

EZPL Programmer's Manual



Programmer's Manual
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Introduction	18
Setup Commands	19
^An - Printing mode	19
^Bx - Set the backward length	19
^Cx - Number of copies per label	20
^D+dddd.hh - Date calculation function	21
^Dx - Number of labels per cut	21
^Ex - Stop position setting	21
^Fname - Download label file to printer	22
^Gn - Enable/disable See-Through sensor	22
^Hx - Print darkness setting	22
^Kname - Recall label format	23
^Lx - The start sign of label format	23
^Mx - Set the forward length	24
^NH,x - Set webpage function ON/OFF	24
^On - Label Dispenser (peel) / Applicator	24
^Px - Number of pages printed	26
^PI - Continuous printing	26
^Qx,y,(z±) - Label length	27
^Rx - Row column adjustment	27
^Sx - Speed setting	28
^T+hhh.mm - Time calculation function	28
^Wx - Label width setting	29
^XGET,CONFIG - Return the configure status	29
^XGET,KEYBOARD-Return the current PS2 Keyboard settings for the applicable region or country via RS-232	30
^XGET,LANGUAGE-Return the current language option used by the LCD	31
^XGET,PRINTNAME-Return the printer model name	31
^XGET,PRINTINFO-Return the current number of cut counters	31
^XGET,RTC-Get Printer setting time- RTC command	32
^XGET,SENSORSTATUS-Get Auto sensing Value	32
^XGET,TPHDOTSTATE-Get TPH Dot status	32
^XGET,TPHRESISTANCE - Dot detect	33
^XGET,TPHRESISTANCE2 - Dot detect	33
^XGET,USBINFO - Return USB-related information	34
^XGET,AUTOLOAD - Return the value of autoloading mode	34
^XSET,ACROSSGAP,n	34
^XSET,ACTIVERESPONSE,n - Active response	35
^XSET,ACTIVEMESSAGE,n - turn on/off auto print error message function	35
^XSET,AHEATSYSTEM,n - Turn on the 600DPI special printing heating system	35
^XSET,ALIAS,string - Printer alias name used for the recognition of each network printer	35
^XSET,AUTOPHTEST,x - AUTO PRINTING SELF TEST PAGE WHEN PRINTER TURNED ON	36
^XSET,BUZZER,n - Set remind buzzer on/off	36
^XSET,CODEPAGE,n - Select Code Page	36
^XSET,DBSEARCH,n - Command needs to use with FILEDB,FIND	36
^XSET,DPIEMULATE,n - Converting DPI format	36
^XSET,ERRORPRINT,n - Set Error Reprint	36
^XSET,FEEDCUT,n - Set The Automatic Cutting Function After Pressing FEED Button	37
^XSET,FEEDTYPE,n - Setup feed function	37
^XSET,FIRSTPAGEGEARCOMP,n - Set the function of offset correction for the first label	37
^XSET,IMMEDIATE,n - Set immediate response on/off	37
^XSET,KEYBOARD,n - Select different area PS2 Keyboard	38
^XSET,LABELSEARCH,n - Keep/ Not Keep Keywords While Recalling The Labels, After Printing	40
^XSET,LCDDATETIMEFORMAT,n - Set The Displayed Format Of LCD Date & Time	40
^XSET,LCDVOLUME,n - Set LCD (For 5" LCD) volume	40
^XSET,LCDLOCK,n - Set whether to lock the LCD	41
^XSET,LENGTHOFFSET,n - Fine-tune label length design value	41
^XSET,LINERLESS,n - Linerless Mode Control	41
^XSET,LOCKCMD,xxxx - Command Lock function, use only hardware modifications set	42
^XSET,PAUSEPRINT,n - Set to pause after printing one page	44
^XSET,PORTACTIVE,l,s,e,u,b - Control The Reception Of Port Active / Inactive	44
^XSET,PROMPTTIME,n - (in the unit of second)	44
^XSET,REALLENGTHPRINT,n - Adjust label length based on label content	45
^XSET,RECALLCRLF,n - Line feed characters include a character in recall label mode	45
^XSET,REWINDER,n - Set Rewinder	45
^XSET,ROTATION,n - Rotate whole label	46
^XSET,SENSING,n - Assign reflect or see-through sensor mode be a detector while using continuous label	47
^XSET,SLASHZERO,n - Slashed zero	47
^XSET,SMARTBACK,n - Smart backfeed	48
^XSET,TOPOFFFORM,n - Top of Form	48
^XSET,UNICODE,n - How to set text encoding	49
^XSET,UNPROMPT,p1 - Automatically acquire variables	49
^XSET,WHENTOSENSING,n - Set up autosensing	49
^XSETCUT,DOCUTTING,1 - Set up cutter to cut once	49
^XSETCUT,DOUBLECUT,x - Double cut	50
^XSETCUT,MODE,n,[m],[p] - Set cutter mode	50
^XSETRTC,ISOWEEKNUM,n - ISO Week	51
^XSETRTC,LANGUAGE,n - Different language layout	52
^XSET,AUTOLOAD,n,[m] - Autoloading mode	53
^XSET,SELFPAGEADD,n - Self-test page print content	53
^Yb,p,d,s - RS232 serial Port communication setting	54
^Z - Reset to factory default settings	54
Control Commands	55
-B - Display the version message	55

~Dm,d,y,h,i,s - Date/Time setting	55
~En,name,size - Download graphic to memory	55
~Fn – Control Printer into Keyboard Mode	55
~G - Graphic mode	55
~H,TTF,Xname,size<CR>data - Download true type font	56
~H,TTF_TABLE,Xname,size<CR>data - Download Unicode Table	56
~Jx - Bit-Mapped font download	56
~Kn – Response function” Y” from RS-232	56
~L,DBASE,x,y - Download dBase III to Printer	56
~L,DBASECSV,x,y - Download CSV to Printer	56
~L,SERIAL,name,data - Download serial file to printer	56
~MCPY,s:o.x,d:o.x – Copy file	57
~MDEL - Format current memory (not include download font- Asian font & TTF)	57
~MDEL* - Format current memory	57
~MDELn,name - Delete specific file from memory	58
~MDIR - Get memory state from printer	58
~MGETF,name -Get Label Format File information	58
~MGETS,name - Get Serial File information	59
~MGETT,name<CR> - Read saved file	59
~MSETT,name<CR>nnnnnnn<data> - Save the .TXT file to printer	59
~MMOV,s:o.x,d:o.x - Move file	60
~Px - Print label	60
~Q±x - Row Offset Adjustment	60
~Rx - Rotate printing	60
~S,CHECK - Status immediate response command	61
~S,DUMP - Enter into DUMP Mode	62
~S,OFFSETa,n - Setup position micro adjustment	62
~S,SENSOR - Auto Sensing	62
~S,n (n = FEED, PAUSE, CANCEL, BUFCLR) - Analogue press control keys	63
~S, ES[p1] – Change printer command language	63
~S,STATUS - Status immediate response command	63
~T - Print head testing	63
~V - Print Self-Test page	63
~X6–Send back printer printed miles through RS-232	65
~X7 -Print database information in memory	66
~X8 -Print serial file information in memory	66
~X9 - Print download TTF information in memory	66
~Z - Reset printer	66
Label formatting commands	67
AUTOFR - Automatic form printing	67
At,x,y,x_mul,y_mul,gap,rotationInverse,data – Text	68
AT,x,y,w,h,g,s,d,m,data - Print built-in true type font	69
ATt,x,y,w,h,g,s,d,m,data - Print downloaded true type font	70
Bt,x,y,narrow,wide,height,rotation,readable,data – Barcode	71
B050,x, y, narrow, wide, height, rotation, readable, c,data–Code11	74
B053, x,y,mul,len,roatae<CR>data - DotCode	77
B5n,x,y,narrow,segment,height,rotation,readable,data - lay out GS1 Databar	78
C#SET,UNPROMPT,x - Disable serial prompt	80
Cx,ys,±value,prompt - Serial number setting	81
E - Terminate label formatting mode and print label	83
FILEDB,OPEN,name - Open database	83
FILEDB,MOVE,n - Move data record	83
FILEDB,FIND,x,y - Searching from database	83
Gwxxx - Graphic command	84
Hx,y,col_count,row_count,col_width,row_width,line_width – Table command drawing	85
La,x,y,x1,y1 - Line command drawing	85
Ls,x,y,n,x1,y1 - Line draw diagonal command	86
Mx,y,sno,nos,mode,ccode,zip,class,rotation,message - Print Maxicode	86
Px,y,w,h,r,c,ec,len,rotation - Print PDF 417	86
PCx,y,w,h,r,c,ec,max_len,rotation - PDF 417 with variable length data	87
PHx,y,w,h,r,c,ec,len,rotation,p1,p2 -Print Macro PDF 417	89
PMx,y,w,h,mode,length,rotation – Micro PDF 417	90
Qx,y,width,height - Pattern command	91
QAx,y,width,height<CR>data - Pattern command with compressed data	91
Rx,y,x1,y1,lrw,ubw – Rectangle drawing	91
Th m s – Internal real-time setting	92
V#ADD,name,size,prompt - Store variable with a name	92
V#ADDCHKSUM,x - Add modulus 10 check code	92
V#ADDCHKSUM43,x - Add modulus 43 check code	93
V#LINKDB,x,y - Like a Variable name for dBase data	93
V#OPx,p1,p2,p3 - Variable calculation	93
V#RENAME,name,x - Variable rename	94
V#SETZERO,Vxx –Adjustment parameters bits with the same as parameter definition	94
V#SET,FLOATFORMAT,X,Y,Vxx - handle the number of decimals	95
V#SET,PROMPTONCE,Vx –only prompt the variable once while printing	95
V#SET,THOUFORMAT,V00ab[c]	96
V#SET,UNPROMPT,x - Disable variable prompt	96
V#STRCPY,x,y - Copy all of variable data	96
V#STRSUB,x,y,first,length - Copy part of Variable value	97
V#STRCUT,x,y,left,right -Discard part of Variable data	97
Vt,x,y,x_mul,y_mul,gap,rotationInverse,data - Print with downloaded character sets	97
Vxx,length,prompt[,jnl][,sab] - Store variable	98
Wx,y,mode,type,ec[v],mask,mul,len,roatae<CR>data - Arrange QR code and Micro QR Code	98
XRxBx,y,enlarge,rotation[Saaabbb],length<CR>data - Arrange DataMatrix Code	99

XRBx,y,enlarge,rotationR,length<CR>data - Arrange Rectangular DataMatrix Code.....	99
Yx,y,name – Graphics file	99
Zx,y,a,b,c,d,e,n<CR>data – Print Aztec Bar Code.....	100
LAN Set Commands.....	101
^NA,function[,p1] – setup SMTP	101
^NL[,TrapIP,Community] – setup SNMP	101
^NL,ENABLE,n –enable or disable SNMP	101
^NR[,p[,ei[,sw]]] –setup LAN response	102
^NMACADDR[,addr] –setup or get MAC address information.....	102
^NS[a,b,c,d,e,f,g,h,l] –Set and request for NET connection parameters	102
^NW,BICONSHOW,n –Set The Display of Bluetooth Icon of LCD Main Menu.....	103
Bluetooth Set Commands (7).....	104
^NW,BINFO– Detect Bluetooth MAC Address.....	104
^NW,BVERSION –Detect Bluetooth module firmware version	104
^NW,BNICKNAME,a –Change Bluetooth module printer model name	105
^NW,BPINCODE,a – Change Bluetooth module pairing password.....	106
^NW,BSSP,a – Enable / disable Bluetooth module pairing password input function	106
^NW,BBAUD,N –Change Bluetooth module communication baud rate	106
^NW,BAUTOCONNECT,aaaaaaaaaa,b,c –Turn on/off the Bluetooth automatic connection device function.....	107
Wi-Fi Set Commands (5).....	108
^NW,WVERSION – Detect WiFi moduel firmware version	108
^NW,WSETAPSEARCH–Enable WiFi searching nearby AP status function	108
^NW,WSETDV–Go back to WiFi default	109
^NW,WSETRT–Set WiFi Roaming threshold.....	110
^NW,WGETRT–Get WiFi Roaming threshold.....	110
^NW,WSETROAMING,n,sec– Set Mobile printer WiFi roaming function and time	111
^NW,WSETTYPE– Set WiFi module operation mode.....	112
^NW,WGETTYPE– Get WiFi module operation mode.....	112
^NW,WSETMAE– Enable or disable WiFi module.....	112
^NW,WSETSCAN–Execute WiFi to search nearby AP function	113
External Card Set Commands (1).....	115
^XSET,EXTERNCARDMODE,n –Set external card mode.....	115
Appendix.....	116
I. Barcode Samples	116
II. Command Examples	124
Revision History	139

Introduction

About EZPL

The EZPL (EZ Programming Language) is a high-level label definition and printer control language.

Features of EZPL are as follows:

1. The data are stored to be processed and will not be printed out until the last printing instruction is received.
2. All the printing contents can be rotated.
3. Images can be downloaded and stored.

There are two ways to send printing commands to the printer. One is sending through the command window of (GoLabel or QLabel), the other is sending through Windows™ HyperTerminal™ via RS-232 port.

The EZPL language consists of three types of commands:

- ◆ **Setup commands** – It includes printer control instructions, configuration instructions and image downloading instructions.
- ◆ **Control commands** – It includes commands that can control the printer to take action immediately, such as cleaning memory, feeding label.
- ◆ **Label Format commands** - Define the format of data that will be presented on the label, such as Line, Rectangle, Barcode, Text and image.

Rules and syntax

EZPL commands include parameter strings associated with them:

1. The syntax of commands contains capital letters as the ID for each function.
2. The lower case letters in command represent parameters.
3. Control and Setup commands use the tilde (~) and caret (^) as prefix.
4. Label Format commands have no prefix.
5. The comma (,) is the delimiter to separate each parameter, and the CR (Carriage Return) signifies the end of every command.

Example: In “~En,name,size” command, “E” is an identity letter of this image downloading command; “n”, “name” and “size” are three parameters.

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Setup Commands

^An - Printing mode

Syntax	^An
Parameter	n = D, Direct thermal mode, the ribbon out sensor is disabled. n = T, Thermal transfer mode, the ribbon out sensor is enabled.
Description	<ol style="list-style-type: none"> 1. If you want to change the print mode, you need to send the printing command to the printer for changing print mode setting. There are two ways to send printing commands to the printer. One is sending through the command window of (GoLabel or QLabel), the other is sending through Windows™ HyperTerminal™ via RS-232 port. To send printing command, make sure that the printer is on standby mode (LED light is green) and send below command to change the print mode. 2. Send "^AD" command to printer to change the print mode to Direct Thermal Mode. 3. Send "^AT" command to printer to change the print mode to Thermal Transfer Mode. When printer is on Thermal Transfer Mode, it is necessary to install the ribbon into printer. Otherwise the error message "Print Mode Error" will be triggered and the printer will not be able to print. <p>* Note: this command will not be applied on Direct Thermal only models.</p>
Example	<pre>^AD ^L E</pre>

^Bx - Set the backward length

Syntax	^Bx				
Parameter	x = 1~1000 (unit: mm)				
Description	<p>Set the backward length to move the position of paper.</p> <p>In progress</p> <p>If ~S,CHECK will feedback 00</p> <p>If ~Z printer would turn on immediately</p> <p>If Dooropen → RED light would up and motor would stop at the same time even after printer cover close.</p>				
Example	<p>Result :</p> <table border="1"> <tr> <td>PC to Printer</td> <td>^B1000</td> </tr> <tr> <td>Printer to action</td> <td>Motor would turn backwards 1000mm</td> </tr> </table>	PC to Printer	^B1000	Printer to action	Motor would turn backwards 1000mm
PC to Printer	^B1000				
Printer to action	Motor would turn backwards 1000mm				

^Cx -Number of copies per label

Syntax	^Cx	
Effect & Default	Permanent , default = ^C1	
Parameter is not valid	Parameter is not processed.	
Parameter	x = 1 ~ 32767 (Number of copies) x = ^Vnn (with variable)	
Description	Set the number of copies to print for a label. Match with command ^Px or ~Px ; If you input the command ^C2 ^P3, the printer will print 6 pieces labels. If you input the command ^C3 ~P3, the printer will printer 9 pieces labels.	
Example	<p>Send command :</p> <pre> ^C2 ^P3 ^L C0,001,+1,Prompt AE,10,10,1,1,0,0,^C0 E </pre> <p>Example 2:</p> <pre> ^Flabel1 ^Q40,0,0 ^C^V00 ^PA1 ^L C0,0000001,+1,Counter V00,15,Variable AF,108,140,1,1,0,0,^C0 AE,122,278,1,1,0,0,^V00 E </pre> <p>^Klabel1 00001 3 E</p>	<p>Print result :</p> <pre> 001 001 002 002 003 003 </pre> <p>00001 00001 00001</p> <p>Printer will auto print 3 pieces.</p>

^D+dddd.hh - Date calculation function

Syntax	^D+dddd.hh	
Parameter	dddd = days in 4 digits. Set how many days to be added to the current date. hh = hours in 2 digits. Set how many hours to be added to the current time.	
Description	This command will set the specified days and hours forward based on the printer's current date then print it.	
Example	<p>In this sample, the printer will print current time and count the date that is 5 days and 12 hours after current time.</p> <p>Send command :</p> <pre> ^Q40,0,0 ^W102 ^AT ^L Dy2-me-dd Th:m:s ~D01,01,05,12,00,00 AD,72,96,1,1,0,0,Manufactured Date: ^D ^T AD,72,190,1,1,0,0,Expiration Date: ^D+0005.12 E </pre>	<p>Print result :</p> <p>Manufactured Date: 05-JAN-01 12:00</p> <p>Expire Date: 05-JAN-07</p>

^Dx - Number of labels per cut

Syntax	^Dx	
Parameter	x = 0, disable the cutting. x = 1 ~ 32767, number of label per cut.	
Example	<p>Send command :</p> <pre> ^Q20,0,0 ^P6 ^D2 ^L E </pre> <p>Print result :</p> <p>^P6 = print 6 labels, ^D2 = cut once every 2 labels. It will cut 3 times in this case.</p> <p>Note : The last label will be cut anyway. For example, if send command ^P5 ^D2, it will cut 3 times as well.</p>	

^Ex - Stop position setting

Syntax	^Ex	
Parameter	x = 0~40 (unit: mm)	
Description	Feed the paper to specific stop position.	
Example	<pre> ^E12 ^L E </pre>	

^Fname - Download label file to printer

Syntax	^Fname data
Parameter	name = the name of label format (up to 20 characters) data = the data containing the label formatting command for this stored format
Description	<p>Download label file to the memory of printer. After the download is completed, the printer will beep once (refer to page82).</p> <div style="text-align: center;"> <p>^Fname</p> <pre> data { : : : ^L : : : E } </pre> <p>} Control/Setup command</p> <p>} Label format command</p> </div> <p>Duplicate name inspection: If you use the same file name, the printer will print "REPEAT FILE NAME", and the format will not be stored to the memory.</p>
Example	To see ^Kname Example

^Gn - Enable/disable See-Through sensor

Syntax	^Gn
Parameter	n = 0, disable see-through sensor n = 1, enable see-through sensor n = 2, Auto-mode
Description	<p>There are two types of sensor in printer: Reflective Sensor and See-through Sensor. Users can set one of them as active sensor. By default, the sensor setting is set on Auto-mode. However, sometimes the sensor may not be able to detect the label gap on special label materials. Then it would be necessary to change the sensor setting to other sensor. For example, when printing on labels with thick liner, colored liner or back graphics, the see-through sensor would need to be enabled since the reflective sensor may not work correctly.</p> <p>To switch between different sensors, please do as follows:</p> <ol style="list-style-type: none"> 1. Make sure that the printer is on standby mode (LED light is green) and send below command to change the sensor setting. 2. Send "^G0" command to printer to set the Reflective Sensor as active sensor. 3. Send "^G1" command to printer to set the See-through Sensor as active sensor. 4. Send "^G2" command to printer to change the sensor setting to Auto-mode. <p>*For the EZ-1000Plus series, EZ-DT series, EZ-1105 / EZ-1305 and EZPi-1000 series models, if the see-through sensor is enabled, the moveable Label Sensor must be placed in the center of the printer.</p>

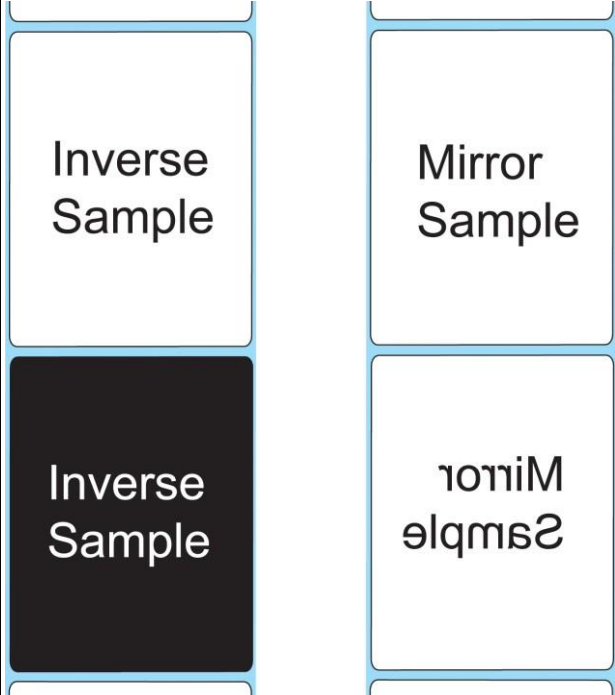
^Hx - Print darkness setting

Syntax	^Hx
Parameter	x = 00 ~ 19
Description	Set the darkness of printing.
Example	^H10 ^L E

^Kname - Recall label format

Syntax	^Kname
Parameter	name = the name of recalled label format (up to 20 characters)
Description	Recall a label format stored in printer's memory (refer to page82) ^Kname : } data : : E : } Control/Setup command [option] : : ~Px

^Lx - The start sign of label format

Syntax	^Lx
Parameter	Use ^L to do normal printing; ^LI to do inverse printing; ^LM to do Mirror printing. ^LRn Whole label rotation n=0, 0°printing ; n=1, 90°printing ; n=2, 180°printing ; n=3, 270°printing (the same as ^XSET,ROTATION,n) I , M , R can be used at the same time.
Description	Define the start sign of Label format. Commands to set up the label format should be listed after ^Lx command. When rotates whole label (^Q & ^W will be the reference point), it will only handle 50 mm if set ^W50. This command will not affect by ^R.
Sample	

^Mx - Set the forward length

Syntax	^Mx		
Parameter	x = 1~1000 (unit: mm)		
Description	Set the forward length to move the position of paper. In progress If ~S,CHECK will feedback 00 If ~Z printer would turn on immediately If Dooropen → RED light would up and motor would stop at the same time even after printer cover close.		
Example	Result:	PC to Printer	^M100
		Printer to action	co-rotating 100mm

^NH,x – Set webpage function ON/OFF

Syntax	^NH,n
Effect & default	temporary
Parameter is not valid	Parameter is not processed.
Parameter	x = 0 , webpage function OFF x = 1 ,webpage function ON (default)
Description	This command can set webpage function on/off
Example	None

^On - Label Dispenser (peel) / Applicator

Syntax	^On
Parameter	n = 0 , disable the Label Dispenser and Applicator n = 1 , enable the Label Dispenser, disable the Applicator n = 2 , enable the applicator, disable the Label Dispenser (applied on EZ-2000Plus / EZ-6000Plus only) (Please check with dealer whether your printer supports this function or not.)
Description	Enable or disable the Label Dispenser / Applicator. When you use this command, it should be matched with ^Ex for setting the stop position. (For the Label Dispenser setting, please refer to page78)
Example	^O1 ^L E

^PAx -Auto Print

Syntax	^PAx	
Effect & default	temporary	
Parameter is not valid	Parameter is not processed.	
Parameter	x = 1~30000 (Number of copies , If you input "0",the command will be ^PA1 .) x =^Vnn (with variable)	
Description	After the recall of label, printer will read variables and Serial Number and then print automatically for the number of copies that has been set.	
Example	<p>Send command :</p> <pre> ^Flabel1 ^Q40,0,0 ^PA3 ^L C0,0000001,+1,Counter V00,15,Variable AF,108,140,1,1,0,0,^C0 AE,122,278,1,1,0,0,^V00 E </pre> <p>^Klabel1 00001 Variable E</p> <p>Example2: ^Flabel1 ^Q40,0,0 ^PA^V00 ^L C0,0000001,+1,Counter V00,15,Variable AF,108,140,1,1,0,0,^C0 E</p> <p>^Klabel1 00001 3 E</p>	<p>Printer result :</p> <pre> 00001 Variable 00002 Variable 00003 Variable Printer will auto print 3 pieces. Printer will skip serial number. 00001 00002 00003 Printer will auto print 3 pieces Printer will skip serial number </pre>

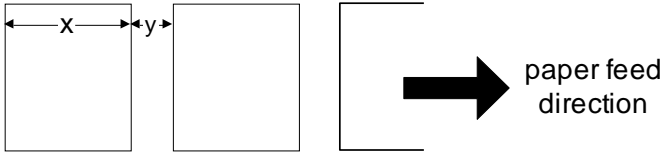
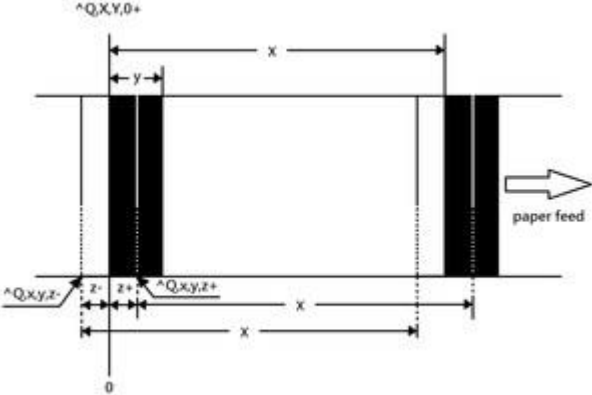
^Px - Number of pages printed

Syntax	^Px	
Parameter	x = 1 ~ 32767	
Description	Set the amount of copies for a printing. The Serial Number will be reset for each time the command is implemented.	
Example	Send command : ^Q40,0,0 ^P3 ^L AF,108,140,1,1,0,0,Test E	00001 Variable 00002 Variable 00003 Variable Printer will auto print 3 pieces.

^PI - Continuous printing

Syntax	^PI	
Parameter	None	
Description	Printer will print immediately, until the "Cancel" key is pressed or the printer is turned off. It can be paused by pressing "Pause" key otherwise printer would be keep going printing.	
Example	^Flabel2 ^Q40,0,0 ^PI ^L C0,000001,+1,Counter V00,15,Product AF,108,140,1,1,0,0,^C0 AE,122,278,1,1,0,0,^V00 E ^Klabel2 00001 Apple E	<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> . . . 000003 Apple 000002 Apple 000001 Apple </div>

^Qx,y(z±) - Label length

yntax	^Qx,y(z±)
Parameter	Gap label: (See fig. 1) x = Label length (unit: mm) y = Gap length (unit: mm)
EX.	 <p>^Q25,3 (x=25,y=3) mm</p> <p>Figure 1</p>
	Plain paper: x = Label length (unit: mm) y = 0 (constant) z = Feed paper length (unit: mm)
	Black mark label: x = Label length (unit: mm) y = Black mark width (unit: mm) z = Black line to top of form position. z+: When the position is outside the black mark. z-: When the position is within the black mark.
EX.	 <p>^Q25,4,3+ (x=25, y=4, z=3+) mm</p> <p>^Q25,4,3- (x=25, y=4, z=3-) mm</p>
Description	Set label size (length, gap length, [plain paper feed length])

^Rx - Row column adjustment

Syntax	^Rx
Parameter	x = 0 ~ 399 dots
Description	Set left margin
Example	^R08 (move right 1mm) ^L E

^Sx - Speed setting

Syntax	^Sx
Parameter	x = 2 to 7 inch/sec ; 2 to 6 inch/sec ; 2 to 4 inch/sec ; 2 to 3 inch/sec
Description	Set printing speed S2 = 50.8 mm/s S3 = 76.2 mm/s S4 = 101.6 mm/s S5 = 127.0 mm/s S6 = 152.4 mm/s S7 = 177.8 mm/s In addition , special case S1 = 38.1 mm/s (To base on customer demanded)
Example	^S4 ^L E

^T+hhh.mm - Time calculation function

Syntax	^T+hhh.mm
Parameter	hhh = hours in 3 digits (from 0 to 23 hours). Set how many hours to be added to the current time. mm = minutes in 2 digits. Set how many minutes to be added to the current time.
Description	This command will set the specified time forward based on the printer's current time then print it.
Example	In this sample, the printer will print current time and count the date that is 5 days and 12 hours after current time. ^Q100,3 ^W171 ^H10 ^P1 ^S4 ^AT ^C1 ^R0 ~Q+0 ^O0 ^D0 ^E14 ~R200 ^L Dy4-me-dd Th:m:s AD,90,154,1,1,0,0,Manufactured Day :^D ^T AD,90,248,1,1,0,0,Expiration Day :^D+0005.00 AD,90,324,1,1,0,0,Expiration Time: ^T+012.00 E Manufactured Day : 2005-JAN-19 02:41:03 Expiration Day : 2005-JAN-24 Expiration Time : 14:41:03

^Wx - Label width setting

Syntax	^Wx
Parameter	x = label width (unit: mm), the input range is defined by the specification of printer models.
Description	Label width setting
Example	^W100 ^L E

^XGET,CONFIG - Return the configure status

Syntax	^XGET,CONFIG																																																		
Parameter	None																																																		
Description	<p>The printer will return configure status (the content is same as Self Test page) from RS232 or USB and display it on Hyper Terminal. Send the self-test page back from the port it was sent from, whether it was sent from RS-232 or USB.</p> <p>Network Parameters Explanation WLAN ON-LINE[RSSI] RSSI represents the signal strength of the currently connected AP.</p> <table border="1"> <thead> <tr> <th>RSSI strength</th> <th>Significance</th> </tr> </thead> <tbody> <tr> <td>RSSI >= -60</td> <td>Good signal strength</td> </tr> <tr> <td>-60 > RSSI >= -70</td> <td>Fair signal strength</td> </tr> <tr> <td>-70 > RSSI >= -80</td> <td>Poor signal strength</td> </tr> <tr> <td>-80 < RSSI</td> <td>Very poor signal strength</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Network Status Description</th> <th>Significance</th> </tr> </thead> <tbody> <tr> <td>WLAN CARD UNKNOWN</td> <td>The printer detected the WLAN card, but failed in handshaking process. Note: For MX series, if the module function is disabled, this message may also appear.</td> </tr> <tr> <td>WLAN OFF-LINE</td> <td>Wi-Fi module has been detected, but it is not connected to the AP.</td> </tr> <tr> <td>WLAN ON-LINE</td> <td>Wi-Fi module has connected to the AP.</td> </tr> <tr> <td>LAN ON-LINE</td> <td>No Wi-Fi module detected, and LAN is detected.</td> </tr> <tr> <td>LAN OFF-LINE</td> <td>Not detecting Wi-Fi module and LAN function is disabled.</td> </tr> <tr> <td>Cable Not Plug</td> <td>No Wi-Fi module or LAN is detected.</td> </tr> </tbody> </table> <p>Card Status Description:</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Significance</th> </tr> </thead> <tbody> <tr> <td>KS</td> <td>KCodes network card</td> </tr> <tr> <td>GS</td> <td>GainSpan network card</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Status</th> <th>Significance</th> </tr> </thead> <tbody> <tr> <td>Card Status: HW Unable to detect any card</td> <td>No card detected Note: If the module function is disabled on MX series, it will also show this message.</td> </tr> <tr> <td>Card Status: BT card detected[0x00]</td> <td>Bluetooth card has been detected and handshake has been successfully (old version circuit).</td> </tr> <tr> <td>Card Status: BT card handshakes fail[0x00]</td> <td>Bluetooth card has been detected, but handshake failed (old circuit).</td> </tr> <tr> <td>Card Status: BT card handshaking[0x00]</td> <td>Bluetooth card has been detected and currently in Handshaking with Bluetooth (old circuit).</td> </tr> <tr> <td>Card Status: Wi-Fi card detected[0x00]</td> <td>Wi-Fi card has been detected and Handshake succeeded (old circuit)</td> </tr> <tr> <td>Card Status: Wi-Fi card handshaking[0x00]</td> <td>Wi-Fi card has been detected and still in Wi-Fi Handshaking (old circuit)</td> </tr> <tr> <td>Card Status: BT card detected[0x01]</td> <td>Bluetooth card has been detected and handshake is successful(new circuit).</td> </tr> <tr> <td>Card Status: Wi-Fi card detected[0x01]</td> <td>Wi-Fi card has been detected and handshake successful (New circuit)</td> </tr> <tr> <td>Card Status: Wi-Fi card</td> <td>Wi-Fi card has been detected and still in Wi-Fi</td> </tr> </tbody> </table>	RSSI strength	Significance	RSSI >= -60	Good signal strength	-60 > RSSI >= -70	Fair signal strength	-70 > RSSI >= -80	Poor signal strength	-80 < RSSI	Very poor signal strength	Network Status Description	Significance	WLAN CARD UNKNOWN	The printer detected the WLAN card, but failed in handshaking process. 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	handshaking[0x01]	Handshaking (old circuit)
	Card Status: BT card handshaking[0x01]	Bluetooth card has been detected and still in the process of Bluetooth handshaking (new circuit).
Example	The test transmission process is as follows :	
	PC to Printer	<pre> ^XGET,CONFIG ^xget,config RT730W V2.006 USB S/N: 20140310 Serial port: 96,N,8,1 MAC: 00 11 E5 05 5B 1B IP 0.0.0.0 (DHCP) Gateway 192.168.0.254 Sub-Mask 255.255.255.0 Card Status: KS Wi-Fi card detected[0x01] Network: WLAN OFF-LINE PORT State L S E U B 1 1 1 1 1 Printer to PC ##### 0000 FORM(S) IN MEMORY 0000 GRAPHIC(S) IN MEMORY 000 FONT(S) IN MEMORY 000 ASIAN FONT(S) IN MEMORY 000 DATABASE(S) IN MEMORY 000 TTF(S) IN MEMORY 63980 KB FREE MEMORY ^S4 ^H10 ^R000 ^R200 ^Q+0 ^W68 ^Q66,2 ^E0 Option: ^D0 ^00 ^AT Ref.: 2.7 2.8 2.8 [0.1_9] Code Page: 850 </pre>

^XGET,KEYBOARD—Return the current PS2 Keyboard settings for the applicable region or country via RS-232.

Syntax	^XGET,KEYBOARD	
Parameter	None	
Description	This command returns the PS2 Keyboard settings of the currently applicable region or country for the printer (only applicable to models with an LCD). This command is only valid for transmission via RS-232 port. The returned value is only a code, and for more information, please refer to the explanation of ^XSET,KEYBOARD,n	
Example	The test transmission process is as follows :	
	PC to Printer	^XGET,KEYBOARD
	Printer to PC	0
	0 : 表示現在適用美國的 PS2 keyboard	

^XGET,LANGUAGE–Return the current language option used by the LCD.

Syntax	^XGET,LANGUAGE	
Parameter	None	
Description	This command returns the current language option used by the LCD of the printer (only applicable to models with an LCD). The returned value is a code, for detailed information please refer to the ^XSET,LANGUAGE,n	
Example	The test transmission process is as follows :	
	PC to Printer	^XGET,LANGUAGE
	Printer to PC	0
0: Indicates that the LCD is currently using the English language.		

^XGET,PRINTNAME–Return the printer model name

Syntax	^XGET,PRINTNAME	
Parameter	None	
Description	Return the printer model name	
Example	The test transmission process is as follows :	
	PC to Printer	^XGET,PRINTNAME
	Printer to PC	ZX1300i

^XGET,PRINTINFO–Return the current number of cut counters

Syntax	^XGET,PRINTINFO	
Parameter	None	
Description	This command is used to read the cut counter times	
Example	The test transmission process is as follows :	
	PC to Printer	^XGET,PRINTINFO
	Printer to PC	Cutter Counter: 0
0: Indicates the current cut counter times		

^XGET,RTC–Get Printer setting time– RTC command

Syntax	^XGET,RTC	
Parameter	None	
Description	Return the current RTC setting value of the printer.	
Example	The testing process for transmission is as follows:	
	PC to Printer	^XGET,RTC
	Printer to PC	1109101747512
	11: Represents November. 09: Represents the 9th day. 10: Represents the year 2010. 17: Represents 17 o'clock (5 PM). 47: Represents 47 minutes. 51: Represents 51 seconds. 2: Represents Tuesday.	

^XGET,SENSORSTATUS–Get Auto sensing Value

Syntax	^XGET,SENSORSTATUS	
Parameter	None	
Description	Return the value of AUTO SENSING.	
Example	The testing process for transmission is as follows:	
	PC to Printer	^XGET,SENSORSTATUS
	Printer to PC	===== Sensor Length(EEPROM)=250 mm(250) Detect Scale(EEPROM)=3 mm(3) Sensor percent(EEPROM)=40(40) PRINT Detect Gap =3 dot =====

^XGET,TPHDOTSTATE–Get TPH Dot status

Syntax	^XGET,TPHDOTSTATE	
Parameter	None	
Description	Return the total number of dots, the number of bad dots and average impedance of the print head. If it is a model without ADC (Analog-to-Digital Converter), the average resistance will be indicated as "None". This command has the same functionality as "TPHRESISTANCE2".	
Example	The testing process for transmission is as follows:	
	PC to Printer	^XGET,TPHDOTSTATE
	Printer to PC	Test Printer head resistance, Please wait... Test end. Total Dot: 864 Bad Dot: 0 Average Resistance: None

^XGET,TPHRESISTANCE - Dot detect

Syntax	^XGET,TPHRESISTANCE
Parameter	None
Description	Detect the resistance of each heat dot to check if there is any bad dot on thermal print head.
Example	<pre> R0841 = 1039 R0842 = 1039 R0843 = 1039 R0844 = 1048 R0845 = 1043 R0846 = 1043 R0847 = 1043 R0848 = 1048 R0849 = 1043 R0850 = 1048 R0851 = 1043 R0852 = 1048 R0853 = 1043 R0854 = 1043 R0855 = 1048 R0856 = 1043 R0857 = 1048 R0858 = 1052 R0859 = 1048 R0860 = 1048 R0861 = 1048 R0862 = 1048 R0863 = 1048 R0864 = 1048 Test end. Total Dot : 0864 Bad Dot : 0000 Average Resistance: 1048 </pre>

^XGET,TPHRESISTANCE2 - Dot detect

Syntax	^XGET,TPHRESISTANCE2						
Parameter	None						
Description	Return the total number of TPH dots, the number of bad dots, and the average impedance of the print head. If there is no ADC model, Average Resistance = None. This command has the same function as ^XGET, TPHDOTSTATE.						
Example	<p>The testing process for transmission is as follows:</p> <table border="1"> <tr> <td>PC to Printer</td> <td>^XGET,TPHRESISTANCE2</td> </tr> <tr> <td></td> <td>Test Printer head resistance,Please wait.. Test end.</td> </tr> <tr> <td>Printer to PC</td> <td>Total Dot: 864 (Different values may be obtained depending on the dot density of the TPH.) Bad Dot: 0 Average Resistance: None</td> </tr> </table>	PC to Printer	^XGET,TPHRESISTANCE2		Test Printer head resistance,Please wait.. Test end.	Printer to PC	Total Dot: 864 (Different values may be obtained depending on the dot density of the TPH.) Bad Dot: 0 Average Resistance: None
PC to Printer	^XGET,TPHRESISTANCE2						
	Test Printer head resistance,Please wait.. Test end.						
Printer to PC	Total Dot: 864 (Different values may be obtained depending on the dot density of the TPH.) Bad Dot: 0 Average Resistance: None						

^XGET,USBINFO – Return USB-related information.

Syntax	^XGET,USBINFO
Parameter	None
Description	Return USB-related information.
Example	<pre>^XGET,USBINFO USB Device: PluginCnt : 1 SPEED : HIGH[0x1] USB Host: SPEED: FULL[0xff] Power[0xff]</pre>

^XGET,AUTOLOAD – Return the value of autoload mode.

Syntax	^XGET,AUTOLOAD
Parameter	None
Description	Return the value of autoload mode.
Example	<pre>^XGET,AUTOLOAD Autoload mode:1</pre> <p>Autoload mode: 0 (Disable automatic paper-feeding mode.) Autoload mode: 1 (Enable automatic paper-feeding mode.)</p>

^XSET,ACROSSGAP,n

Syntax	^XSET,ACROSSGAP,n
Effect & default	Permanent , default = 0
Parameter is not valid	Parameter is not processed.
Parameter	None
Description	<p>This command enables the printer to support the function of printing across multiple labels, where any GAP encountered during the printing process will be ignored.</p> <p>If the label size is 100mm but the print layout is 200mm, this command can be used. If this command is not used, the printer will automatically cut off any screen larger than 100mm when encountering a GAP and will not print it.</p> <p>When this function is enabled, if an incorrect label size is encountered (remainder of label length/actuality print length > 8mm), it may trigger an integer multiple page positioning (>4~7mm) and may cause incorrect page jumping. Please use with caution.</p>
Example	<p>If the label size is 102(W) * 100(L) * GAP 3 mm, but the print area is 102(W) * 200(L), the settings should be as follows:</p> <pre>^SET,ACROSSGAP,1 ^Q203,3 (The length of the cross-page printing should include the GAP as well) ^W102 ^L E</pre>

^XSET,ACTIVERESPONSE,n - Active response

Syntax	^XSET,ACTIVERESPONSE,n							
Parameter	n = 0, do not return the "ERRORxx" message to PC n = 1, return the error message (default). When door open, ribbon out... or other error occur, the printer will return the "ERRORxx" message to PC							
Description	Set the Active Response function on/off. The error code includes: 01 – Paper out 02 – Paper jam or missing gap 03 – Ribbon out 04 – Print head is up 05 – Rewinder full 06 – Memory is full 07 – Filename can not be found 08 – Filename duplicate 09 – Syntax error 10 – Cutter JAM 11 – CF Card not found *Note: before turning on the error code response function, the "Set immediate response" function should be turned on (send "^XSET,IMMEDIATE,1" to printer).							
Example	Procedure : <table border="1" style="margin-left: 20px;"> <tr> <td>PC to Printer</td> <td>^XSET,ACTIVERESPONSE,1</td> </tr> <tr> <td>Printer action</td> <td>Door open</td> </tr> <tr> <td>Printer to PC</td> <td>ERROR04</td> </tr> </table> ERROR04 is means Door open		PC to Printer	^XSET,ACTIVERESPONSE,1	Printer action	Door open	Printer to PC	ERROR04
PC to Printer	^XSET,ACTIVERESPONSE,1							
Printer action	Door open							
Printer to PC	ERROR04							

^XSET,ACTIVEMESSAGE,n - turn on/off auto print error message function

Syntax	^XSET,ACTIVEMESSAGE,n	
Parameter	n = 0, disable ; = 1, enable this function.	
Description	It will print error message while below error occurred: <ul style="list-style-type: none"> ● File System Full ● File Name Not Found ● Duplicate Name ● Command Not Recognized ● Extended Memory Not Found 	

^XSET,AHEATSYSTEM,n – Turn on the 600DPI special printing heating system.

Syntax	^XSET,AHEATSYSTEM,n	
Parameter	n: 0 : OFF 1 : ON	
Description	Turn on the 600DPI special printing heating system, which is permanently effective. Currently, only ARM9 600DPI supports this feature. The RTC can only be set successfully after 2022 (inclusive). The last configuration status will not be changed when restoring factory settings.	
Example	^XSET,AHEATSYSTEM, (Return the configuration status without parameters.) ^XSET,AHEATSYSTEM,0 ^XSET,AHEATSYSTEM,1	

^XSET,ALIAS,string - Printer alias name used for the recognition of each network printer

Syntax	^XSET,ALIAS,string	
Effect & default	Permanent	
Parameter	Length<16Byte If does not input "string", it will response the existing setting in printer.	
Description	Setup printer alias name to recognize each printer under network.	

^XSET,AUTOTPHTEST,x - AUTO PRINTING SELF TEST PAGE WHEN PRINTER TURNED ON

Syntax	^XSET,AUTOTPHTEST,x
Parameter	x = 0 disable , = 1 enable this function
Description	Set Enable. Printer would be auto printing self-test page when turn on printer (example refer to ~T command)

^XSET,BUZZER,n - Set remind buzzer on/off

Syntax	^XSET,BUZZER,n
Parameter	n = 0, remind buzzer function off n = 1, remind buzzer function on
Description	This command can set printer remind buzzer on/off. When download graphic or font, printer will beep once. And use this command can turn off the remind buzzer function. But it can't set error buzzer on/off.

^XSET,CODEPAGE,n - Select Code Page

Syntax	^XSET,CODEPAGE,n		
Parameter	n=0, CODEPAGE 850 n=3, CODEPAGE 860 n=6, CODEPAGE 857 n=9, CODEPAGE 855 n=12, CODEPAGE 851 n=15, WINDOWS 1250 n=18, WINDOWS 1254	n=1, CODEPAGE 852 n=4, CODEPAGE 863 n=7, CODEPAGE 861 n=10, CODEPAGE 866 n=13, CODEPAGE 869 n=16, WINDOWS 1251 n=19, WINDOWS 1255	n=2, CODEPAGE 437 n=5, CODEPAGE 865 n=8, CODEPAGE 862 n=11, CODEPAGE 737 n=14, WINDOWS 1252 n=17, WINDOWS 1253 n=20, WINDOWS 1257
Description	Set the code page.		

^XSET,DBSEARCH,n - Command needs to use with FILEDB,FIND.

Syntax	^XSET,DBSEARCH,[0 or 1]
effect & default	Permanent › Reset the printer does not affect the parameter.
Parameter is not valid	Parameter is not processed.
Parameter	n=0 Disable the search function, complete data needed to be inserted for comparison. n=1 The input is not case-sensitive, list all the data with the same beginning letter. n=2 List all the data and able (LCD or Keyboard) to choose left or right. N=3 There is no search function, and an error message will occur when the database cannot find a match.
Description	Note •(n=3) Works with firmware version V1.130s(220415-01) and V2.110p(220415-01)or later.

^XSET,DPIEMULATE,n - Converting DPI format.

Syntax	^XSET,DPIEMULATE,n
effect & default	Permanent › Change to the original DPI when the printer is reset.
Parameter is not valid	Parameter is not processed.
Parameter	n = 150, 200, 300, 600 • 600 DPI can emulate 300,200,150 DPI resolutions • 300 DPI can emulate 150 DPI resolution
Description	

^XSET,ERRORPRINT,n - Set Error Reprint

Syntax	^XSET,ERRORPRINT,n
Parameter	n = 0 , after ERROR relieved, print the error label again and keeps printing. n = 1 , after ERROR relieved, will not print error label again and keeps printing. n = 2 , after ERROR relieved , cancel print job.
Description	Setup the process when error occurred.

^XSET,FEEDCUT,n – Set The Automatic Cutting Function After Pressing FEED Button

Syntax	^XSET,FEEDCUT,n
Parameter	n = 1 : when press feed key, printer will feed then cut label (cutter should be enable). When uses continuous paper, the feed distance will be one label. n = 0 : when press feed key, printer will not cut label (cutter function enable). When uses continuous paper, printer will stop feed paper while release feed key
Description	Setup the process when error occurred.
Example	None

^XSET,FEEDTYPE,n - Setup feed function

Syntax	^XSET,FEEDTYPE,n
Parameter	n=0, Press FEED key. Printer will be printing a blank label in standby mode. n=1, Press FEED key. Printer will be printing a previous one label in standby mode. n=2, Press FEED key. None function in standby mode.
Description	Setup feed function

^XSET,FIRSTPAGEGEARCOMP,n – Set the function of offset correction for the first label

Syntax	^XSET,FIRSTPAGEGEARCOMP,n
Parameter	n=0 ~ 255, (in dots) default = 12
Description	Set the function of offset correction for the first label
Example	None

^XSET,IMMEDIATE,n - Set immediate response on/off

Syntax	^XSET,IMMEDIATE,n
Parameter	n = 0, set immediate response function off (default) n = 1, set immediate response function on
Description	This command can set printer's immediate response function on/off. To implement commands that related to immediate response, the function should be turned on.

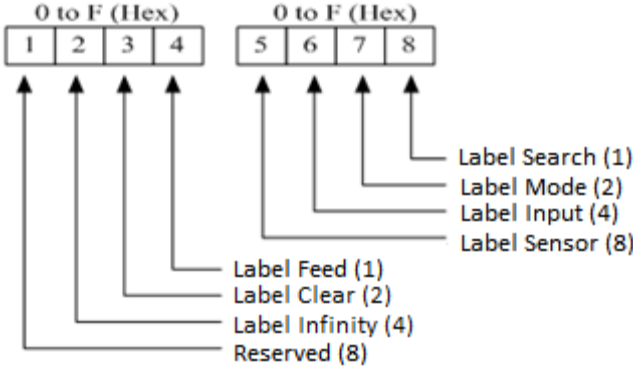
^XSET,KEYBOARD,n -Select different area PS2 Keyboard

Syntax	^XSET,KEYBOARD,n	
effect & default	permanent , default = 0	
Parameter is not valid	Parameter is not processed.	
Parameter	n = 0 - US , 1 - UK , 2 - French , 3 - German , 4 - Spanish , 5 - Italian , 6 – Finnish , 7 - Dutch 8 – Belgian , 9 – Russian, 10 – Norwegian , 11 – Icelandic , 12 – Swedish,13 – Greek, 14– CZECH, 15 – POLISH	
Description	Change the area setting of keyboard mode. * Note: this command is only applied on printer models that support keyboard mode.	
Example	Examination of Transmitting procedure:	
	PC to Printer	^XSET,KEYBOARD,3
	PC to Printer	^XGET,KEYBOARD
	Printer to PC	3
3 :Support German's PS2keyboard		

^XSET,KEYBOARDMODE,n – Detecting the connection status of keyboard (Only supports on LCD models)

Syntax	^XSET,KEYBOARDMODE,n	
effect & default	Permanent , default = 0	
Parameter is not valid	Parameter is not processed.	
Parameter	n = 0 : printer asks in the display 1 : automatically switch to recall Label Format 2 : nothing happens until customer press F1 Key 3 : automatically switch to recall Label Format, ESC can't exit Recall Label mode 4 : printer asks in the display with PASSWORD	
Description	Different detection modes when insert the keyboard	
Example	None	

^XSET,LABELCMD,xx-Label Command Setting

Syntax	^XSET,LABELCMD,xx
effect & default	Permanent , default = 0
Parameter is not valid	Parameter is not processed.
Parameter	 <p>Bit 1 = 0, Reserved Bit 1 = 1, Reserved Bit 2 = 0, ^Px is to print according to printing quantity setting Bit 2 = 1, ^Px is to print with unlimited number of sheets Bit 3 = 0, The file name of the call label under LCD is not initially cleared Bit 3 = 1, The file name of the recall label under LCD will be cleared initially Bit 4 = 0, The min. value of feed paper length is 1mm. Bit 4 = 1, The min. value of feed paper length is 0mm. Bit 5 = 0, Sensor won't be changed with label setting change Bit 5 = 1, Sensor changes with label setting change Bit 6 = 0, Recall label file name of LCD doesn't support data input from touch screen Bit 6 = 1, Recall label file name of LCD supports data input from touch screen Bit 7 = 0, When the label content is blank, the printer will execute printing action. Bit 7 = 1, When the label content is black, the printer won't execute printing action. Bit 8 = 0, Continuation keyword when disable recovery Bit 8 = 1, Clear up keyword when enable recovery</p>
Description	None
Example	^XSET,LABELCMD,08 (Sensor changes with label setting change) ^XSET,LABELCMD,40 (Px is to print with unlimited number of sheets)

^XSET,LABELINPUT,n- Sets the name of recall label file whether it can be input by touch panel on LCD or not.

Syntax	^XSET,LABELINPUT,n
effect & default	Permanent , default = 0
parameter is not valid	Parameter is not processed.
Parameter	n = 0, The file name cannot be input by the touch panel n = 1, The file name can be input by the touch panel n = 2, The file name is in initially empty status
Description	None
Example	None

^XSET,LABELMODE,n- Whether to perform printing when the label is blank

Syntax	^XSET,LABELMODE,n
effect & default	Permanent , default = 0
parameter is not valid	Parameter is not processed.
Parameter	n = 0, Print when the label is blank n = 1, When the label is blank, the printer will not print
Description	None
Example	None

^XSET,LABELSEARCH,n- Keep/ Not Keep Keywords While Recalling The Labels, After Printing

Syntax	^XSET,LABELSEARCH,n
effect & default	permanent , default = 0
parameter is not valid	Parameter is not processed.
Parameter	n = 0, Unable to continue keywords while resuming. n = 1, Enable the elimination of keywords while resuming.
Description	None
Example	None

^XSET,LCDDATETIMEFORMAT,n– Set The Displayed Format Of LCD Date & Time

Syntax	^XSET,LCDDATETIMEFORMAT,n
effect & default	temporary , reset after the computer system activates , default = 0
parameter is not valid	Parameter is not processed.
Parameter	n = 0: YYYY/MM/DD (24-Hour Clock) 1: MM/DD/YYYY(24-Hour Clock) 2: MM/DD/YYYY(12-Hour Clock) 3: DD/MM/YYYY(12-Hour Clock) 4: DD/MM/YYYY(12-Hour Clock)
Description	Set LCD
Example	None

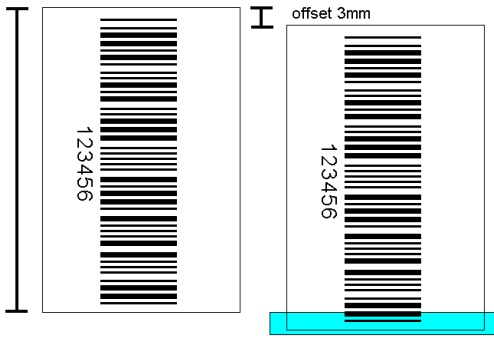
^XSET,LCDVOLUME,n–Set LCD (For 5"LCD) volume

Syntax	^XSET, LCDVOLUME,n
effect & default	permanent, default = 5
parameter is not valid	Parameter is not processed.
Parameter	n = 0~10
Description	Set the LCD volume, the set value is stored on the 5" LCD SD card
Example	None

^XSET,LCDLOCK,n- Set whether to lock the LCD

Syntax	^XSET,LCDLOCK,n
effect & default	permanent , default = 0
Parameter is not valid	Parameter is not processed.
Parameter	n = 0, Unlock n = 1, Lock
Description	Currently only suitable for 3.2-inch LCD. (20211230 FW:V2.110e)
Example	None

^XSET,LENGTHOFFSET,n-Fine-tune label length design value

Syntax	^XSET,LENGTHOFFSET,n
effect & default	permanent , default = 0
Parameter is not valid	Parameter is not processed.
Parameter	n = 0 ~ 50 (unit : mm)
Description	<p>Fine-tune label length design value (used when the customer sets the wrong label length and does not want to change the design of the label)</p>  <p>Assuming the original label is "^Q50,3", by entering "^XSET,LENGTHOFFSET,3", the label will become "^Q47,3" and the blue part will be unconditionally truncated.</p>
Example	None

^XSET,LINERLESS,n – Linerless Mode Control

Syntax	^XSET,LINERLESS,n
effect & default	permanent , none
Parameter is not valid	Parameter is not processed.
Parameter	0: disable linerless mode 1: enable linerless mode (After cutting, pull back 67%, print and then pull back 33%) 2: enable linerless mode (After cutting, it will not pull back, but it will pull back when printing the next label)
Description	^Z goto default will not restore the factory default settings Note • Works with firmware version V1.00C (140219-01) and V2.001 (140312-01) or later.
Example	None

^XSET,LOCKCMD,xxxx - Command Lock function, use only hardware modifications set

Syntax	^XSET,LOCKCMD,xxxx(yyyy)
Parameter	<p>xxxx</p> <p>yyyy</p>
Description	For value protected, user only can use LCD do any value setting.
Example	Lock Buzzer, ^XSET,LOCKCMD,2000 Lock Width, ^XSET,LOCKCMD,00000004

^XSET,MEMORY,n –Extended memory / Flash switch

Syntax	^XSET,MEMORY,n
effect & default	Temporarily, it will be reset when booting: If there is no extended memory, it will use flash after booting. If it detects extended memory, it will use extended memory after booting.
Parameter is not valid	Parameter is not processed.
Parameter	n = Memory being used n = 0, user flash n = 1, use extended memory(only valid in printer with USB HOST) n = 2, Dram memory
Description	None
Example	None

^XSET,NETSOCKETIDLETIME,n –Set TCP Socket Idle Time Out Interval

Syntax	^XSET,NETSOCKETIDLETIME,n
effect & default	Permanent
Parameter is not valid	Parameter is not processed.
Parameter	0 = Disable 1~65536 = Socket Idle time out interval (unit:second)
Description	None Note • Works with firmware version V1.00D (141230-01) andV2.003 (140411-01)or later.
Example	None

^XSET,NETSOCKETIDLETIME,n –Set TCP Socket Idle Time Out Interval

Syntax	^XSET,NETSOCKETIDLETIME,n
Effect & default	Permanent
Parameter is not valid	Parameter is not processed.
Parameter	0 = Disable 1~65536 = Socket Idle time out interval (unit:second)
Description	None Note • Works with firmware version V1.00D (141230-01) andV2.003 (140411-01)or later.
Example	None

^XSET,PAGEDELAY,n –Set 張與張間列印延遲時間 Set up printing delay time between pages

Syntax	^XSET,PAGEDELAY,n	
Effect & default	Permanent	
parameter is not valid	更指定為上或下限 More specified as upper or lower limit	
Parameter	n=0 ~ 300000 , 單位mS Unit: mS	
Description	張與張間列印延遲時間。 Set up printing delay time between pages Note • Works with firmware version V1.00B (130816-01) and V2.001 (140312-01) or later.	
Example	None	

^XSET,PAUSEPRINT,n – Set to pause after printing one page

Syntax	^XSET, PAUSEPRINT,n	
effect	default = 0	
parameter is not valid	Parameter is not processed.	
Parameter	n = 0 ~ 1 n = 0, disable n = 1, enable n = 2, Go to pause after print job finish	
Description	Go to pause after printing one page, and continue to print next one by pressing feed key.	
Example	None	

^XSET,PORTACTIVE,l,s,e,u,b– Control The Reception Of Port Active / Inactive

Syntax	^XSET,PORTACTIVE,l,s,e,u,b	
Effect	Permanent	
Parameter is not valid	Parameter is not processed.	
Parameter	L:LPT S:Serial Port E:Ethernet(The printer will restart as long as Ethernet port changes.) U:USB B:Blue Tooth Setting value 0: Disable 1:Enable	
Description	Default : ^XSET,PORTACTIVE,1,1,1,1,1	
Example	Enable: ^XSET,PORTACTIVE,1,1,1,1,1 Disable Serial Port ^XSET,PORTACTIVE,1,0,1,1,1	

^XSET,PROMPTTIME,n–(in the unit of second)

Syntax	^XSET,PROMPTTIME,n	
Effect	Permanent	
Parameter is not valid	Parameter is not processed.	
Parameter	The time will start to count down while inputting the variable in standalone mode. Prints out the current variable after time's up.	
Description	Default : ^XSET,PROMPTTIME,0	
Example	Enable: ^XSET,PROMPTTIME,n	
	Disable : ^XSET,PROMPTTIME,0	

^XSET,REALLENGTHPRINT,n - Adjust label length based on label content

Syntax	^XSET,REALLENGTHPRINT,n
Parameter	n = 0, disable n = 1, enable
Description	Adjust label length based on label content (Only support EZPL(GoDEX mode).GZPL(Zebra mode) in continues label)

^XSET,RECALLCRLF,n - Line feed characters include a character in recall label mode

Syntax	^XSET,RECALLCRLF,n
Parameter	n = 0, disable n = 1, enable
Description	Enable EZPL(GoDEX mode) and GEPL(Eltron mode). Line feed characters include a character in recall label mode.

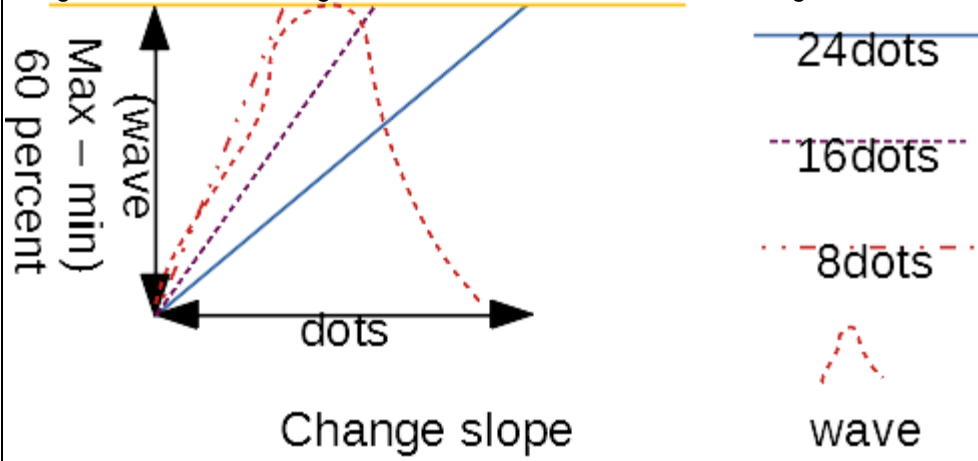
^XSET,REWINDER,n - Set Rewinder

Syntax	^XSET,REWINDER,n
Parameter	n = 0, disable the rewinder n = 1, enable the rewinder
Description	Set EZ-6000Plus Rewinder enable/disable. * Note: this command is only applied on EZ-6000Plus.

^XSET,ROTATION,n - Rotate whole label

Syntax	^XSET,ROTATION,n
Parameter	n = 0 , rotate 0° printing ; n = 1 , rotate 90° printing ; n = 2 , rotate 180° printing ; n = 3 , rotate 270° printing
Description	When perform this command, the length and width of label format will be swapped.
Example	<p>Print labels as below:</p> <pre> ^Q50,3 ^W102 ^L Dy2-me-dd Th:m:s R12,8,806,386,5,5 BA,118,74,3,7,200,0,1,43546576876 E </pre> <div data-bbox="389 629 705 779" data-label="Image"> <p>A standard horizontal barcode label with the number 1234567890 printed below it.</p> </div> <p>Case 1 : Continues paper, setup ^Q50,0,0 ^W100. Rotate 90°, it becomes ^Q100,0,0 ^W50.</p> <div data-bbox="389 848 534 1142" data-label="Image"> <p>A vertical barcode label where the number 1234567890 is printed vertically along the left side of the barcode.</p> </div> <p>Case 2 : Gap paper (Label: 50(H) * 100(W) * gap 3), setup ^Q50,0,0 ^W100. Rotate 90°, it becomes ^Q100,0,0 ^W50. It will only print out 50mm (H) * 50mm (W)</p> <div data-bbox="389 1267 534 1417" data-label="Image"> <p>A vertical barcode label on gap paper, showing only a portion of the original label's width and height.</p> </div> <p>Case 3 : Gap paper (Label: 50(H) * 100(W) * gap 3) ^Q50,0,0 ^W100. Rotate 90°, it becomes ^Q100,0,0 ^W50 + ^XSET,ACROSS,1 (cross label command). It will print out below labels with 100mm (H) * 50mm (W).</p> <div data-bbox="389 1583 534 1877" data-label="Image"> <p>Two vertical barcode labels stacked vertically on gap paper, with a horizontal line separating them, indicating the cross label command.</p> </div>

^XSET,SENSING,n - Assign reflect or see-through sensor mode be a detector while using continuous label

Syntax	^XSET,SENSING,n
Parameter	n = 0 reflect sensor , = 1 see-through sensor , =2 none detected mode
Description	Assign reflect or see-through sensor mode be a detector while using continuous label 
Example	None

^XSET,SLASHZERO,n - Slashed zero

Syntax	^XSET,SLASHZERO,n	
Parameter	n = 0, without slash, n = 1, with slash	
Description	Set all zero to be printed as slashed zero.	
Example	^XSET,SLASHZERO,1 ^Q60,0,0 ^L AA,81,15,1,1,0,0,A0123 AB,81,41,1,1,0,0,B0123 AC,81,71,1,1,0,0,C0123 AD,81,111,1,1,0,0,D0123 AE,81,160,1,1,0,0,E0123 AF,81,230,1,1,0,0,F0123 AG,81,298,1,1,0,0,G0123 AH,81,396,1,1,0,0,H0123 E	B0123 C0123 D0123 E0123 F0123 G0123 H0123

^XSET,SMARTBACK,n - Smart backfeed

Syntax	^XSET,SMARTBACK,n	
Parameter	n = 0, OFF n = 1, ON	
Description	This function can reduce the process time when Label Dispenser or Cutter been used. With this command, when the prior label is waiting for cutting or peeling, the partial contents of the next label will be printed. After the label has been cut or peeled, the printer will continue to print the rest contents of the next label.	
Example	(For Label Dispenser) ^XSET,SMARTBACK,1 ^Q100,3 ^E30 ^O1 ^P3 ^L R18,18,750,774,10,10 E	<ol style="list-style-type: none"> 1. Printer will print out first label and part of second label 2. After taking label away, printer continues printing second label and part of third label. 3. After taking label away, printer print out third label.
	(For Cutter) ^XSET,SMARTBACK,1 ^Q100,3 ^E30 ^D1 ^P3 ^L R18,18,750,774,10,10 E	

^XSET,TEXTBLOCK,x[,y] – TEXT BLOCK Function Control

Syntax	^XSET,TEXTBLOCK,n
Effect & default	permanent default = 0
parameter is not valid	Parameter is not processed.
Parameter	=0 no text block ; =1 enable text block; =2 Line feed along with blank
Description	When activating this function, texts with variable are valid: n=0 , Variable does not align the range : The word-wrap point is set to label margin. n=1 , Variable aligns the range : The word-wrap point is set to align the range. n=2 , Automatic word-wrap requirement alters into: If there is a blank, the label border is still aligned.
Example	

^XSET,TOPOFFORM,n - Top of Form

Syntax	^XSET,TOPOFFORM,n
Parameter	n = 0, disable Top of Form function n = 1, Enable Top of Form function n = 2, it will not perform Top of Form while power on but when error or door open occurred, it will perform Top of Form. When function enabled and power on, printer will back up according to E value. n = 3, disable Top of Form function but will back up according to E value.
Description	Enable/Disable Top of Form function.
Example	When power on printer or relieved from error, 2 nd label will be moved to printing line. If press feed key after power on printer or relieved from error, it will not perform Top of Form.

^XSET,UNICODE,n – How to set text encoding

Syntax	^XSET,UNICODE,n
Parameter	n=0, Default n=2, UTF8
Description	The Character encoding can be set to UTF8
Example	None

^XSET,UNPROMPT,p1 - Automatically acquire variables

Syntax	^XSET,UNPROMPT,p1	
Parameter	p1 : the variable code which want to acquire	
Description	Automatically acquire variables. Same as V#SET,UNPROMPT,p1	
Example	<pre> Send command : ~MDELFT001 ^FT001 ^Q50,0,0 ^W100 ^L V00,10,Prompt V01,10,Prompt V02,10,Prompt V#OP+,V02,V00,V01 ^XSET,UNPROMPT,V02 AH,188,20,1,1,0,0,V1 = ^V00 AH,188,120,1,1,0,0,V2 = ^V01 AH,188,220,1,1,0,0,V1 + V2 = ^V02 E ^KT001 001 002 E ~P1 </pre>	<pre> Print result : V1 = 001 V2 = 002 V1+V2 = 3 </pre>

^XSET,WHENTOSENSING,n - Set up autosensing

Syntax	^XSET,WHENTOSENSING,n
Parameter	n=0 None function n=1 do the auto sensing when printer turned on n=2 After printer cover close do the auto sensing n=3 printer cover open up do the auto sensing. Printer cover closes up as well.
Description	Set up autosensing

^XSETCUT,DOCUTTING,1–Set up cutter to cut once

Syntax	^XSETCUT,DOCUTTING,1
Parameter	None
Description	Set up cutter to cut once no matter the cutter was locked by command
Example	None

^XSETCUT,DOUBLECUT,x - Double cut

Syntax	^XSETCUT,DOUBLECUT,x	
Parameter	x = 0, disable the doublecut x = offset length (offset length < Label length, unit: mm)	
Description	Set the printer to cut twice per label.	
Example	<pre> ^XSETCUT,DOUBLECUT,45 ^Q90,3 ^E20 ^P3 ^D1 ^L C0,001,+1,A1 AC,350,144,1,1,1,0,a^C0 AC,350,544,1,1,1,0,a^C0 E </pre>	
Note	This function may decrease the service life of cutter since the adhesive of label will stain the cutter. Hence it is not recommended to use this function.	

^XSETCUT,MODE,n[,m],[p] - Set cutter mode

Syntax	^XSETCUT,MODE,n[,m],[p]	
Effect& default	Permanent, default = 0	
Parameter is not valid	Parameter is not processed.	
Parameter	<p>n = 0, Full-cut mode (default) n = 1, Partial-cut mode The "m" can be omitted when not switching between different types of cutters. m = 0, RGG120 / PGXG120 cutter / Rotary cutter m = 1, MK147 (TG-85E-AMD-F718) high-speed cutter (ZX1000i series dedicated 20190125), sample cutter ^D0,280 m = 2, MM03 (TG-85) dotted-line half-cut/full-cut cutter (ZX1000i series dedicated)</p> <p>Updated on 2021-12-07 p=0, After recovering from continuous paper error, the leading edge of the first sheet will not be cut and printing will start immediately (default). p=1, After continuous paper error recovery, the first page sends out the E value length, cuts the leading edge of the paper, pulls back the E value length, and then starts printing. p=1, 連續紙錯誤恢復後，首張吐 E 值裁切紙張前緣後，拉回 E 值才開始列印</p> <p>* Note: do not set the cutter mode to Partial-cut mode when cutting with cutter module that doesn't support Partial-cut function.</p>	
Description	Set the cutter mode to Full-cut mode or Partial-cut mode	
Example	<pre> ^D1 ^XSETCUT,MODE,0 ^L E </pre>	

^XSETRTC,ISOWEEKNUM,n - ISO Week

Syntax	^XSETRTC,ISOWEEKNUM,n																																																																																																																																																																																	
Parameter	n = 0, disable the ISO Week (default) n = 1, enable the ISO Week																																																																																																																																																																																	
Description	This command can set ISO week of the year to print.																																																																																																																																																																																	
Example	<p>The following figure shows the ISO Week for 1 January 2000 It is week 52 of year 1999, day 6 of the week, and day 1 of year 2000.</p> <table border="1"> <thead> <tr> <th>1999</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>2000</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> </tr> <tr> <th></th> <th><i>Mon</i></th> <th><i>Tue</i></th> <th><i>Wed</i></th> <th><i>Thu</i></th> <th><i>Fri</i></th> <th><i>Sat</i></th> <th><i>Sun</i></th> <th></th> <th><i>Mon</i></th> <th><i>Tue</i></th> <th><i>Wed</i></th> <th><i>Thu</i></th> <th><i>Fri</i></th> <th><i>Sat</i></th> <th><i>Sun</i></th> </tr> </thead> <tbody> <tr> <td>W44</td> <td>305</td> <td>306</td> <td>307</td> <td>308</td> <td>309</td> <td>310</td> <td>311</td> <td>W01</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> </tr> <tr> <td>W45</td> <td>312</td> <td>313</td> <td>314</td> <td>315</td> <td>316</td> <td>317</td> <td>318</td> <td>W02</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> </tr> <tr> <td>W46</td> <td>319</td> <td>320</td> <td>321</td> <td>322</td> <td>323</td> <td>324</td> <td>325</td> <td>W03</td> <td>17</td> <td>18</td> <td>19</td> <td>20</td> <td>21</td> <td>22</td> <td>23</td> </tr> <tr> <td>W47</td> <td>326</td> <td>327</td> <td>328</td> <td>329</td> <td>330</td> <td>331</td> <td>332</td> <td>W04</td> <td>24</td> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> <td>30</td> </tr> <tr> <td>W48</td> <td>333</td> <td>334</td> <td>335</td> <td>336</td> <td>337</td> <td>338</td> <td>339</td> <td>W05</td> <td>31</td> <td>32</td> <td>33</td> <td>34</td> <td>35</td> <td>36</td> <td>37</td> </tr> <tr> <td>W49</td> <td>340</td> <td>341</td> <td>342</td> <td>343</td> <td>344</td> <td>345</td> <td>346</td> <td>W06</td> <td>38</td> <td>39</td> <td>40</td> <td>41</td> <td>42</td> <td>43</td> <td>44</td> </tr> <tr> <td>W50</td> <td>347</td> <td>348</td> <td>349</td> <td>350</td> <td>351</td> <td>352</td> <td>353</td> <td>W07</td> <td>45</td> <td>46</td> <td>47</td> <td>48</td> <td>49</td> <td>50</td> <td>51</td> </tr> <tr> <td>W51</td> <td>354</td> <td>355</td> <td>356</td> <td>357</td> <td>358</td> <td>359</td> <td>360</td> <td>W08</td> <td>52</td> <td>53</td> <td>54</td> <td>55</td> <td>56</td> <td>57</td> <td>58</td> </tr> <tr> <td>W52</td> <td>361</td> <td>362</td> <td>363</td> <td>364</td> <td>365</td> <td>1</td> <td>2</td> <td>W09</td> <td>59</td> <td>60</td> <td>61</td> <td>62</td> <td>63</td> <td>64</td> <td>65</td> </tr> </tbody> </table>		1999	1	2	3	4	5	6	7	2000	1	2	3	4	5	6	7		<i>Mon</i>	<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>	<i>Sat</i>	<i>Sun</i>		<i>Mon</i>	<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>	<i>Sat</i>	<i>Sun</i>	W44	305	306	307	308	309	310	311	W01	3	4	5	6	7	8	9	W45	312	313	314	315	316	317	318	W02	10	11	12	13	14	15	16	W46	319	320	321	322	323	324	325	W03	17	18	19	20	21	22	23	W47	326	327	328	329	330	331	332	W04	24	25	26	27	28	29	30	W48	333	334	335	336	337	338	339	W05	31	32	33	34	35	36	37	W49	340	341	342	343	344	345	346	W06	38	39	40	41	42	43	44	W50	347	348	349	350	351	352	353	W07	45	46	47	48	49	50	51	W51	354	355	356	357	358	359	360	W08	52	53	54	55	56	57	58	W52	361	362	363	364	365	1	2	W09	59	60	61	62	63	64	65
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	~D1,1,0, 0,0,0 ^XSETRTC,ISOWEEKNUM,1 ^Q50,0,0 ^L Dy4-mn-dd AC,58,32,1,1,0,0,Today is ^D Dwy1 AC,58,132,1,1,0,0,Week of year in one digit: ^D Dwy2 AC,58,194,1,1,0,0,Week of year in two digits: ^D E	Set the date and time Define the clock type Print the date Print the Week of year in one digit (Week of year in one digit: 52) Print the Week of year in two digits (Week of year in two digits: 52)																																																																																																																																																																																
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	~D1,1,0, 0,0,0 ^XSETRTC,ISOWEEKNUM,0 ^Q50,0,0 ^L Dy4-mn-dd AC,58,32,1,1,0,0,NOT ISO week of year (^D) Dwy1 AC,58,132,1,1,0,0,Week of year in one digit: ^D Dwy2 AC,58,194,1,1,0,0,Week of year in two digits: ^D E	Set the date and time Define the clock type Print the date Print the Week of year in one digit (Week of year in one digit: 1) Print the Week of year in two digits (Week of year in two digits: 01)																																																																																																																																																																																


^XSETRTC,LANGUAGE,n - Different language layout

Syntax	^XSETRTC,LANGUAGE,n	
Parameter	n = 0-English 1-German 3-Spanish 2-French 4-Italian	
Description	This command can set the language of RTC.	
Example	<p>^XSETRTC,LANGUAGE,0 ^Q50,0,0 ^L AC,58,06,1,1,0,0,English Dw1 AC,58,046,1,1,0,0,Day-of-week 3 letter: ^D Dw2 AC,58,098,1,1,0,0,Day-of-week complete: ^D Dwn AC,58,144,1,1,0,0,Day-of-week number: ^D Dm1 AC,58,188,1,1,0,0,Month of year 3 letter: ^D Dm2 AC,58,240,1,1,0,0,Month of year complete: ^D Dmn AC,58,286,1,1,0,0,Month of year number: ^D E</p> <p>^XSETRTC,LANGUAGE,1 ^Q50,0,0 ^L AC,58,06,1,1,0,0,German Dw1 AC,58,046,1,1,0,0,Day-of-week 3 letter: ^D Dw2 AC,58,098,1,1,0,0,Day-of-week complete: ^D Dwn AC,58,144,1,1,0,0,Day-of-week number: ^D Dm1 AC,58,188,1,1,0,0,Month of year 3 letter: ^D Dm2 AC,58,240,1,1,0,0,Month of year complete: ^D Dmn AC,58,286,1,1,0,0,Month of year number: ^D E</p>	<p>English Day-of-week 3 letter: Thu Day-of-week complete: Thursday Day-of-week number: 4 Month of year 3 letter: Mar Month of year complete: March Month of year number: 03</p> <p>German Day-of-week 3 letter: Sam Day-of-week complete: Samstag Day-of-week number: 6 Month of year 3 letter: Nov Month of year complete: November Month of year number: 11</p>

^XSET,AUTOLOAD,n[,m] – Autoload mode

Syntax	^XSET,AUTOLOAD,n[,m]
effect & default	default = 0 (Disable the Autoload mode)
Parameter is not valid	Parameter is not processed.
Parameter	n = 0, Disable the Autoload mode n = 1, Enable the Autoload mode m = the length from TPH to AUTOLOAD Sensor 1 ~ 40 (mm), Without this parameter, it will be set to the FW preset distance
Description	This command is valid for the HD830 model It will only take effect after V2.00a
Example	^XSET,AUTOLOAD,1

^XSET,SELPAGEADD,n – Self-test page print content

Syntax	^XSET,SELPAGEADD,n						
effect & default	0(No additional printing)						
Parameter is not valid	Parameter is not processed.						
Parameter	<table border="1"> <thead> <tr> <th>n</th> <th>Note</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Disable to print the 1D barcode of IP/Submask/Gateway.</td> </tr> <tr> <td>1</td> <td>Enable to print the 1D barcode of IP/Submask/Gateway.</td> </tr> </tbody> </table>	n	Note	0	Disable to print the 1D barcode of IP/Submask/Gateway.	1	Enable to print the 1D barcode of IP/Submask/Gateway.
n	Note						
0	Disable to print the 1D barcode of IP/Submask/Gateway.						
1	Enable to print the 1D barcode of IP/Submask/Gateway.						
Description	This command is currently only valid for MX30 series models It will only take effect after V2.MYF						
Example	<pre>^XSET,SELPAGEADD,1 ~V</pre> 						

^Yb,p,d,s - RS232 serial Port communication setting

Syntax	^Yb,p,d,s		
Parameter	b = Baud Rate	48=4800bps	
		96=9600bps	
		19=19200bps	
		38=38400bps	
		57=57600bps	
		11=115200bps	
	p = Parity (N, O, E)	N=none parity	
		O=odd parity	
		E=even parity	
	d = Number of data bits	7	
		8	
	s = Number of stop bits	1	
2			
Description	Serial Port communication setting		

^Z - Reset to factory default settings

Syntax	^Z
Parameter	^Z: default value comes from EEPROM default area.
Description	Reset to factory default. Same as ^^INTERNALCOMMAND+INIT

Control Commands

~B - Display the version message

Syntax	~B
Parameters	None
Description	Show the version number of firmware on Hyper Terminal.

~Dm,d,y,h,i,s - Date/Time setting

Syntax	~Dm,d,y,h,i,s																																									
Parameter	m = Month (01 to 12) d = Date (01 to 31) y = Year (last two digits of year)	h = Hour (00 to 23) i = Minutes (00 to 59) s = Seconds (00 to 59)																																								
Description	Set real time clock of the printer. For format setting of the date, use the Daa bb cc command.																																									
Example	~D12,22,04,11,11,11 ^L Dwn AD,182,145,1,1,0,0,^D Dw2 AD,135,186,1,1,0,0,^D Dw1 AD,168,226,1,1,0,0,^D Dmn/dd/y2 AD,126,110,1,1,0,0,^D E	The following form shows the date for December 2004.																																								
		<table border="1"> <thead> <tr> <th>Sun.</th> <th>Mon.</th> <th>Tue.</th> <th>We.</th> <th>Thu.</th> <th>Fri.</th> <th>Sat.</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> <td>11</td> </tr> <tr> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> <td>18</td> </tr> <tr> <td>19</td> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> <td>25</td> </tr> <tr> <td>26</td> <td>27</td> <td>28</td> <td>29</td> <td>30</td> <td>31</td> <td></td> </tr> </tbody> </table> <p>The print result as below.</p> <p>12/22/04 3 Wednesday Wed</p>	Sun.	Mon.	Tue.	We.	Thu.	Fri.	Sat.				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Sun.	Mon.	Tue.	We.	Thu.	Fri.	Sat.																																				
			1	2	3	4																																				
5	6	7	8	9	10	11																																				
12	13	14	15	16	17	18																																				
19	20	21	22	23	24	25																																				
26	27	28	29	30	31																																					

~En,name,size - Download graphic to memory

Syntax	~En,name,size
Parameters	n = P or p: PCX file n = B or b: BMP file n = N or n:PNG file name = Name of image (up to 20 character) size = Size of image (bytes), maximum 512K byte.
Description	Download monochrome image onto memory. Printer will beep once after downloaded completed. If the file name of graph is duplicated, the printer will show "REPEAT FILE NAME", and the download will not be accepted (refer to page81).

~Fn - Control Printer into Keyboard Mode

Syntax	~Fn
Parameters	1: into keyboard mode to select label 0: exit keyboard mode , back to ready
Description	It should be use when you are in the process of keyboard mode.
Example	None

~G - Graphic mode

Syntax	~G
Parameter	None
Description	Set the printer to image-receiving mode. The image data is sent directly from host to the printing buffer (refer to page80)

~H,TTF,Xname,size<CR>data - Download true type font

Syntax	~H,TTF,Xname,size<CR>data
Parameter	X = from A to Z name = font name, accepted values: English alphabet and numbers size = size of font file in bytes data = binary data of TTF font file
Description	Download True Type Font to printer via command set. *Note: This command is designed for advance programmer. For general user, it is recommended to download TTF through (GoLabel or QLabel).

~H,TTF_TABLE,Xname,size<CR>data - Download Unicode Table

Syntax	~H,TTF_TABLE,Xname,size<CR>data
Parameter	X = from A to Z name = table name, accepted values: English alphabet and numbers size = size of font in bytes data = binary data of Unicode Table file
Description	Download the Unicode Table for printing True Type Font. *Note: This command is designed for advance programmer. For general user, it is not recommended to use this command.

~Jx - Bit-Mapped font download

Syntax	~Jx
Parameters	x = character; From a ~ z or A ~ Z; the amount is up to 26 characters.
Description	The command used for font loading is usually generated by (GoLabel or QLabel) label creation software. The printer will beep once after downloaded. If you use the same file name, the printer will show "REPEAT FILE NAME", and the download will not be accepted. The downloaded font is compatible with the HP Laser Jet II Plus (PCL-4).
Example	Download the "HVR00E1A.SFP" text file to external memory card. Use "A" to do the character code name. ~JA ; Define A as HVR00E1A.SFP COPY HVR00E1A.SFP PRN/B ; Send the order with the DOS mode

~Kn – Response function" Y" from RS-232

Syntax	~Kn
Parameter	n = 0, disable. n = 1, enable.
Description	Respond a "Y" signal from RS-232 back to host after each printing is done.

~L,DBASE,x,y - Download dBase III to Printer

Syntax	~L,DBASE,x,y data...
Parameter	x = database name y = database size (unit: byte)
Description	This command can download dBase III file to printer.
Example	~L,DBASE,customer,364 ...(Data of customer.dbf)

~L,DBASECSV,x,y - Download CSV to Printer

Syntax	~L,DBASECSV,x,y data...
Parameter	x = database name y = database size (unit: byte)
Description	This command can download CSV file to printer.
Example	None

~L,SERIAL,name,data - Download serial file to printer

Syntax	~L,SERIAL,name,data...
Parameter	name = serial file name data = serial file data
Description	Download serial file to printer.

~MCPY,s:o.x,d:o.x – Copy file

Syntax	~MCPY,s:o.x,d:o.x
Parameter	s = source device of stored object (s = D or F) d = destination device of stored object o = object name , o also can use * for this command. x = extension , x also can use * for this command.
	= D, database = A, Asia font = C, TTF font = E, Bit-Mapped font = F, label form = G, graphic = S, serial file = T, text = B, Unicode Table
Description	Copy file
Example	~MCPY,F:*.F,D:*.F ~MCPY,D:*.G,F:

~MDEL - Format current memory (not include download font- Asian font & TTF)

Syntax	~MDEL
Parameter	None
Description	Format current memory (not include download font- Asian font & TTF), ~X4 can check status of memory.
Example	None

~MDEL* - Format current memory

Syntax	~MDEL*
Parameter	None
Description	Format current memory
Example	None

~MDELn,name - Delete specific file from memory

Syntax	~MDELn,name	
Parameter	n = D, database A, Asia font C, TTF font E, Bit-Mapped font F, label form G, graphic S, serial file T, text B, Unicode Table name = The name of the graphic, form, Bit-Mapped font or others. *Note: The 'name' of Asia font, TTF font and Unicode Table is ID tag.	
Description	Delete specific file from printer's memory	
Example	~MDELD,customer	Delete "customer" database.
	~MDELG,Bus	The graphic "Bus" will be deleted

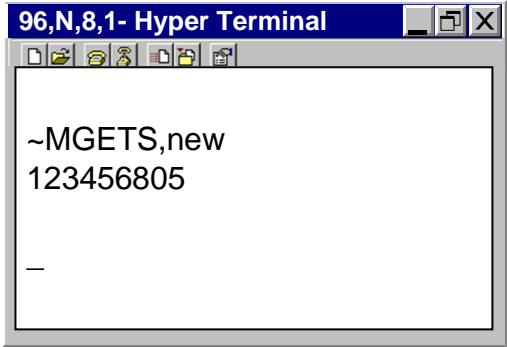
~MDIR - Get memory state from printer

Syntax	~MDIR	
Parameter	None	
Description	Show the information of memory from printer	
Example		

~MGETF,name -Get Label Format File information

Syntax	~MGETF,name	
Effect & default		
Parameter is not valid	Parameter is not processed.	
Parameter	name = label format file name	
Description	Show the label format file information on Hyper Terminal	
Example	(Get the information of label format file "T012" from printer) ~MGETF,T012	

~MGETS,name - Get Serial File information

Syntax	~MGETS,name
Parameter	name = serial file name
Description	Show the serial file information on Hyper Terminal
Example	(Get the information of serial file "new" from printer) ~MGETS,new 

~MGETT,name<CR> - Read saved file

Syntax	~MGETT,name<CR>
Parameter	name = the name of saved
Description	Read the saved file from printer.
Example	Use "~MSETT, text1<CR>00000015Text file test2" to save data to printer. Then use "~MGETT,name<CR>" command to read saved data Example: ~MGETT,text1 Hyper Terminal will show: Text file test2

~MSETT,name<CR>nnnnnnnn<data> - Save the .TXT file to printer

Syntax	~MSETT,name<CR>nnnnnnnn<data>
Parameter	name = the name of saved nnnnnnnn = data size (8 digits) data = data to be saved
Description	Save the .TXT file to printer.

~MMOV,s:o.x,d:o.x - Move file

Syntax	~MMOV,s:o.x,d:o.x
Parameter	s = source device of stored object (s = D or F) d = destination device of stored object o = object name , o also can use * for this command. x = extension , x also can use * for this command. = D, database = A, Asia font = C, TTF font = E, Bit-Mapped font = F, label form = G, graphic = S, serial file = T, text = B, Unicode Table
Description	Move file
Example	~MMOV,F:*F,D:*F ~MMOV,D:*G,F:

~Px - Print label

Syntax	~Px
Parameter	x = 1 ~ 32767
Description	This command will repeatedly print the specific copies of label format.

~Q±x - Row Offset Adjustment

Syntax	~Q±x
Parameter	X = -100 ~ +100 (unit: dots)
Description	This command is used for setting the start position of label printing. The top edge of label is considered as "0". The "+n" move the start position downward, and the "-n" move the position upward (it can be set across 2 labels).

~Rx - Rotate printing

Syntax	~Rx
Parameter	x = label width (unit: mm), the input range is defined by the specification of printer models.
Description	Rotate the label format 180-degrees when printing (refer to page81). To return to the original print direction, set the x value greater than the max width of model's specification.

~S,CHECK - Status immediate response command

Syntax	~S,CHECK								
Parameter	None								
Description	<p>The command will show the status of printer in “aa <CR><LF>” format.</p> <p>aa = printer status information:</p> <ul style="list-style-type: none"> 00 – Ready 01 – Media Empty 02 – Media Jam 03 – Ribbon Empty 04 – Printhead Up (Open) 05 – Rewinder Full 06 – File System Full 07 – Filename Not Found 08 – Duplicate Name 09 – Syntax error 10 – Cutter JAM 11 – Extended Memory Not Found 20 – Pause 21 – In Setting Mode 22 – In Keyboard Mode 50 – Printer is Printing 60 – Data in Process <p>*Note: Before using this command, the “^XSET,IMMEDIATE” (Set immediate response on/off) command should be turned on.</p>								
Example	<p>Procedure:</p> <table border="1" style="margin-left: 40px;"> <tr> <td>PC to Printer</td> <td>^XSET,IMMEDIATE,1</td> </tr> <tr> <td>Printer action</td> <td>Door open</td> </tr> <tr> <td>PC to Printer</td> <td>~S,CHECK</td> </tr> <tr> <td>Printer to PC</td> <td>04</td> </tr> </table> <p>**04: Door open</p>	PC to Printer	^XSET,IMMEDIATE,1	Printer action	Door open	PC to Printer	~S,CHECK	Printer to PC	04
PC to Printer	^XSET,IMMEDIATE,1								
Printer action	Door open								
PC to Printer	~S,CHECK								
Printer to PC	04								

~S,DUMP - Enter into DUMP Mode

Syntax	~S,DUMP
Parameter	None
Description	<p>When the printout result doesn't match to the label format setting, it is recommended to go into the Dump Mode to check whether any mistake in data transmission between the printer and the PC. For example, when printer receives 8 commands, yet without processing these commands, only printing out the contents of commands, this will confirm whether the commands were received correctly.</p> <p>To enter the Dump Mode, please do as follows:</p> <ol style="list-style-type: none">2. Make sure that the printer is on standby mode (LED light is green).3. Send "~S,DUMP" command to the printer.4. Printer will automatically print "DUMP MODE BEGIN". This indicates the printer is already in Dump Mode.5. Send other printing commands to the printer, and check if the content matches the sent commands.6. The print width would be changed when use ^W command in the meantime. <p>To get out from the Dump Mode, please press the FEED key, and then the printer will automatically print out "OUT OF DUMP MODE". This indicates that the printer is back to standby mode. You can also power off the printer to exit from the Dump Mode.</p>

~S,OFFSETa,n - Setup position micro adjustment

Syntax	~S,OFFSETa,n
Parameter	a=X or Y n=-100 ~ +100
Description	Setup position micro adjustment

~S,SENSOR - Auto Sensing

Syntax	~S,SENSOR
Parameter	None
Description	<p>Printer can automatically detect the label and store the result of detecting. By doing this, the printer will calibrate the printing position of the label and the user can do printing without setting the label length.</p> <p>To perform the Auto Sensing, please do as follows:</p> <ol style="list-style-type: none">1. Check if the label is correctly loaded on the printer and make sure the printer is on standby mode (LED light is green).2. Send "~S,SENSOR" command to the printer. The printer will start to detect the label and record the result.3. When calibration finished, printer will be back to standby mode.

~S,n (n = FEED, PAUSE, CANCEL, BUFCLR) - Analogue press control keys

Syntax	~S,n
Parameter	n = FEED, same as push Feed key once. (if the media setup is plain paper, ~S,FEED = feed 1mm) n = PAUSE, same as Pause key. On the printers without LCD display, the LED will flash slowly while sending this command. Send ~S,PAUSE or ~S,FEED again, it will come back to standby status. n = CANCEL, same as Cancel key used to clear error status. n = BUFCLR, printer will stop printing immediately and clean printer buffer then stays in standby status. (Serial and Variable will be cleared as well)
Description	Current printer default = ~S,ESA (auto switch). When a printer switch to certain language, it can auto detect and switch again by rebooting printer.
Example	None

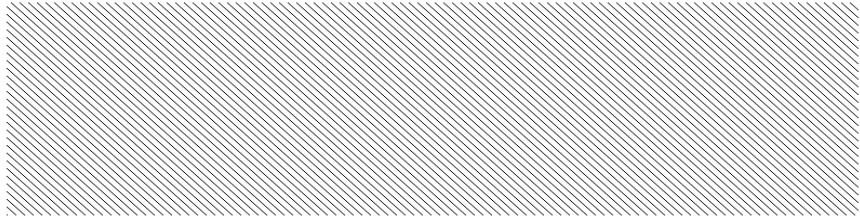
~S, ES[p1] – Change printer command language

Syntax	~S, ES[p1]
Parameter	n = p1 ; p1 = A or blank : auto switch ; p1 = G : EZPL ; p1 = E : GEPL ; p1 = Z : GZPL
Description	Current printer default = ~S,ESA (auto switch). When a printer switch to certain language, it can auto detect and switch again by rebooting printer.
Example	None

~S,STATUS - Status immediate response command

Syntax	~S,STATUS								
Parameter	None								
Description	Almost same as ~S,CHECK, the only difference is the response format of ~S,STATUS is "aa,nnnn<CR><LF> aa : please check ~S,CHECK for further explanation nnnn : remaining number of prints, range from 00000 to 99999								
Example	<p>Procedure :</p> <table border="1"> <tr> <td>PC to Printer</td> <td>^XSET,IMMEDIATE,1</td> </tr> <tr> <td>Printer action</td> <td>Door open</td> </tr> <tr> <td>PC to Printer</td> <td>~S,STATUS</td> </tr> <tr> <td>Printer to PC</td> <td>04,00100</td> </tr> </table> <p>**04: Door open , 00100: 100 labels waiting for printing</p>	PC to Printer	^XSET,IMMEDIATE,1	Printer action	Door open	PC to Printer	~S,STATUS	Printer to PC	04,00100
PC to Printer	^XSET,IMMEDIATE,1								
Printer action	Door open								
PC to Printer	~S,STATUS								
Printer to PC	04,00100								

~T - Print head testing

Syntax	~T
Parameter	None
Description	Print a pattern for the user to determine if the print head is damaged. The printing is based on width setting.
Example	<p>Print resolute as below::</p> 

~V - Print Self-Test page

Syntax	~V
Parameter	None
Description	Print out the Self-Test page. The printing is based on width setting.

-Xn -Print the available space and file information in the memory

Syntax	~Xn					
Parameter is not valid	Parameter is not processed.					
Parameter	n = 1, print label format names and available space in memory. n = 2, print graphic names and available space in memory. n = 3, print Bit-Mapped font names and available space in memory. n = 4, print the name of the label formats, graphics, fonts, and available space in memory. n = 5, print Asia font names and available space in memory					
Description	Print the available space in the memory (unit: bytes) ; 列印會依印表機設定寬度做適度調整					
Example	The test transmission process is as follows: <table border="1"> <tr> <td>PC to Printer</td> <td>~X4</td> </tr> <tr> <td>Printer</td> <td> FREE MEMORY SPACE 978336 KB New.SER 1 SERIAL(S) IN CF CARD TEST1.DBF 1 DBASE(S) IN CF CARD 1: Chinese Traditional 24x24 繁體中文 1 ASIAN FONT(S) IN CF CARD A.FNT 1 FONT(S) IN CF CARD godex logo.IMG 1 GRAPHIC(S) IN CF CARD T001.LBL 1 FORM(S) IN CF CARD </td> </tr> </table>		PC to Printer	~X4	Printer	FREE MEMORY SPACE 978336 KB New.SER 1 SERIAL(S) IN CF CARD TEST1.DBF 1 DBASE(S) IN CF CARD 1: Chinese Traditional 24x24 繁體中文 1 ASIAN FONT(S) IN CF CARD A.FNT 1 FONT(S) IN CF CARD godex logo.IMG 1 GRAPHIC(S) IN CF CARD T001.LBL 1 FORM(S) IN CF CARD
	PC to Printer	~X4				
	Printer	FREE MEMORY SPACE 978336 KB New.SER 1 SERIAL(S) IN CF CARD TEST1.DBF 1 DBASE(S) IN CF CARD 1: Chinese Traditional 24x24 繁體中文 1 ASIAN FONT(S) IN CF CARD A.FNT 1 FONT(S) IN CF CARD godex logo.IMG 1 GRAPHIC(S) IN CF CARD T001.LBL 1 FORM(S) IN CF CARD				
	The test transmission process is as follows: <table border="1"> <tr> <td>PC to Printer</td> <td>~X1</td> </tr> <tr> <td>Printer</td> <td> FREE MEMORY SPACE 978336 KB T001.LBL 1 FORM(S) IN CF CARD </td> </tr> </table>		PC to Printer	~X1	Printer	FREE MEMORY SPACE 978336 KB T001.LBL 1 FORM(S) IN CF CARD
PC to Printer	~X1					
Printer	FREE MEMORY SPACE 978336 KB T001.LBL 1 FORM(S) IN CF CARD					
The test transmission process is as follows: <table border="1"> <tr> <td>PC to Printer</td> <td>~X2</td> </tr> <tr> <td>Printer</td> <td> FREE MEMORY SPACE 978336 KB godex logo.IMG 1 GRAPHIC(S) IN CF CARD </td> </tr> </table>		PC to Printer	~X2	Printer	FREE MEMORY SPACE 978336 KB godex logo.IMG 1 GRAPHIC(S) IN CF CARD	
PC to Printer	~X2					
Printer	FREE MEMORY SPACE 978336 KB godex logo.IMG 1 GRAPHIC(S) IN CF CARD					
The test transmission process is as follows: <table border="1"> <tr> <td>PC to Printer</td> <td>~X3</td> </tr> <tr> <td>Printer</td> <td> FREE MEMORY SPACE 978336 KB A.FNT 1 FONT(S) IN CF CARD </td> </tr> </table>		PC to Printer	~X3	Printer	FREE MEMORY SPACE 978336 KB A.FNT 1 FONT(S) IN CF CARD	
PC to Printer	~X3					
Printer	FREE MEMORY SPACE 978336 KB A.FNT 1 FONT(S) IN CF CARD					
The test transmission process is as follows: <table border="1"> <tr> <td>PC to Printer</td> <td>~X5</td> </tr> <tr> <td>Printer</td> <td> FREE MEMORY SPACE 978336 KB 1: Chinese Traditional 24x24 繁體中文 1 ASIAN FONT(S) IN CF CARD </td> </tr> </table>		PC to Printer	~X5	Printer	FREE MEMORY SPACE 978336 KB 1: Chinese Traditional 24x24 繁體中文 1 ASIAN FONT(S) IN CF CARD	
PC to Printer	~X5					
Printer	FREE MEMORY SPACE 978336 KB 1: Chinese Traditional 24x24 繁體中文 1 ASIAN FONT(S) IN CF CARD					

-X6-Send back printer printed miles through RS-232

Syntax	~X6	
Parameter	None	
Description	Send back printer printed miles through RS-232	
Example	The test transmission process is as follows	
	PC to Printer	~X6
	Printer to PC	18118 METER(S) ; and will beep once

~X7 -Print database information in memory

Syntax	~X7	
Parameter	None	
Description	Print database information in memory	
Example	The test transmission process is as follows	
	PC to Printer	~X7
	Printer	FREE MEMORY SPACE 978336 KB TEST1.DBF 1 DBASE(S) IN CF CARD

~X8 -Print serial file information in memory

Syntax	~X8	
Parameter	None	
Description	Print serial file name from printer.	
Example	The test transmission process is as follows	
	PC to Printer	~X8
	Printer	FREE MEMORY SPACE 978336 KB new.SER 1 SERIAL(S) IN CF CARD

~X9 - Print download TTF information in memory

Syntax	~X9	
Parameter	None	
Description	Print download TTF file name from printer.	
Example	The test transmission process is as follows	
	PC to Printer	~X9
	Printer	FREE MEMORY SPACE: 1597 KB A: CP850_Latin1 TTF_TABLE 001 TTF TABLE(S) IN MEMORY A: Arial (True Type) TTF 001 TTF(S) IN MEMORY

~Z - Reset printer

Syntax	~Z
Parameter	None
Description	Reset the printer and the LED will flash once. It only applied when printer is in standby mode.

Label formatting commands

AUTOFR - Automatic form printing

Syntax	AUTOFR	
Parameters	None	
Description	When use "^Fname" command to store a label form, set the form name as "AUTOFR" and save into printer's memory. The printer then can print the label in standalone mode when power on next time.	
Sample	<code>^FAUTOFR</code> <code>^Q20,0,0</code> <code>^P1</code> <code>^L V00,6,Prompt</code> <code>AG,260,32,1,1,0,0,^V00</code> <code>E</code> <code>~Z</code> Printer will reboot after the save the file. Yellow light stands for the printer is standby and waiting for print. Input the variable and prints labels. For instance: <code>APPLE</code> <code>3</code> It will print 3 labels with <code>APPLE</code> on it.	<code>^FAUTOFR</code> <code>^Q20,0,0</code> <code>^PA3</code> <code>^L V00,6,Prompt</code> <code>AG,260,32,1,1,0,0,^V00</code> <code>E</code> <code>~Z</code> Printer will reboot after the save the file. Yellow light stands for the printer is standby and waiting for print. Input the variable and prints labels. For instance: <code>APPLE</code> It will print 3 labels with <code>APPLE</code> on it.
	NOTE1 : Uses 0x13 to logout AUTOFR status. <code>~MDEL,F,AUTOFR</code> to delete the saved file. NOTE2 : If command included <code>^PAx</code> , it would print label quantities according to "x". No need to input print quantity. NOTE3 : If push feed key while printer requests input variable, it equals to press "Enter" key which means input blank.	

At,x,y,x_mul,y_mul,gap,rotationInverse,data – Text

Syntax	At,x,y,x_mul,y_mul,gap,rotationInverse,data		
Parameter	t = Font type, see table below.		
	Font	Points	Font style
	A	6	Bitmap font, Code page 850
	B	8	Bitmap font, Code page 850
	C	10	Bitmap font, Code page 850
	D	12	Bitmap font, Code page 850
	E	14	Bitmap font, Code page 850
	F	18	Bitmap font, Code page 850
	G	24	Bitmap font, Code page 850
	H	30	Bitmap font, Code page 850
I	16x26 dots for US ASCII 8 bit		
K	OCR-B font		
L	OCR-A font		
Zn, n = 1 ~ 9	Asia font from 1 to 4		
	<p>x = Hori of top-left position of text (unit: dot, 1mm = 8 dots in 203dpi printer; 1mm=12 dots in 300dpi printer)</p> <p>y = Vert of top-left position of text (unit: dot, 1mm = 8 dots in 203dpi printer; 1mm=12 dots in 300dpi printer)</p> <p>x_mu = Horizontally magnified up to 8 times as large</p> <p>y_mul = Vertically magnified up to 8 times as large</p> <p>gap = Distance of the character (unit: dot, 1mm = 8 dots in 203dpi printer; 1mm=12 dots in 300dpi printer)</p> <p>rotationInverse = The rotation of ASCII text from 0 to 3, the Asian text rotation form 0 to 7</p> <p style="padding-left: 40px;">0→ 0° 1→ 90° 2→ 180° 3→ 270°</p> <p style="padding-left: 40px;">4→ 0° 5→ 90° 6→ 180° 7→ 270°</p> <p>(0~3→rotated for all characters; 4~7→rotated individually for each character)</p> <p>In addition, if the rotation parameter is followed with "I", the text will be printed in inverse font.</p> <p>To use UNICODE please setup as below:</p> <p>E → UTF8 L → UTF16 LO H → UTF16 HI (UTF16 characters should be end up with 4 0x00)</p> <p>Data = data string, it includes Constant, Date information (^D), Time information (^T), Serial variable (^Cx) and Variable data (^Vxx).</p>		
Description	Prints an ASCII or ASIA text string. The ASCII text oriented form left to right, the Asian text from left to right or top to bottom.		
Sample			
	Text Rotation	Rotation with Inverse	

AT,x,y,w,h,g,s,d,m,data - Print built-in true type font

Syntax	AT,x,y,w,h,g,s,d,m,data
Parameter	<p>x = Hori of left-top position of text (unit: dot, 1 mm = 8 dots or 12 dots) y = Vert of left-top position of text (unit: dot, 1 mm = 8 dots or 12 dots) w = The width of font (8~2000 dot) h = The height of font (8~2000 dot) g = Space between characters (0~200 dot) s = Font setting. It consists of 2 parts, one is rotation setting and the other is font style setting. The rotation setting is from 0 to 3: 0 → 0° 1 → 90° 2 → 180° 3 → 270° The font style setting is optional setting. It includes 3 types, can be set with none, one, two or three together: B → Bold T → Italic U → Underline To use UNICODE please setup as below: E → UTF8 L → UTF16 LO H → UTF16 HI (UTF16 characters should be end up with 4 0x00) d = DType, 0 → ASCII m = m = 0 → width/height AspectRatio mode m = 1 → Average width mode (refer to Further Information) data = Data to be printed *Portions of this software are copyright 2000-Feb-08 The FreeType Project (www.freetype.org).</p>
Description	Print built-in True Type Font (TTF).
Further Information	<p>In width/height AspectRatio mode (m = 0): When the width (w) and the height (h) of TTF are equal, the printing result of TTF will be exactly the same with Windows font. There is a formula to calculate the Windows font size from TTF size: $\text{TTFheightsize} = \text{WindowsFontsize} * \text{dpi} / 72$ For example, if user want to print Windows font 72pt on 203dpi printer, then the $\text{TTFheightsize} = 72 * 203 / 72 = 203$. And the TTFwidthsize should be equal to TTFheightsize, which is 203. As a result, when the width and height of TTF both are 203, the printout will be the same with Windows font 72pt.</p> <p>In Average width mode (m = 1): The height in dot is calculated the same as width/height AspectRatio mode, but the width is the average width in dots. If width=0, a 1:1 aspect ratio font is rendered.</p>
Sample	<p>AT,48,92,90,90,0,0,0,0,0,1234ABCDE → </p> <p>AT,50,324,90,90,0,0,0,0,0,1234ABCDE → </p>

【 Note 】

For conversion: 1mm = 8 dots when printing with 203dpi printer; 1mm = 12 dots when printing with 300dpi printer.

ATt,x,y,w,h,g,s,d,m,data - Print downloaded true type font

Syntax	ATt,x,y,w,h,g,s,d,m,data
Parameter	<p>t = TTF type, accepted values: from A to Z d=1, Type A~E ^XSET,TEXTBLOCK,n</p> <p>x = Hori of left-top position of text (unit: dot, 1 mm = 8 dots or 12 dots) y = Vert of left-top position of text (unit: dot, 1 mm = 8 dots or 12 dots) w = The width of font (8~2000 dot) h = The height of font (8~2000 dot) g = Space between characters (0~200 dot) s = Font setting. It consists of 2 parts, one is rotation setting and the other is font style setting. The rotation setting is from 0 to 3: 0 → 0° 1 → 90° 2 → 180° 3 → 270° The font style setting is optional setting. It includes 3 types, can be set with none, one, two or three together: B → Bold T → Italic U → Underline</p> <p>To use UNICODE please setup as below: E → UTF8 L → UTF16 LO H → UTF16 HI (UTF16 characters should be end up with 4 0x00) d = DType → 0: ASCII A~Z: Unicode table 1: Transform Text into Image by GoAPP m = 0 → width/height AspectRatio mode m = 1 → Average width mode (refer to Further Information) data = Data to be printed</p>
Description	Print downloaded True Type Font.
Further Information	<p>In width/height AspectRatio mode (m = 0): When the width (w) and the height (h) of TTF are equal, the printing result of TTF will be exactly the same with Windows font. There is a formula to calculate the Windows font size from TTF size: $\text{TTFheightsize} = \text{WindowsFontsize} * \text{dpi} / 72$ For example, if user want to print Windows font 72pt on 203dpi printer, then the $\text{TTFheightsize} = 72 * 203 / 72 = 203$. And the TTFwidthsize should be equal to TTFheightsize, which is 203. As a result, when the width and height of TTF both are 203, the printout will be the same with Windows font 72pt.</p> <p>In Average width mode (m = 1): The height in dot is calculated the same as width/height AspectRatio mode, but the width is the average width in dots. If width=0, a 1:1 aspect ratio font is rendered.</p>

Bt,x,y,narrow,wide,height,rotation,readable,data – Barcode

Syntax	Bt,x,y,narrow,wide,height,rotation,readable,data																																																																																																																								
Parameter is not valid	Parameter is not processed.																																																																																																																								
Parameter	<table border="1"> <thead> <tr> <th>type</th> <th>Barcode</th> <th>type</th> <th>Barcode</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Code 39 Full ASCII</td> <td>Q</td> <td>Code 128 (auto)</td> </tr> <tr> <td>A2</td> <td>Code 39 Full ASCII w check</td> <td>Q2</td> <td>Code 128 (subset A/B/C)</td> </tr> <tr> <td>A3</td> <td>Code 39 STD</td> <td>QI</td> <td>ISBT (Note1)</td> </tr> <tr> <td>A4</td> <td>Code 39 STD w check</td> <td>R</td> <td>UCC 128</td> </tr> <tr> <td>A5</td> <td>Code 39 STD w check & *</td> <td>S</td> <td>Post NET</td> </tr> <tr> <td>A6</td> <td>Code 39 STD w *</td> <td>S1</td> <td>Planet 11 & 13 digit (Note 1)</td> </tr> <tr> <td>A7</td> <td>Logmars (Note 1)</td> <td>S2</td> <td>Japanese Postnet (Note 1)</td> </tr> <tr> <td>A8</td> <td>Code 32</td> <td>T</td> <td>ITF14 (DUN14)</td> </tr> <tr> <td>B</td> <td>EAN 8</td> <td>T2</td> <td>ITF14 with Manual Settings</td> </tr> <tr> <td>C</td> <td>EAN 8 - Add ON 2</td> <td>U</td> <td>EAN 128</td> </tr> <tr> <td>D</td> <td>EAN 8 - Add ON 5</td> <td>V</td> <td>RPS 128</td> </tr> <tr> <td>E</td> <td>EAN 13</td> <td>W</td> <td>China Postal Code</td> </tr> <tr> <td>F</td> <td>EAN 13 – Add ON 2</td> <td>X</td> <td>HIBC (Code 39)</td> </tr> <tr> <td>G</td> <td>EAN 13 – Add ON 5</td> <td>X1</td> <td>HIBC (Code 128)</td> </tr> <tr> <td>H</td> <td>UPC A</td> <td>Y</td> <td>MSI 1 MOD 10</td> </tr> <tr> <td>I</td> <td>UPC A - Add ON 2</td> <td>Y2</td> <td>MSI 2 MOD 10</td> </tr> <tr> <td>J</td> <td>UPC A - Add ON 5</td> <td>Y3</td> <td>MSI 1 MOD 11 & 10</td> </tr> <tr> <td>K</td> <td>UPC E</td> <td>Y4</td> <td>MSI no digit check</td> </tr> <tr> <td>L</td> <td>UPC E - Add ON 2</td> <td>Z</td> <td>I 2 of 5 with Shipping Bearer Bars</td> </tr> <tr> <td>M</td> <td>UPC E - Add ON 5</td> <td>1</td> <td>UCC/EAN-128 K-MART</td> </tr> <tr> <td>N</td> <td>I 2 of 5</td> <td>2</td> <td>UCC/EAN-128 RANDOM</td> </tr> <tr> <td>N2</td> <td>I 2 of 5 with check digit</td> <td>3</td> <td>Telepen</td> </tr> <tr> <td>N3</td> <td>I 2 of 5 with not readable check digit (Note 1)</td> <td>4</td> <td>FIM</td> </tr> <tr> <td>N4</td> <td>Standard 2 of 5 (Note 1)</td> <td>7</td> <td>Plessey (Note 1)</td> </tr> <tr> <td>N5</td> <td>Industrial 2 of 5 (Note 1)</td> <td>001</td> <td>German Post Code</td> </tr> <tr> <td>N6</td> <td>Matrix 2 of 5 (Note 2)</td> <td>002</td> <td>Pharmacode</td> </tr> <tr> <td>O</td> <td>Codabar</td> <td>003</td> <td>KIX Code</td> </tr> <tr> <td>P</td> <td>Code 93</td> <td>004</td> <td>RM4SCC</td> </tr> <tr> <td>E2</td> <td>SAN4(Note 3)</td> <td></td> <td></td> </tr> </tbody> </table> <p>x = Hori. of top-left position of barcode (unit: dot, 1 mm = 8 dots or 12 dots) y = Vert. of top-left position of barcode (unit: dot, 1 mm = 8 dots or 12 dots) narrow (x dimension) = narrow bar from 1 ~ 10 dots(0.125 ~ 1.25 mm) **DUN 14 narrow setting from 5 ~ 8 dots; UPC/EAN narrow setting from 2 ~ 4 dots ** wide = wide bar from 2 ~ 30 dots(0.25 ~ 0.5 mm); **CODE 39, 93, CODABAR & I 2 of 5** height = Barcode height in dots (24 ~ 1200 dots) rotation = rotation of barcode (0 ~ 3) 0) 0° 1) 90° 2) 180° 3) 270° readable = 0 – human readable off 3 – below barcode, centered 6 – above right 1 – below barcode, left 4 – above barcode, centered 7 – below distributed 2 – above barcode, left 5 – below right 8 – above distributed data = barcode data, it includes Constant, Date information (^D), Time information (^T), Serial variable (^Cx) and Variable data (^Vxx).</p>	type	Barcode	type	Barcode	A	Code 39 Full ASCII	Q	Code 128 (auto)	A2	Code 39 Full ASCII w check	Q2	Code 128 (subset A/B/C)	A3	Code 39 STD	QI	ISBT (Note1)	A4	Code 39 STD w check	R	UCC 128	A5	Code 39 STD w check & *	S	Post NET	A6	Code 39 STD w *	S1	Planet 11 & 13 digit (Note 1)	A7	Logmars (Note 1)	S2	Japanese Postnet (Note 1)	A8	Code 32	T	ITF14 (DUN14)	B	EAN 8	T2	ITF14 with Manual Settings	C	EAN 8 - Add ON 2	U	EAN 128	D	EAN 8 - Add ON 5	V	RPS 128	E	EAN 13	W	China Postal Code	F	EAN 13 – Add ON 2	X	HIBC (Code 39)	G	EAN 13 – Add ON 5	X1	HIBC (Code 128)	H	UPC A	Y	MSI 1 MOD 10	I	UPC A - Add ON 2	Y2	MSI 2 MOD 10	J	UPC A - Add ON 5	Y3	MSI 1 MOD 11 & 10	K	UPC E	Y4	MSI no digit check	L	UPC E - Add ON 2	Z	I 2 of 5 with Shipping Bearer Bars	M	UPC E - Add ON 5	1	UCC/EAN-128 K-MART	N	I 2 of 5	2	UCC/EAN-128 RANDOM	N2	I 2 of 5 with check digit	3	Telepen	N3	I 2 of 5 with not readable check digit (Note 1)	4	FIM	N4	Standard 2 of 5 (Note 1)	7	Plessey (Note 1)	N5	Industrial 2 of 5 (Note 1)	001	German Post Code	N6	Matrix 2 of 5 (Note 2)	002	Pharmacode	O	Codabar	003	KIX Code	P	Code 93	004	RM4SCC	E2	SAN4(Note 3)		
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Description	To print different barcode, please refer to examples. (Note 1) Works with firmware version V1.00D and V2.005 or later																																																																																																																								

	(Note 2) Works with firmware versionV1.00G and V2.00A or later (Note 3) Works with firmware versionV1.130n and V2.110m or later
Example	Please refer to Appendix1 to see all 1D and 2D barcodes sample and commands.


Bt,x,y,narrow,wide,height,rotation[Gaaa],readable,data – EAN/UPC Barcode with Guard Bars Setting

Syntax	Bt,x,y,narrow,wide,height,rotation[Gaa],readable,data
Parameter	t = Barcode Type (B ~ M) aaa = Guard Bars (000 ~ 999)
Description	Works with firmware version V1.00H and V2.00A or later
Example	BH,0,0,3,8,80,0G000,1,12345678901

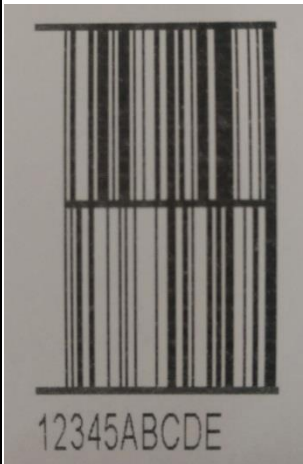
Bt,x,y,narrow,wide,height,rotation[Babbcc],readable,data - ITF14 with Manual Settings

Syntax	BT,x,y,narrow,wide,height,rotation[Babbcc],readable,data
Parameter	t = Barcode Type (T, T2) T – Wide and Height Settings are invalid T2 – Wide and Height Settings are valid a = Bearer Bars Type (0, 1, 2) 0 – None , 1 – Top/Bottom, 2 – Rectangle bb = Thickness (1 ~ 15) (Multiples of Narrow) cc = Quiet Zone (9 ~ 15) (Multiples of Narrow)
Description	Works with firmware version V1.00G and V2.00A or later (Bearer Bars Setting) Works with firmware version V1.101 and V2.101 or later (Wide and Height Settings)
Example	BT2,0,0,3,8,80,0B20510,1,1234567890123

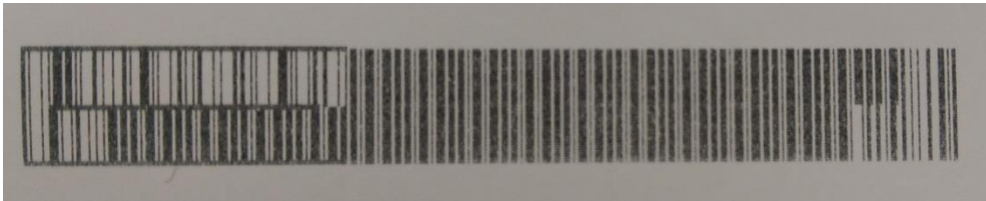
B050,x, y, narrow, wide, height, rotation, readable, c,data-Code11

Syntax	B050,x, y, narrow, wide, height, rotation, readable, c,data	
Parameter is not valid	Parameter is not processed.	
Parameter	<p>x = Hori. of top-left position of barcode (unit: dot, 1 mm = 8 dots or 12 dots) y = Vert. of top-left position of barcode (unit: dot, 1 mm = 8 dots or 12 dots) narrow (x dimension) = narrow bar from 1 ~ 10 dots(0.125 ~ 1.25 mm) wide = wide bar from 2 ~ 30 dots(0.25 ~ 0.5 mm) height = Barcode height in dots (24 ~ 1200 dots) rotation = rotation of barcode (0 ~ 3) 0) 0° 1) 90° 2) 180° 3) 270° readable = 0 – human readable off 3 – below barcode, 6 – above right centered 1 – below barcode, left 4 – above barcode, centered 2 – above barcode, left 5 – below right</p> <p>c = check digit 1 - 1 digit 2 - 2 digits</p> <p>data = barcode data, it includes Constant, Date information (^D), Time information (^T), Serial variable (^Cx) and Variable data (^Vxx).</p>	
Description	Works with firmware version V1.00D and V2.005 or later	
Example	<pre> ^Q50,0,0 ^W102 ^H8 ^P1 ^S3 ^AD ^C1 ^R0 ~Q+0 ^O0 ^D0 ^E27 ~R200 ^XSET,ROTATION,0 ^L Dy2-me-dd Th:m:s B050,54,50,2,6,80,0,1,1,123456 E </pre>	

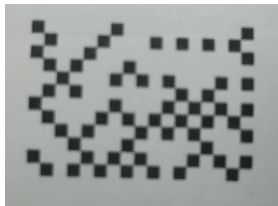
B051,x, y, narrow, wide, height, rotation, readable, h ,m,data - Code49

Syntax	B051,x, y, narrow, wide, height, rotation, readable, h,m,data	
Parameter is not valid	Parameter is not processed.	
Parameter	<p>x = Hori. of top-left position of barcode (unit: dot, 1 mm = 8 dots or 12 dots) y = Vert. of top-left position of barcode (unit: dot, 1 mm = 8 dots or 12 dots) narrow (x dimension) = narrow bar from 1 ~ 10 dots(0.125 ~ 1.25 mm) wide = wide bar from 2 ~ 30 dots(0.25 ~ 0.5 mm) height = Barcode height in dots (24 ~ 1200 dots) rotation = rotation of barcode (0 ~ 3) 0) 0° 1) 90° 2) 180° 3) 270° readable = 0 – human readable off 3 – below barcode, 6 – above right centered 1 – below barcode, left 4 – above barcode, centered 2 – above barcode, left 5 – below right</p> <p>h =This number multiplied by the module equals the height ofthe individual rows in dots. 1 is not a recommended value.</p> <p>m = starting mode 0 - Regular Alphanumeric Mode 1 - Multiple Read Alphanumeric 2 - Regular Numeric Mode 3 - Group Alphanumeric Mode 4 - Regular Alphanumeric Shift 1 5 - Regular Alphanumeric Shift 2 A -Automatic Mode.</p> <p>data = barcode data, it includes Constant, Date information (^D), Time information (^T), Serial variable (^Cx) and Variable data (^Vxx).</p>	
Description	Works with firmware versionV1.00Dand V2.005or later	
Example	<pre> ^Q50,0,0 ^W102 ^H8 ^P1 ^S4 ^AD ^C1 ^R0 ~Q+0 ^O0 ^D0 ^E18 ~R200 ^XSET,ROTATION,0 ^L Dy2-me-dd Th:m:s B051,100,24,3,8,80,0,1,30,0,12345ABCDE E </pre>	

B052,x, y, narrow, wide, height, rotation, readable,c,r,m, data- Codablock

Syntax	B052, y, narrow, wide, height, rotation, readable, c,r,m,data
Parameter is not valid	Parameter is not processed.
Parameter	<p>x = Hori. of top-left position of barcode (unit: dot, 1 mm = 8 dots or 12 dots) y = Vert. of top-left position of barcode (unit: dot, 1 mm = 8 dots or 12 dots) narrow (x dimension) = narrow bar from 1 ~ 10 dots(0.125 ~ 1.25 mm) wide = wide bar from 2 ~ 30 dots(0.25 ~ 0.5 mm) height = Barcode height in dots (24 ~ 1200 dots) rotation = rotation of barcode (0 ~ 3) 0) 0° 1) 90° 2) 180° 3) 270° readable = 0 – human readable off</p> <p>c = number of characters per row (data columns) This is used to encode a CODABLOCK symbol. It gives the you control over the width of the symbol. r = number of rows to encode for CODABLOCK A: 1 to 22 for CODABLOCK E and F: 2 to 4 m = mode (only support CODABLOCK F) CODABLOCK A uses the Code 39 character set. CODABLOCK F uses the Code 128 character set. CODABLOCK E uses the Code 128 character set and automatically adds FNC1.</p> <p>data = barcode data, it includes Constant, Date information (^D), Time information (^T), Serial variable (^Cx) and Variable data (^Vxx).</p>
Description	Works with firmware version V1.00D and V2.005 or later
Example	<pre> ^Q50,0,0 ^W102 ^H10 ^P1 ^S4 ^AD ^C1 ^R0 ~Q+0 ^O0 ^D0 ^E29 ~R200 ^XSET,ROTATION,0 ^L Dy2-me-dd Th:m:s B052,28,12,2,2,10,0,1,30,2,F,Codablock Barcode test E </pre> 

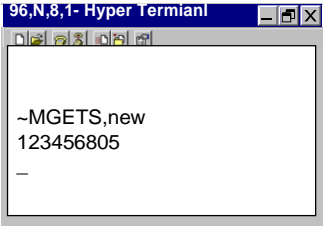
B053, x,y,mul,len,roatae<CR>data - DotCode

Syntax	B053, x,y,mul,len,roatae<CR> data
Parameter is not valid	Parameter is not processed.
Parameter	x = Hori. of top-left position of barcode (unit: dot, 1 mm = 8 dots or 12 dots) y = Vert. of top-left position of barcode (unit: dot, 1 mm = 8 dots or 12 dots) mul = multiple len = number of encoded data bytes. roatae =rotation of barcode (0 ~ 3) 0) 0° 1) 90° 2) 180° 3) 270° data = bar code data.
Description	Works with firmware version V1.Y64 and V2.Y3Z or later
Example	<pre> ^Q50,0,0 ^W102 ^H10 ^P1 ^S4 ^AD ^C1 ^R0 ~Q+0 ^O0 ^D0 ^E29 ~R200 ^XSET,ROTATION,0 ^L Dy2-me-dd Th:m:s B053,40,40,10,5,0 12345 E </pre> 

B5n,x,y,narrow,segment,height,rotation,readable,data - lay out GS1 Databar

Syntax	Bt,x,y,narrow,wide,height,rotation,readable,data			
Parameter	n = The type of GS1 Databar, see table below.			
	"n"	GS1 Databar type	"n"	GS1 Databar type
	0	GS1 Databar Omnidirectional	4	GS1 Databar Limited
	1	GS1 Databar Truncated	5	GS1 Databar Expanded
	2	GS1 Databar Stacked	6	GS1 Databar Expanded Stacked
	3	GS1 Databar Stacked Omnidir.		
<p>x = Hori. of top-left position of barcode (unit: dot, 1 mm = 8 dots or 12 dots) y = Vert. of top-left position of barcode (unit: dot, 1 mm = 8 dots or 12 dots) narrow (x dimension) = narrow bar from 1 ~ 10 dots(0.125 ~ 1.25 mm) Segment = the width setting of data segment from 2 ~ 22, only applied on "GS1 Data bar Expanded Stacked". When the data length exceeds the segment setting, the barcode will add more line automatically to contain all data. The maximum number of barcode lines is 11. Height = not available yet, please always enter "0". rotation = rotation of barcode (0 ~ 3) 0) 0° 1) 90° 2) 180° 3) 270° readable = set to show human readable text 0 – human readable off; 1 – below barcode, left Data = barcode data, it includes Constant, Date information (^D), Time information (^T), Serial variable (^Cx) and Variable data (^Vxx).</p>				

C#x,y,±value,z - Print count with serial file

Syntax	C#x,y,±value,z	
Parameter	x = counter index y = serial file name ±value = ±value of serial variable (up to 12-digit) z = '0'~'9' or 'B' for decimal, 'A' for hexadecimal, 'C' for 0~9,A~Z	
Description	Set print count with serial file by this command.	
Example	~L,SERIAL,new,123456795	Download the new file to printer first
	Turn printer off Turn printer on. Print again. ^Q60,0,0 ^P5 ^L C#0,new,+1,0 AG,50,137,1,1,0,0,^C0 E	Print Result: 123456800 123456801 123456802 123456803 123456804
	Key in ~MGETS, new in HyperTerminal	

C#SET,UNPROMPT,x - Disable serial prompt

Syntax	C#SET,UNPROMPT,x	
Parameters	x : The serial number code you want to get automatically	
Description	To get serial number code automatically, the function is same as command, ^XSET,UNPROMPT,p1	
Example	<p>Send command :</p> <pre> ~MDELFT001 ^FT001 ^Q50,0,0 ^W50 ^L C0,001,+1,Prompt C1,001,+1,Prompt C2,008,+1,Prompt </pre> <p>C#SET,UNPROMPT,C2</p> <pre> AF,88,20,1,1,0,0,C0 = ^C0 AF,88,120,1,1,0,0,C1 = ^C1 AF,88,220,1,1,0,0,C2 = ^C2 E ^KT001 001 002 E ~P2 </pre>	<p>Print result :</p> <pre> C0 = 001 C1 = 002 C2 = 008 C0 = 002 C1 = 003 C2 = 009 </pre>

Cx,ys,±value,prompt - Serial number setting

Syntax	Cx,ys,±value,prompt	
Parameter	<p>x = 0 to 9(up to10group), maximum combination up to 10 groups. y = select the decimal y → 0~9, set serial number as Decimal numbers, the value of "y" is included in "s" (start value of serial variable) as first digit. y → A, set serial number as Hexadecimal numbers, the value of "y" (e,g, A) is not included in "s" (start value of serial variable). y → C, set serial number as Base 36 numbers, the value of "y" (e,g, C) is not included in "s" (start value of serial variable). s = start value of serial variable (up to 29-digit). You can use the leading spaces to replace the leading zeros. ±value = ±value of serial variable (up to 28-digit) Prompt = prompt of serial variable (up to 20 characters), only applied on models with LCD or EZ-Viewer.</p>	
Description	Set the serial number	
Example	<pre> ^Q50,0,0 ^W100 ^H10 ^P3 ^L Dy2-me-dd Th:m:s C0,000,+1,Prompt C1, 1,+1,Prompt C2,AEE,+1,Prompt1 C3,CZYY,+1,Prompt2 AC,80,10,1,1,0,0,decimal with leading zeros: ^C0 AC,80, 80,1,1,0,0,decimal with leading spaces: ^C1 AC,80,160,1,1,0,0,hexadecimal: ^C2 AC,80,240,1,1,0,0, 0~9 A~Z: ^C3 E </pre>	<p>Print result :</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> decimal with leading zeros: 002 decimal with leading spaces: 3 hexadecimal: F0 0~9 A~Z: ZZ0 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> decimal with leading zeros: 001 decimal with leading spaces: 2 hexadecimal: EF 0~9 A~Z: ZYZ </div> <div style="border: 1px solid black; padding: 5px;"> decimal with leading zeros: 000 decimal with leading spaces: 1 hexadecimal: EE 0~9 A~Z: ZYY </div>
Example2	<p>Send command :</p> <pre> ^Q50,0,0 ^W100 ^H10 ^P3 ^L Dy2-me-dd Th:m:s C00,000,+1,Prompt C01, 1,+1,Prompt C02,AEE,+1,Prompt1 C03,CZYY,+1,Prompt2 AC,80,10,1,1,0,0,decimal with leading zeros: ^C00 AC,80, 80,1,1,0,0,decimal with leading spaces: ^C01 AC,80,160,1,1,0,0,hexadecimal: ^C02 AC,80,240,1,1,0,0, 0~9 A~Z: ^C03 </pre>	<p>At this time, you must use 2 digits to define the serial number</p> <p>C#SET,UNPROMPT,x-</p> <p>Disable serial prompt</p>

Daa|bb|cc - Define date layout

Syntax	Daa bb cc		
Parameter	aa = Year y2: Year with two digits (such as 97) y4: Year with four digits (such as 1997) bb = Month me: Month in letters (JAN, FEB,) mn: Month in numeric (01, 02,) cc = day of 2 digits = Partition, can be any ASCII character from decimal 32 to 63. Djj1: Julian calendar format(YYDD) Djj2: Julian calendar format(YDDD) Dwy1: week of year format(W) Dwy2: week of year format(WW) Dwn: day-of-week as number value Dw1: day-of-week as 3 letter abbreviation Dw2: day-of-week as complete Dm1: month of the year as 3 letter abbreviation Dm2: month of the year as a complete name		
Description	Define the date layout for print out		
Example	^Q100,0,0 ^W100 ^L Dy2-me-dd AD,36,40,1,1,0,0,^D Djj1 AD,36,80,1,1,0,0,^D Dwy1 AD,36,120,1,1,0,0,^D Dw1 AD,36,160,1,1,0,0,^D Dm1 AD,36,200,1,1,0,0,^D Dy4/mn/dd AD,36,280,1,1,0,0,^D Djj2 AD,36,320,1,1,0,0,^D Dwy2 AD,36,360,1,1,0,0,^D Dw2 AD,36,400,1,1,0,0,^D Dm2 AD,36,440,1,1,0,0,^D Dwn AD,36,530,1,1,0,0,^D AC,228,82,1,1,0,0,julian date format AC,228,124,1,1,0,0,week of year format AC,228,166,1,1,0,0,day-of-week as 3 letter abbreviation AC,228,210,1,1,0,0,month of the year as 3 letter abbreviation AC,228,318,1,1,0,0,julian date format AC,228,360,1,1,0,0,week of year format AC,228,402,1,1,0,0,day-of-week as complete AC,228,446,1,1,0,0,month of the year as a complete name AC,228,532,1,1,0,0,day-of-week as number value AC,228,40,1,1,0,0,Date layout AC,228,274,1,1,0,0,Date layout E	05-APR-15 5105 15 Fri Apr 2005/04/15 05105 15 Friday April 5	Date layout Julian date format Week of year format Day of week as 3 letter abbreviation Month of the year as 3 letter abbreviation Date layout Julian date format Week of year format Day-of-week as complete Month of the year as a complete name Day of week as number value

E - Terminate label formatting mode and print label

Syntax	E
Parameter	None
Description	End of formatting command; printer will print label after receiving this command.

FILEDB,OPEN,name - Open database

Syntax	FILEDB,OPEN,name
Parameter	name = the name of the database
Description	Open a database for printing.
Example	FILEDB,OPEN,customer

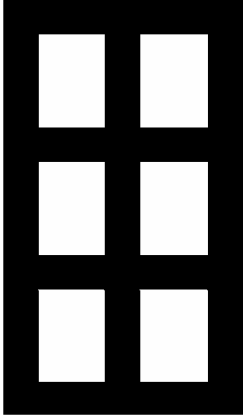
FILEDB,MOVE,n - Move data record

Syntax	FILEDB,MOVE,n	
Parameter	n = number n = FIRST, the first record n = LAST, the last record n = NEXT, the next record n = PRIOR, the prior record	
Description	Use variable or counter to select a specific record from the database.	
Example	FILEDB,MOVE,3 FILEDB,MOVE,FIRST FILEDB,MOVE,NEXT	Move to third record Move to first record Move to next record

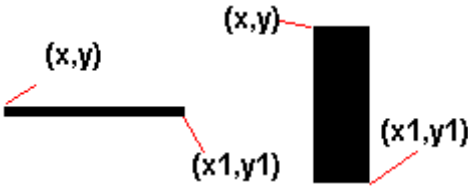

FILEDB,FIND,x,y - Searching from database

Syntax	FILEDB,FIND,x,y	
Parameter	x =Column name in database file y =Keyword for searching	
Description	Select a specific record form database and print it.	
Example	Download database "customer" : ^Q60,0,0 ^P1 ^L FILEDB,OPEN,customer V00,10,Prompt0 V#LINKDB,PHONE,V00 FILEDB,FIND,NAME,Mary AC,79,120,1,1,0,0, Marry's phone: ^V00 E	Find Mary's data and print it.

Hx,y,col_count,row_count,col_width,row_width,line_width – Table command drawing

Syntax	Hx,y,col_count,row_count,col_width,row_width,line_width	
Parameter	<p>x = left-upper Hori .pos. (unit: dots) y = left-upper Vert. Pos. (unit: dots) col_count = number of columns row_count = number of rows col_width = column width row_width = row width line_width = line width</p>	
Description	Draw a table in the label.	
Example	<pre>^Q50,0,3 ^W171 ^H10 ^P1 ^S4 ^AT ^C1 ^R0 ~Q+0 ^O0 ^D0 ^E14 ~R200 ^L Dy2-me-dd Th:m:s H20,20,2,3,20,30,10 E</pre>	

La,x,y,x1,y1 - Line command drawing

Syntax	La,x,y,x1,y1	
Parameter	<p>a = o, overwrite the line on the bottom a = e, exclusive the line on the bottom x = left-up; per horizontal(Hori.) pos. (unit: dots; 1mm= 8 dots or 12 dots) y = left-upper vertical (Vert.) pos. (unit: dots; 1mm= 8 dots or 12 dots) x1 = right-bottom Hori. Pos. (unit: dots) y1 = right-bottom Vert. Pos. (unit: dots)</p>	
Description	Define a line to render in the label *Note: The diagonal line draw is not available.	
Example	<pre>^Q50,0,0 ^W50 ^H15 ^P1 ^S2 ^L Dy2-me-dd Th:m:s R08,08,252,252,4,4 Lo,128,010,132,250 Le,008,128,252,132 Ls,008,010,4,248,250 Ls,248,010,4,008,250 E</pre>	<p>Result</p> 

Ls,x,y,n,x1,y1 - Line draw diagonal command

Syntax	Ls,x,y,n,x1,y1	
Parameter is not valid	Parameter is not processed.	
Parameter	<p>x = left-up; per horizontal(Hori.) pos. (unit: dots; 1mm= 8 dots or 12 dots) y = left-upper vertical (Vert.) pos. (unit: dots; 1mm= 8 dots or 12 dots) n = Line Width (dots) x1 = right-bottom Hori. Pos. (unit: dots) y1 = right-bottom Vert. Pos. (unit: dots)</p>	
Description	Define a line to render in the label	
Example	<p>Send command :</p> <pre> ^Q50,0,0 ^W50 ^H15 ^P1 ^S2 ^L Dy2-me-dd Th:m:s R08,08,252,252,4,4 Lo,128,010,132,250 Le,008,128,252,132 Ls,008,010,4,248,250 Ls,248,010,4,008,250 E </pre>	<p>Print result :</p>


Mx,y,sno,nos,mode,ccode,zip,class,rotation,message - Print Maxicode

Syntax	Mx,y,sno,nos,mode,ccode,zip,class,rotation,message
Parameter	<p>x = Hori. of left-bottom pos. of barcode (unit: dots). y = Vert. of left-bottom pos. of barcode (unit: dots). sno = symbol number, in set of symbols: 1 ~ 8. nos = number of symbols in set of symbols: 1 ~ 8 sets. mode = mode of maxicode 2, 3, 4 or 6. ccode = 3 digits country code. zip = postal code 9 digits for US style postal code. If there is a 5 digits zip code, 4 zeros must be padded 6 digits alphanumeric zip code for non-US style postal code. class = service class, 3 digits numeric. rotation = rotation of barcode (0 ~ 3) 0) 0° 1) 90° 2) 180° 3) 270° message = 1 ~ 84 characters.</p>
Description	Print a 2 dimensional Maxicode


Px,y,w,h,r,c,ec,len,rotation - Print PDF 417

Syntax	Px,y,w,h,r,c,ec,len,rotation
Parameters	<p>Data</p> <p>x = Hori. of left-bottom pos. of barcode (unit: dots) y = Vert. of left-bottom pos. of barcode (unit: dots) w = Width (x dimension) of the narrowest element (bar or space) in the barcode. h = Height (y dimension) of each barcode row in the symbol. r = number of barcode rows, from 3 to 90. If you key in 0, printer will count all the rows. c = number of barcode columns, from 1 ~ 30. If you key in 0, printer will count the all columns. ec = error correction level: 0 ~ 8. len = number of encoded data bytes, including carriage returns ↵ and line feed. rotation = rotation of barcode (0 ~ 3) 0) 0° 1) 90° 2) 180° 3) 270° Data = data to be encoded (the length of the data must be equal to the set value of "len"; up to 1024 characters)</p>
Description	Print a 2 dimensional PDF417 code

PCx,y,w,h,r,c,ec,max_len,rotation - PDF 417 with variable length data

Syntax	PCx, y, w, h, r, c, ec, max_len,rotation &*Data&*	
Parameter	<p>x = Hori. of left-bottom pos. of barcode (unit: dots) y = Vert. of left-bottom pos. of barcode (unit: dots) w = Width (x dimension) of the narrowest element (bar or space) in the barcode. h = Height (y dimension) of each barcode row in the symbol. r = number of barcode rows, from 3 to 90. If you key in 0, printer will count all the rows. c = number of barcode columns, from 1 ~ 30. If you key in 0, printer will count the all columns. ec = error correction level: 0 ~ 8. max_len = max of number encoded data bytes, including carriage returns ␣ and line feed. rotation = rotation of barcode (0 ~ 3) 0) 0° 1) 90° 2) 180° 3) 270° Data = data to be encoded. The content of data must be enclosed with "&*" sign on the beginning and the end.</p>	
Description	To adjust the PDF 417 data length by this command	
Example	<pre>^Q50,0,0 ^L PC141,104,3,5,3,3,3,50 &*0123456789 Line2 Line3 9876543210&* E</pre>	<p>(Data read from CCD: 0123456789[CR][LF]Line2[CR][LF]Line3[</p>

PDx,y,w,h,r,c,ec,max_len,rotation- PDF 417 with variable length data

Syntax	PDx,y,w,h,r,c,ec,max_len,rotation &*Data&*
Parameter is not valid.	Parameter is not processed.
Parameter	<p>x = Hori. of left-bottom pos. of barcode (unit: dots) y = Vert. of left-bottom pos. of barcode (unit: dots) w = Width (x dimension) of the narrowest element (bar or space) in the barcode. h = Height (y dimension) of each barcode row in the symbol. (The height decision here is the result of w * h; If w = 3 h = 3 then the actual height is 3 * 3 = 9 If w = 4 h = 5 then the actual height is 4 * 5 = 20 etc.) r = number of barcode rows, from 3 to 90. If you key in 0, printer will count all the rows. c = number of barcode columns, from 1 ~ 30. If you key in 0, printer will count the all columns. ec = error correction level: 0 ~ 8. max_len = max of number encoded data bytes, including carriage returns ↵ and line feed. rotation = rotation of barcode (0 ~ 3) 0) 0° 1) 90° 2) 180° 3) 270° Data = data to be encoded. The content of data must be enclosed with "&*" sign on the beginning and the end.</p>
Description	Print PDF417 width manually set, the actual print height = width x set height, the length of the data is marked with "&*" as the beginning and end of the data.
Example	<pre> ^Q50,0,0 ^W70 ^H15 ^P1 ^S2 ^AD ^C1 ^R0 ~Q+0 ^O0 ^D0 ^E12 ~R200 ^L Dy2-me-dd Th:m:s P9,40,3,3,3,1,3,26 &*0123456789 0123456789&* E </pre> 

PHx,y,w,h,r,c,ec,len,rotation,p1,p2 -Print Macro PDF 417

Syntax	PHx,y,w,h,r,c,ec,len,rotation,p1,p2 Data
Parameter is not valid	Parameter is not processed.
Parameters	<p>x = Hori. of left-bottom pos. of barcode (unit: dots) y = Vert. of left-bottom pos. of barcode (unit: dots) w = Width (x dimension) of the narrowest element (bar or space) in the barcode. h = Height (y dimension) of each barcode row in the symbol. r = number of barcode rows, from 3 to 90. If you key in 0, printer will count all the rows. c = number of barcode columns, from 1 ~ 30. If you key in 0, printer will count the all columns. ec = error correction level: 0 ~ 8. len = number of encoded data bytes, including carriage returns ␣ and line feed. rotation = rotation of barcode (0 ~ 3) 0) 0° 1) 90° 2) 180° 3) 270° p1 = Horizontal offset position (X) in dots of the next Macro PDF bar code symbol. p2 = Vertical offset position (Y) in dots of the next Macro PDF bar code symbol. Data = data to be encoded (the length of the data must be equal to the set value of "len"; up to 1024 characters)</p>
Description	Print a 2D Macro PDF417 code
Example	None

PMx,y,w,h,mode,length,rotation – Micro PDF 417

Syntax	<p>PMx,y,w,h,mode,length,rotation Data</p>																																																																																																																																																																																																																		
Parameter	<p>x = Hori. of left-bottom pos. of barcode (unit: dots) y = Vert. of left-bottom pos. of barcode (unit: dots) w = Width (x dimension) of the narrowest element (bar or space) in the barcode. 0~50 unit : dots h = Height (y dimension) of each barcode row in the symbol. 0~50 unit : dots mode = 0 ~ 33. length = number of encoded data bytes, including carriage returns ↵ and line feed. 0~400 rotation = rotation of barcode (0 ~ 3) 0) 0° 1) 90° 2) 180° 3) 270° Data = data to be encoded (the length of the data must be equal to the set value of "len"; up to 1024 characters)</p> <p style="text-align: center;">Table 9 • MicroPDF417 Mode</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Mode (M)</th> <th>Number of Data Columns</th> <th>Number of Data Rows</th> <th>% of Cws for EC</th> <th>Max Alpha Characters</th> <th>Max Digits</th> </tr> </thead> <tbody> <tr><td>0</td><td>1</td><td>11</td><td>64</td><td>6</td><td>8</td></tr> <tr><td>1</td><td>1</td><td>14</td><td>50</td><td>12</td><td>17</td></tr> <tr><td>2</td><td>1</td><td>17</td><td>41</td><td>18</td><td>26</td></tr> <tr><td>3</td><td>1</td><td>20</td><td>40</td><td>22</td><td>32</td></tr> <tr><td>4</td><td>1</td><td>24</td><td>33</td><td>30</td><td>44</td></tr> <tr><td>5</td><td>1</td><td>28</td><td>29</td><td>38</td><td>55</td></tr> <tr><td>6</td><td>2</td><td>8</td><td>50</td><td>14</td><td>20</td></tr> <tr><td>7</td><td>2</td><td>11</td><td>41</td><td>24</td><td>35</td></tr> <tr><td>8</td><td>2</td><td>14</td><td>32</td><td>36</td><td>52</td></tr> <tr><td>9</td><td>2</td><td>17</td><td>29</td><td>46</td><td>67</td></tr> <tr><td>10</td><td>2</td><td>20</td><td>28</td><td>56</td><td>82</td></tr> <tr><td>11</td><td>2</td><td>23</td><td>28</td><td>64</td><td>93</td></tr> <tr><td>12</td><td>2</td><td>26</td><td>29</td><td>72</td><td>105</td></tr> <tr><td>13</td><td>3</td><td>6</td><td>67</td><td>10</td><td>14</td></tr> <tr><td>14</td><td>3</td><td>8</td><td>58</td><td>18</td><td>26</td></tr> <tr><td>15</td><td>3</td><td>10</td><td>53</td><td>26</td><td>38</td></tr> <tr><td>16</td><td>3</td><td>12</td><td>50</td><td>34</td><td>49</td></tr> <tr><td>17</td><td>3</td><td>15</td><td>47</td><td>46</td><td>67</td></tr> <tr><td>18</td><td>3</td><td>20</td><td>43</td><td>66</td><td>96</td></tr> <tr><td>19</td><td>3</td><td>26</td><td>41</td><td>90</td><td>132</td></tr> <tr><td>20</td><td>3</td><td>32</td><td>40</td><td>114</td><td>167</td></tr> <tr><td>21</td><td>3</td><td>38</td><td>39</td><td>138</td><td>202</td></tr> <tr><td>22</td><td>3</td><td>44</td><td>38</td><td>162</td><td>237</td></tr> <tr><td>23</td><td>4</td><td>6</td><td>50</td><td>22</td><td>32</td></tr> <tr><td>24</td><td>4</td><td>8</td><td>44</td><td>34</td><td>49</td></tr> <tr><td>25</td><td>4</td><td>10</td><td>40</td><td>46</td><td>67</td></tr> <tr><td>26</td><td>4</td><td>12</td><td>38</td><td>58</td><td>85</td></tr> <tr><td>27</td><td>4</td><td>15</td><td>35</td><td>76</td><td>111</td></tr> <tr><td>28</td><td>4</td><td>20</td><td>33</td><td>106</td><td>155</td></tr> <tr><td>29</td><td>4</td><td>26</td><td>31</td><td>142</td><td>208</td></tr> <tr><td>30</td><td>4</td><td>32</td><td>30</td><td>178</td><td>261</td></tr> <tr><td>31</td><td>4</td><td>38</td><td>29</td><td>214</td><td>313</td></tr> <tr><td>32</td><td>4</td><td>44</td><td>28</td><td>250</td><td>366</td></tr> <tr><td>33</td><td>4</td><td>4</td><td>50</td><td>14</td><td>20</td></tr> </tbody> </table>	Mode (M)	Number of Data Columns	Number of Data Rows	% of Cws for EC	Max Alpha Characters	Max Digits	0	1	11	64	6	8	1	1	14	50	12	17	2	1	17	41	18	26	3	1	20	40	22	32	4	1	24	33	30	44	5	1	28	29	38	55	6	2	8	50	14	20	7	2	11	41	24	35	8	2	14	32	36	52	9	2	17	29	46	67	10	2	20	28	56	82	11	2	23	28	64	93	12	2	26	29	72	105	13	3	6	67	10	14	14	3	8	58	18	26	15	3	10	53	26	38	16	3	12	50	34	49	17	3	15	47	46	67	18	3	20	43	66	96	19	3	26	41	90	132	20	3	32	40	114	167	21	3	38	39	138	202	22	3	44	38	162	237	23	4	6	50	22	32	24	4	8	44	34	49	25	4	10	40	46	67	26	4	12	38	58	85	27	4	15	35	76	111	28	4	20	33	106	155	29	4	26	31	142	208	30	4	32	30	178	261	31	4	38	29	214	313	32	4	44	28	250	366	33	4	4	50	14	20
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3	1	20	40	22	32																																																																																																																																																																																																														
4	1	24	33	30	44																																																																																																																																																																																																														
5	1	28	29	38	55																																																																																																																																																																																																														
6	2	8	50	14	20																																																																																																																																																																																																														
7	2	11	41	24	35																																																																																																																																																																																																														
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12	2	26	29	72	105																																																																																																																																																																																																														
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19	3	26	41	90	132																																																																																																																																																																																																														
20	3	32	40	114	167																																																																																																																																																																																																														
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31	4	38	29	214	313																																																																																																																																																																																																														
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33	4	4	50	14	20																																																																																																																																																																																																														
Description	Print a 2D Micro PDF417 code																																																																																																																																																																																																																		
Example	PM100,100,6,8,3,10,3 1234567890																																																																																																																																																																																																																		

Qx,y,width,height - Pattern command

Syntax	Qx,y,width,height Data...	
Parameters	x = Hori. of left-bottom pos. (unit: dots). y = Vert. of left-bottom pos. (unit: dots). width = width of graphic (unit: byte) height = height of graphic (unit: dots) (data length = width x height)	
Description		<p>Data send out 1 2 3 477 78 79 80</p> <p>width = 4 ; height = 20 (data length: 4x20 = 80)</p> <p>(refer to Pattern command setting)</p>
	<p>Send command :</p> <pre>^Q20,0,0 ^W40 ^S2 ^H15 ^L Q40,10,3,8 AAAAAAAAAAAAAAAAAAAAAAAAA E</pre> <p>A : 01000001 (Binary)</p>	<p>Print result :</p>

QAx,y,width,height<CR>data - Pattern command with compressed data

Syntax	QAx,y,width,height<CR> data
Parameter is not valid	Parameter is not processed.
Description	Can handle images that have been compressed with Zlib.
Parameters	x = Hori. of left-bottom pos. (unit: dots) y = Vert. of left-bottom pos. (unit: dots) width = width of graphic (unit: byte) height = height of graphic (unit: dots)

Rx,y,x1,y1,lrw,ubw – Rectangle drawing

Syntax	Rx,y,x1,y1,lrw,ubw	
Parameter is not valid	Parameter is not processed.	
Parameter	<p>x = left-upper Hori .pos. (unit: dots) y = left-upper Vert. Pos. (unit: dots) x1 = right-bottom Hori. Pos. (unit: dots) y1 = right-bottom Vert. Pos. (unit: dots) lrw = thickness of left, right border(unit: dots) ubw = thickness of upper bottom border (unit:dots)</p>	
Description	Draw a rectangle in the label	
Example	<p>Send command :</p> <pre>^Q50,0,0 ^W70 ^L R10,10,210,210,8,8 E</pre>	<p>Print result:</p>

Th|m|s – Internal real-time setting

Syntax	Th m s
Parameter	h = Hour format (2 digits, 00 ~ 23) m = Minute format (2 digits, 00 ~ 59) s = Second format (2 digits, 00 ~ 59) = Partition (It can be any separator between dec. 32 to 63 of ASCII). [+] : Add in the rear, it will show 12 hours + AM or PM
Description	Define the time layout for internal real-time clock

V#ADD,name,size,prompt - Store variable with a name

Syntax	V#ADD,name,size,prompt	
Parameters	name = descriptive name size = number of character prompt = prompt of variable	
Description	The name of the variable can be defined by user.	
Example	<pre> ~MDELf,aaa ^Faaa ^Q50,0,3 ^AD ^L V#ADD,weight,10,Weight V#ADD,date,15,Date AE,7,46,1,1,0,0,Weight is ^(weight) AE,7,86,1,1,0,0,Date is ^(date) E ^Kaaa 16 kg 11/26/2004 E ~P1 </pre>	<pre> Weight is 16 kg Date is 11/26/2004 </pre>

V#ADDCHKSUM,x - Add modulus 10 check code

Syntax	V#ADDCHKSUM,x	
Parameters	x = variable	
Description	Add the modulus 10 check code to x	
Example	<pre> Add modulus 10 check code to V00 ~MDELf,test ^Ftest ^Q60,0,0 ^L V00,16,Prompt V#ADDCHKSUM,V00 AE,47,57,1,1,0,0,Date: ^V00 E ^Ktest 111222333 E ~P1 </pre>	<pre> Print result Enter Variable value 111222333 Print result 1112223332 </pre>

V#ADDCHKSUM43,x - Add modulus 43 check code

Syntax	V#ADDCHKSUM43,x	
Parameters	x = variable	
Description	Add the modulus 43 check code to x	
Example	<pre>Add modulus 43 check code to V00 ~MDELf,test ^Ftest ^Q60,0,0 ^L V00,16,Prompt V#ADDCHKSUM43,V00 AE,47,57,1,1,0,0,Date:^V00 E ^Ktest 111222334 E ~P1</pre>	<pre>Print result Enter Variable value 111222333 Print result 111222334</pre>

V#LINKDB,x,y - Like a Variable name for dBase data

Syntax	V#LINKDB,x,y	
Parameter	x = Column name of database y = Variable	
Description	Set a Variable name for dBase data. Before using this command, a dBase data should be opened first, and then can link dBase data to print designate data out. The number of links is limited to 10.	

V#OPx,p1,p2,p3 - Variable calculation

Syntax	V#OPx,p1,p2,p3	
Parameters	<p>x = +, -, *, /, % ; p1,p2,p3= variable</p> <p>x = +, p1=p2+p3</p> <p>x = -, p1=p2-p3</p> <p>x = *, p1=p2*p3</p> <p>x = /, p1=p2/p3</p> <p>x = %, p1=p2%p3</p>	
Description	<p>This command can calculate variables.</p> <p>*Note: the calculation result will be rounded off to integer value.</p>	
Example	<pre>V#OP+,V00,V01,V02 V#OP-,V00,V01,V02 V#OP*,V00,V01,V02 V#OP/,V00,V01,V02 V#OP%,V00,V01,V02</pre>	<pre>V00=V01+V02 V00=V01-V02 V00=V01*V02 V00=V01/V02 V00=V01%V02</pre>

V#RENAME,name,x - Variable rename

Syntax	V#RENAME,name,x	
Parameters	name = new name of the variable (max 8 characters) x = variable	
Description	Rename the variable.	
Example	<pre> ~MDELf,aaa ^Faaa ^Q50,0,3 ^AD ^L V00,10,Prompt V01,10,Prompt V#RENAME,weight,V00 V#RENAME,date,V01 AE,7,46,1,1,0,0,Weight is ^(weight) AE,7,86,1,1,0,0,Date is ^(date) E ^Kaaa 16 kg 11/20/2004 E ~P1 </pre>	<pre> Weight is 16 kg Date is 11/20/2004 </pre>

V#SETZERO,Vxx –Adjustment parameters bits with the same as parameter definition

Syntax	V#SETZERO,Vxx
Parameters	xx = 00 ~ 99 same as parameter definition.
Description	Adjustment parameters bits with the same as parameter definition

V#SETZERO,Vxx – Add zero before the variable number

Syntax	V#SETZERO,Vxx
Parameter is not valid	Parameter is not processed.
Parameters	Vxx : xx = 00 ~ 99 As variable definition
Description	Add zero before the variable number
Example	None

V#SET,INVISIBLE,Vxx – Hide the specified variable without printing

Syntax	V#SET,INVISIBLE,Vxx
Parameter is not valid	Parameter is not processed.
Parameters	Vxx : xx = 00 ~ 99 As variable definition
Description	Hide the specified variable without printing , Please refer to ^XSET,INVISIBLE,Vxx
Example	None

V#SET,FLOATFORMAT,X,Y,Vxx - handle the number of decimals

Syntax	V#SET,FLOATFORMAT,X,Y,Vxx	
Parameters	X : numbers after decimal point (0 ~ 127) Y = N : Rounded ; U : Round up ; = D : Round down xx = 00 ~ 99 same as parameter definition.	
Description	Use V#OPx,p1,p2,p3 and this command to perform floating point operation	
Example	<p>Send command :</p> <pre>~MDEL,001 ^F001 ^Q65,0,0 ^W100 ^L Dy2-me-dd Th:m:s V00,20,V00 V01,20,V01 V02,20,V02 V03,20,V03 V04,20,V04 V05,20,V05 V06,20,V06 V#OP+,V02,V00,V01 V#OP-,V03,V00,V01 V#OP*,V04,V00,V01 V#OP/,V05,V00,V01 V#OP%,V06,V00,V01 V#SET,FLOATFORMAT,3,N,V02 V#SET,FLOATFORMAT,3,N,V03 V#SET,FLOATFORMAT,4,U,V04 V#SET,FLOATFORMAT,5,D,V05 V#SET,FLOATFORMAT,3,N,V06 V#SET,UNPROMPT,V02 V#SET,UNPROMPT,V03 V#SET,UNPROMPT,V04 V#SET,UNPROMPT,V05 V#SET,UNPROMPT,V06 AE,040,30,1,1,0,0,TEST Variable calculation AF,080,110,1,1,0,0,^V00 + ^V01 = ^V02 AF,080,190,1,1,0,0,^V00 - ^V01 = ^V03 AF,080,280,1,1,0,0,^V00 X ^V01 = ^V04 AF,080,360,1,1,0,0,^V00 / ^V01 = ^V05 AF,080,440,1,1,0,0,^V00 % ^V01 = ^V06 E ^K001 144.14 13.088 E ~P1</pre>	<p>Print result :</p> <p>TEST Variable calculation</p> <pre>144.14 + 13.088 = 157.228 144.14 - 13.088 = 131.052 144.14 x 13.088 = 1886.5044 144.14 / 13.088 = 11.01314 144.14 % 13.088 = 1</pre>

V#SET,PROMPTONCE,Vx –only prompt the variable once while printing

Syntax	V#SET,PROMPTONCE,Vx
Parameters	Vx = number of Variable
Description	Printer will be asked for the variable only once when repeat print the same label format. x = variable
Example	V#SET,PROMPTONCE,V00

V#SET,THOUFORMAT,V00ab[c]

Syntax	V#SET,THOUFORMAT,V00ab[c]	
Parameters	a = the symbol will be displayed at Thousand point b = the symbol will be displayed at Decimal point c = the symbol will be displayed at End of number	
Description	The symbol will be displayed at Thousand point, Decimal point and End of number	
Example	Send command : ^Q50,0,0 ~MDELF,TEST ^FTEST ^L V00,10,V00 V01,10,V01 V02,10,V02 V#SET,UNPROMPT,V02 V#SET,FLOATFORMAT,2,0,V02 V#SET,THOUFORMAT,V02,,, V#OP+,V02,V00,V01 R22,14,774,378,10,10 AH,100,050,1,1,0,0,V00 = ^V00 AH,100,150,1,1,0,0,V01 = ^V01 AH,100,250,1,1,0,0,V02 = ^V02 E ^KTEST 1411.12 1333.23 ~P1 E	Print result : V00 = 1411.12 V01 = 1333.23 V02 = 2,744,35,

V#SET,UNPROMPT,x - Disable variable prompt

Syntax	V#SET,UNPROMPT,x	
Parameters	x = variable	
Description	This command can set the variable without prompt.	
Example	V#OP+,V00,V01,V02 V#SET,UNPROMPT,V00	Use doesn't need to input the value of V00

V#STRCPY,x,y - Copy all of variable data

Syntax	V#STRCPY,x,y	
Parameters	x = target variable y = source variable	
Description	Copy all data of y to x	
Example	V#STRCPY,V00,V01	Copy all of V01 data to V00

V#STRSUB,x,y,first,length - Copy part of Variable value

Syntax	V#STRSUB,x,y,first,length	
Parameters	x = target variable y = source variable first = the position of first character length = the number of characters	
Description	Copy part of y value to x	
Example	Copy year, month and day values respectively from a whole date variable. ~MDELf,test ^Ftest ^Q60,0,0 ^L V00,16,PromptV0 V01,16,PromptV1 V02,16,PromptV2 V03,16,PromptV2 V#STRSUB,V01,V00,5,2 V#STRSUB,V02,V00,8,2 V#STRSUB,V03,V00,0,4 V#SET,UNPROMPT,V01 V#SET,UNPROMPT,V02 V#SET,UNPROMPT,V03 AE,47,57,1,1,0,0,Date:^V00 AE,38,115,1,1,0,0,Month:^V01 AE,38,155,1,1,0,0,Day:^V02 AE,38,205,1,1,0,0,Year:^V03 E ^Ktest 2005/01/31 E ~P1	Print result: Date:2005/01/31 Month:01 Day:31 Year:2005

V#STRCUT,x,y,left,right - Discard part of Variable data

Syntax	V#STRCUT,x,y,left,right
Parameter is not valid	Parameter is not processed.
Parameters	x = target variable y = source variable left = the number of left characters right = the number of right characters
Description	Discard the number of left and right characters
Example	V#STRCUT,V01,V00,2,3


Vt,x,y,x_mul,y_mul,gap,rotationInverse,data - Print with downloaded character sets

Syntax	Vt,x,y,x_mul,y_mul,gap,rotationInverse,data	
Parameter	t = the font name; from A ~ Z To use UNICODE please setup as below: E → UTF8 L → UTF16 LO H → UTF16 HI (UTF16 characters should be end up with 4 0x00) data = Data string (up to 239 characters).	
Description	Download Bit-Mapped font to memory. All parameters are all the same with text command	
Example	VA,5,10,1,1,1,0,data	The name of font "A"

Vxx,length,prompt[,jnl][,sab] - Store variable

Syntax	Vxx,length,prompt
Parameter	<p>xx = a code name of the variable, from 00 ~ 99</p> <p>length = number of characters (up to 98 characters).</p> <p>prompt = prompt of variable (maximum up to 20 characters)</p> <p>j = Justification option</p> <p>n = l(for left), c(for center), r(for right)</p> <p>l = the length of entire string in millimeters (100mm for 4" printer ; 50mm for 2" printer)</p> <p>s = intercept option ; a = n , b = the length of intercept string</p> <p style="padding-left: 40px;">a = p , b = the ending string of data</p>
Description	Define variables for further use. If the input data characters more than the setup data length, firmware would only take the setup data length. For example, length = 3 , input data = apple . Printer will only print "app" (the first 3 words)

Wx,y,mode,type,ec[v],mask,mul,len,roatae<CR>data - Arrange QR code and Micro QR Code

Syntax	Wx,y,mode,type,ec[v],mask,mul,len,roatae<CR>data	
Parameters	<p>x = Hori. of left-bottom pos. of barcode (unit: dots)</p> <p>y = Vert. of left-bottom pos. of barcode (unit: dots)</p> <p>mode = input mode (1 ~ 5)</p> <ul style="list-style-type: none"> 1 → Numerical data mode 2 → Alpha numerical data mode 3 → 8-bit data mode* 4 → Kanji data mode 5 → Mixing mode (not available in Micro QR Code) <p>type = barcode type (1 ~ 2)</p> <ul style="list-style-type: none"> 1 → Model1 (original) 2 → Model2 (enhanced) 3 → Micro QR code <p>ec = error correction level (L · M · Q · H)</p> <ul style="list-style-type: none"> L → Low M → Medium Q → Medium high H → High (not available in Micro QR Code) <p>v = version (0~40)</p> <p>0 -> size adjustment automatically</p> <p>mask = masking factor (0 ~ 7 or 8 for auto). When printing with Micro QR code, it must be set to "0".</p> <p>mul = multiple (1 ~ 40)</p> <p>len = number of encoded data bytes, including carriage returns ␣ and line feed.</p> <p>roatae =rotation of barcode (0 ~ 3)</p> <p style="padding-left: 40px;">0) 0° 1) 90° 2) 180° 3) 270°</p> <p>data = bar code data.</p> <p>*Note: if input mode is set to 8-bit data mode, the first four digits of bar code data must</p>	
Description	Arrange QR-code by setting.	
Example	<p>Q50,0,0</p> <p>^L</p> <p>W10,10,2,1,L,8,10,36,0</p> <p>0123456789ABCDEFGHIJKLMNQRSTUW</p> <p>XYZ</p> <p>E</p>	<p>Data mode: 2</p> <p>Model type: 1</p> <p>Error level: L</p> <p>Masking factor: 8</p> <p>Multiple:10</p> <p>Data length: 36</p> <div style="text-align: center;">  </div>

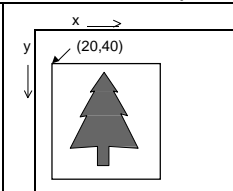
XRbX,y,enlarge,rotation[Saaabbb],length<CR>data - Arrange DataMatrix Code

Syntax	XRbX,y,enlarge,rotation[Saaabbb],length<CR>data
Parameters	x = Horizontal start position of barcode (unit: dots). y = Vertical start position of barcode (unit: dots). enlarge = Enlarge the DataMatrix Code 1~40 times (horizontally and vertically). rotation = rotation of barcode (0 ~ 3) 0) 0° 1) 90° 2) 180° 3) 270° aaa = rows to encode bbb = columns to encode length = data length (unit: bytes). data = bar code data.
Description	Arrange DataMatrix code.

XRbX,y,enlarge,rotationR,length<CR>data - Arrange Rectangular DataMatrix Code

Syntax	XRbX,y,enlarge,rotationR,length<CR>data
Parameters	x = Horizontal start position of barcode (unit: dots). y = Vertical start position of barcode (unit: dots). enlarge = Enlarge the DataMatrix Code 1~40 times (horizontally and vertically). rotationR = rotation of barcode (0R ~ 3R) 0R) 0° 1R) 90° 2R) 180° 3R) 270° length = data length (unit: bytes). data = bar code data.
Description	Arrange rectangular DataMatrix code.

Yx,y,name – Graphics file

Syntax	Yx,y,name
Parameter	x = Hori. Pos. of left-upper of graphics (unit: dots) y = Vert. Pos. of left-upper of graphics (unit: dots) name = Name of graphics download, the variable data can also be accepted.
Description	This command is for printing a graphic file that has been previously stored in printer memory.
	<p>Example: A graphic in printer named "Graphic1", command Y20, 40; Graphic1 ↵ will put this graphic into label at position (20, 40).</p> 

Zx,y,a,b,c,d,e,n<CR>data – Print Aztec Bar Code

Syntax	Zx,y,a,b,c,d,e,n<CR>data
Parameter	<p>x = Hori. of left-bottom pos. of barcode (unit: dots). y = Vert. of left-bottom pos. of barcode (unit: dots). a = rotation of barcode (0 ~ 3) 0) 0° 1) 90° 2) 180° 3) 270° b = Magnification factor (1 to 10) 1 on 150 dpi printers 2 on 200 dpi printers 3 on 300 dpi printers 6 on 600 dpi printers</p> <p>c = extended channel interpretation code indicator Y = if data contains ECICs N = if data does not contains ECICs</p> <p>d = error control and symbol size/type indicator. If the input data is not numeric, the beginning will be 000. 0 = default error correction level 01 to 99 = error correction percentage (minimum) 101 to 104 = 1 to 4 – layer compact symbol 201 to 232 = 1 to 32 – layer full - range symbol 300 = a simple Aztec “Rune”</p> <p>e = menu symbol indicator Accepted Values Y = if this symbol is to be a menu (bar code reader initialization) symbol N = if it is not a menu symbol</p> <p>n = data length : maximum = 2000 data = bar code data</p>
Description	Print a 2D Aztec
Example	Please refer to Appendix1 to see all 1D and 2D barcodes sample and commands.

LAN Set Commands

^NA,function[,p1] – setup SMTP

Syntax	^NA,function[,p1]									
Parameter	<p>Function = ENABLE: without “p1”, it will response SMTP enables or disables status. With “p1”. P1 = 0 disable SMTP , = 1 enable SMTP</p> <p>USER : without “p1”, it will response USER string (login SMTP server account) with “p1” = setup USER string Ex. ^NA,USER,godex</p> <p>PASS : without “p1”, it will response PASSWORD with “p1” = setup PASSWORD 4 digits (login SMTP server password) Ex. ^NA,PASS,0000</p> <p>IP : without “p1”, it will response SMTP IP address with “p1” = setup SMTP IP address Ex. ^NA,IP,192.168.0.1</p> <p>SUBJECT : without “p1”, it will response e-mail subject with “p1” = setup e-mail subject Ex. ^NA,SUBJECT,error message</p> <p>FROM : without “p1”, it will response e-mail sender address with “p1” = setup e-mail sender address Ex. ^NA,FROM,godex@godexintl.com</p> <p>TO : without “p1”, it will response e-mail receiver address with “p1” = setup e-mail receiver address Ex. ^NA,TO,godex@godexintl.com</p>									
Description	Refer to above Parameter explanation.									
Example	<p>Procedure :</p> <table border="1"> <tr> <td>PC to Printer</td> <td>^NA,USER</td> </tr> <tr> <td>Printer to PC</td> <td>godex</td> </tr> <tr> <td>PC to Printer</td> <td>^NA,SUBJECT</td> </tr> <tr> <td>Printer to PC</td> <td>errormessage</td> </tr> </table>		PC to Printer	^NA,USER	Printer to PC	godex	PC to Printer	^NA,SUBJECT	Printer to PC	errormessage
PC to Printer	^NA,USER									
Printer to PC	godex									
PC to Printer	^NA,SUBJECT									
Printer to PC	errormessage									

^NL[,TrapIP,Community] – setup SNMP

Syntax	^NL,TrapIP,Community					
Parameter	Without “TrapIP,Community”, it will response SNMP setting With “TrapIP,Community” = setup SNMP					
Description	Setup SNMP or check SNMP setting					
Example	<p>Procedure :</p> <table border="1"> <tr> <td>PC to Printer</td> <td>^NL</td> </tr> <tr> <td>Printer to PC</td> <td>192.168.0.1,public</td> </tr> </table>		PC to Printer	^NL	Printer to PC	192.168.0.1,public
PC to Printer	^NL					
Printer to PC	192.168.0.1,public					

^NL,ENABLE,n –enable or disable SNMP

Syntax	^NL,ENABLE,n	
Parameter	= 0 disable ; = 1 enable this function	
Description	Without “n”, it will response the status of SNMP (enable or disable) With “n” = setup SNMP enable or disable	
Example	None	

^NR[p[,ei[,sw]]] –setup LAN response

Syntax	^NR[p[,ei[,sw]]]													
Parameter	<p>p : 0 = adjust SMTP response setting ; 1 = adjust SNMP response setting. ei : 0 – 11</p> <p>0 = ERROR01 : PAPER_OUT_ID 1 = ERROR02 : PAPER_JAM_ID 2 = ERROR03 : RIBBON_OUT_ID 3 = ERROR04 : DOOR_OPEN_ID 4 = ERROR05 : STRIPPER_ERROR_ID 5 = ERROR06 : MEMORY_FULL_ID 6 = ERROR07 : FILENAME_NO_FOUND_ID 7 = ERROR08 : FILENAME_REPEAT_ID 8 = ERROR09 : SYNTAX_ERROR_ID 9 = ERROR10 : DATA_LENGTH_ERROR_ID</p> <p>sw : 0 = disable ; 1 = enable “ei” response function If doesn’t input parameter or input inappropriate parameter, it will only response current status.</p>													
Description	Refer to above Parameter explanation													
Example	<p>Procedure :</p> <table border="1"> <tr> <td>PC to Printer</td> <td>^NR</td> </tr> <tr> <td>Printer to PC</td> <td>SMTP : 1,1,1,1,1,1,1,1,1,1,0 SNMP : 1,1,1,1,1,1,1,1,1,1,1</td> </tr> <tr> <td>PC to Printer</td> <td>^NR,0</td> </tr> <tr> <td>Printer to PC</td> <td>SMTP : 1,1,1,1,1,1,1,1,1,1,0</td> </tr> <tr> <td>PC to Printer</td> <td>^NR,0,11</td> </tr> <tr> <td>Printer to PC</td> <td>0</td> </tr> </table>		PC to Printer	^NR	Printer to PC	SMTP : 1,1,1,1,1,1,1,1,1,1,0 SNMP : 1,1,1,1,1,1,1,1,1,1,1	PC to Printer	^NR,0	Printer to PC	SMTP : 1,1,1,1,1,1,1,1,1,1,0	PC to Printer	^NR,0,11	Printer to PC	0
PC to Printer	^NR													
Printer to PC	SMTP : 1,1,1,1,1,1,1,1,1,1,0 SNMP : 1,1,1,1,1,1,1,1,1,1,1													
PC to Printer	^NR,0													
Printer to PC	SMTP : 1,1,1,1,1,1,1,1,1,1,0													
PC to Printer	^NR,0,11													
Printer to PC	0													

^NMACADDR[addr] –setup or get MAC address information

Syntax	^NMACADDR[addr]
Parameter	addr = MAC address
Description	Without “addr”, it will response MAC address With “addr” = setup MAC address
Example	^NMACADDR,001D9A000C16

^NS[a,b,c,d,e,f,g,h,i] –Set and request for NET connection parameters

Syntax	^NSa,b,c,d,e,f,g,h,i					
Parameter	<p>a: D(DHCP) or P(PERMANENT) b: IP adress c: subnet mask adress d: gateway e: reserved f: reserved g: reserved h: reserved i: port number</p>					
Description	Without parameter, it will response current network setting With parameter = setup network					
Example	<p>Procedure :</p> <table border="1"> <tr> <td>PC to Printer</td> <td>^NS</td> </tr> <tr> <td>Printer to PC</td> <td>D,192.168.0.1,255.255.255.0,192.168.0.1,,,,,9100</td> </tr> </table>		PC to Printer	^NS	Printer to PC	D,192.168.0.1,255.255.255.0,192.168.0.1,,,,,9100
PC to Printer	^NS					
Printer to PC	D,192.168.0.1,255.255.255.0,192.168.0.1,,,,,9100					

^NW,BICONSHOW,n –Set The Display of Bluetooth Icon of LCD Main Menu

Syntax	^NW,BICONSHOW,n
effect & default	permanent , default = 1
parameter is not valid	Parameter is not processed.
Parameter	x = 0 , On the LCD main menu, BT doesn't display regardless of whether it BT card inserts or not inserts. x = 1, On the LCD main menu, BT icon displays along with the status of BT changes.
Description	Activate/deactivate the functions of LCD Bluetooth Icon
Example	^NW,BICONSHOW,1

Bluetooth Set Commands (7)

^NW,BINFO– Detect Bluetooth MAC Address

Syntax	^NW,BINFO	
effect & default		
Parameter is not valid		
Parameter		
Description	Applicable models: all printers To detect Bluetooth MAC address	
Example	Communication process as follows	
	PC to Printer	^NW,BINFO
	Printer to PC	001D9A000C16

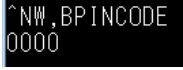
^NW,BVERSION –Detect Bluetooth module firmware version

Syntax	^NW,BVERSION	
effect & default		
Parameter is not valid		
Parameter		
Description	To detect Bluetooth module firmware version	
Example	If the Bluetooth module is not existing or damaged, it will send N.A <code>^NW,BVERSION</code> <code>BT : N.A</code>	
	If the Bluetooth module is existing and not MX series printer, it will send current firmware version. <code>^NW,BVERSION</code> <code>BT : GoDEX Ver20140905</code>	
	If the Bluetooth module is existing and with MX series printer, it will send current firmware version. <code>^nw,bversion</code> <code>BT : 25123715</code>	
	Note • Works with firmware version V1.00B (130816-01) and V2.001 (140312-01) or later.	

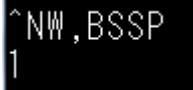
^NW,BNICKNAME,a –Change Bluetooth module printer model name

Syntax	^NW,BNICKNAME,a
effect & default	
Parameter is not valid	Parameter is not processed.
Parameter	a is the model name user wants to change to. The max. length of the name is 19 bytes.
Description	Change Bluetooth module printer model name(This command is valid when BT module is installed). When setting completed, the printer will beep once.
Example	<ul style="list-style-type: none"> To send command, ^NW,BNICKNAME,AB123 The printer model name that BT module transmits will become AB123. For example, you set the printer model name to RT823i and you can send command, ^NW,BNICKNAME to check the setting is successful as below. Read back parameter: <pre>^NW,BNICKNAME RT823i</pre> To delete the new model name, please send command, ^NW,BNICKNAME, (Please leave a space after",") When reboot the printer, it will go back to default model name. <p>Note 1 • Works with firmware version V2.00b (190814) or later</p> <p>^NW,BNICKNAME,BT_PRINTER Read back parameters <pre>^NW,BNICKNAME RT823i</pre> </p> <p>Note 1 • Works with firmware version V2.00b (190814) or later. Note 2 • If the parameter a is a blank "", it means that the Nickname parameter is cleared.</p>

^NW,BPINCODE,a – Change Bluetooth module pairing password

Syntax	^NW,BPINCODE,a
effect & default	
Parameter is not valid	Parameter is not processed.
Parameter	a is the pincode you want to set and the length is 4 bytes.
Description	To change Bluetooth module pairing password(this command is valid when Bluetooth module installed) It will beep once after setting successfully.
Example	<p>^NW,BPINCODE,1234 Read back parameters</p>  <p>Note 1 • Works with firmware version V2.00b (190814) or later. Note 2 • If parameter, a is a space “ ”, it means pin code goes back to 0000.</p>

^NW,BSSP,a – Enable / disable Bluetooth module pairing password input function

Syntax	^NW,BSSP,a
effect & default	
Parameter is not valid	Parameter is not processed.
Parameter	A is to enable or disable Bluetooth pairing password input function 0->Enable Bluetooth pairing password input function 1->Disable Bluetooth pairing password input function
Description	
Example	<p>^NW,BPINCODE,1 Read back parameter</p>  <p>Note 1 • Works with firmware version V2.00b (190814) or later.</p>

^NW,BBAUD,N –Change Bluetooth module communication baud rate

Syntax	^NW,BBAUD,N
effect & default	Default:115200
Parameter is not valid	Parameter is not processed.
Parameter	N=92, change Bluetooth module baud rate to 921600
Description	<p>Arm 9 printer and Bluetooth module communication baud rate is 921600 so need to change module baud rate through this command. When the change successfully, it will beep once. Applicable models: ZX1000/RT860i/RT700i/RT700iW Note 1 • Works with firmware version V1.00C (140219-01) and V2.001 (140312-01)or later. Note 2 • This command is invalid when the Bluetooth module installed Note 3 • MX series don't support this command.</p>
Example	None

^NW,BAUTOCONNECT,aaaaaaaaaa,b,c –Turn on/off the Bluetooth automatic connection device function

Syntax	^NW,BAUTOCONNECT,aaaaaaaaaa,b,c
effect & default	
Parameter is not valid	Parameter is not processed.
Parameter	<p>aaaaaaaaaaaa: 12-digit hexadecimal MAC address of the paired device b: Profile of the device to be paired 0→HID Device 1→SPP Device C: Turn on/off the automatic device connection function 0→ Turn off automatic pairing and connection 1→ Turn on automatic pairing and connection</p>
Description	<p>When this mode is turned on, the printer will try to connect to the Bluetooth device of the MAC specified by the user every 20 seconds The printer's buzzer will beep once after the connection is successful If the profile of the specified connected device is HID, you may have to enter the printer PIN code on the HID device and then press Enter to pair EX: If you want Bluetooth to automatically connect to the HID Device whose MAC is DC2C26DC31AC, the command settings are as follows :</p> <ul style="list-style-type: none"> ● ^NW,BAUTOCONNECT,DC2C26DC31AC,0,1 ● Command to read parameters: ^NW,BAUTOCONNECT <pre>^NW,BAUTOCONNECT BT Auto Connect mode [Disable] BT Auto Connect Profile [HID] BT Auto Connect Mac [DC:2C:26:DC:31:AC]</pre> <p>Note 1• Works with firmware version V2.100w (Dec 29 2020 11:44:18-01) or later</p>
Example	None

Wi-Fi Set Commands (5)

^NW,WVERSION – Detect WiFi module firmware version

Syntax	^NW,WVERSION
effect & default	
Parameter is not valid	
Parameter	
Description	To detect printer WiFi module firmware version
Example	<p>If WiFi module is not existing or damaged, it will send N.A</p> <pre>^nw,wversion Wi-Fi Version : N.A</pre> <p>If WiFi module is existing and not MX series model and it will send current firmware version.</p> <pre>^nw,wversion Wi-Fi Version : V0.44G</pre> <p>Note • Works with firmware version V2.006 or later.</p>

^NW,WSETAPSEARCH–Enable WiFi searching nearby AP status function

Syntax	^NW,WSETAPSEARCH
effect & default	
Parameter is not valid	
Parameter	
Description	<p>To enable WiFi search nearby AP function. When searching completed, the printer will beep once.(This function is available when the WiFi module installed.)</p> <p>The searching result can be printed through sending ~X10 command</p>
Example	Note • Works with firmware version V2.006 or later.

^NW,WSETDV–Go back to WiFi default

Syntax	^NW,WSETDV			
effect & default	Hereunder shows Kcodes default parameters			
	WLAN parameter		WPA parameter	
	SSID	TOSHIBATEC	Pre Shared Key	(Null(0x00))
	Roaming	-80	PSK Encryption	0 : TKIP
	Threshold		Method	
	Connection Mode	Infrastructure		
	Module Active	1 : (Enable)		
	Encryption parameter		Roaming parameter	
	Security	0 : None	Priority AP	1 : Priority AP
	WEP	0 : Open System		OFF
Authentication		MAC Address 1	(Null(0x00))	
WEP Default Key	1	MAC Address 2	(Null(0x00))	
WEP Key #1	(Null(0x00))	MAC Address 3	(Null(0x00))	
WEP Key #2	(Null(0x00))	MAC Address 4	(Null(0x00))	
WEP Key #3	(Null(0x00))	MAC Address 5	(Null(0x00))	
WEP Key #4	(Null(0x00))			
Parameter is not valid				
Parameter				
Description	Go back to WiFi module default, then the printer will reboot (This function is available when the WiFi module installed)			
Example	<p>Note 1 • Works with firmware version V2.006 or later.</p> <p>Note 2 • MX series doesn't support this command.</p>			

^NW,WSETRT-Set WiFi Roaming threshold

Syntax	^NW,WSETRT,a
effect & default	Default:-70
Parameter is not valid	Parameter is not processed.
Parameter	a:0~-99
Description	<p>To set WiFi module roaming threshold When the RSSI of WiFi module is lower than roaming threshold, it will start roaming function.</p> <p style="text-align: center;">Wi-Fi Module Signal strength fluctuation graph</p>
Example	^NW,WSETRT,-70 Note • Works with firmware version V2.006 or later.

^NW,WGETRT-Get WiFi Roaming threshold

Syntax	^NW,WGETRT
effect & default	
Parameter is not valid	
Parameter	
Description	To get WiFi roaming threshold value
Example	Note • Works with firmware version V2.006 or later.



^NW,WSETRoaming,n,sec– Set Mobile printer WiFi roaming function and time

Syntax	^NW,WSETRoaming,n,sec
effect & default	Default: n = 1(enable roaming function) sec = 30(second)
Parameter is not valid	
Parameter	n:0~1 0→ disable roaming function 1→ enable roaming function Sec:30~255(second) Note. Sec:10~255 after 2016/11/24 Note • Works with Mobile series
Description	Setting the WiFi Roaming time and function of mobile printer.
Example	<code>^NW,WSETRoaming,1,30</code>

^NW,WSETTYPE– Set WiFi module operation mode

Syntax	^NW,WSETTYPE,a
effect & default	Default:0
Parameter is not valid	Parameter is not processed.
Parameter	a:0~1 0→INFRA Mode 1→Ad Hoc Mode
Description	To set WiFi module operation mode
Example	^NW,WSETTYPE,0 Note 1 • Works with firmware version V2.006 or later.

^NW,WGETTYPE– Get WiFi module operation mode

Syntax	^NW,WGETTYPE
effect & default	
Parameter is not valid	
Parameter	<p>0→INFRA Mode</p> <p>Infrastructure Network</p>  <p>1→Ad Hoc Mode</p> <p>Ad Hoc Network</p> 
Description	To get WiFi module operation mode
Example	^NW,WGETTYPE 1 Note 1 • Works with firmware version V2.006 or later.

^NW,WSETMAE– Enable or disable WiFi module

Syntax	^NW,WSETMAE,a
effect & default	Default:1
Parameter is not valid	Parameter is not processed.
Parameter	a:0~1 0→Disable Wi-Fi Module Function 1→Enable Wi-Fi module Function
Description	To enable or disable WiFi module
Example	^NW,WSETMAE,1 Note • Works with firmware version V2.006 or later.

^NW,WGETMAE– Check WiFi module statu

Syntax	^NW,WGETMAE
effect & default	
Parameter is not valid	
Parameter	
Description	To get WiFi module status
Example	<pre>^NW , WGETMAE 1</pre> <p>0→Disable Wi-Fi Module Function 1→Enable Wi-Fi module Function Note • Works with firmware version V2.006 or later.</p>

^NW,WSETSCAN–Execute WiFi to search nearby AP function

Syntax	^NW,WSETSCAN,a
effect & default	
Parameter is not valid	Parameter is not processed.
Parameter	<p>a:0~1</p> <p>0→Only search AP and not output any information 1→Output related AP information after scanning</p>
Description	Enable WiFi to search nearby AP function and send back related AP info After searching completed, it will beep once.
Example	<pre>^NW , WSETSCAN, 1 024 00 WLAN511010 I None 00:50:7f:4a:24:60 -38 01 23123132 I None 00:50:7f:4a:24:61 -38 02 MXAPWPA2PER I WPA-AUTO 00:50:7f:4a:24:62 -38 03 WLAN510111 I WPA-AUTO 00:50:7f:4a:24:63 -38 04 GDX-BYOD I None 24:de:c6:97:57:80 -40 05 GDX-Employe I WPA-AUTO 24:de:c6:97:57:81 -40 06 GDX-Guest I None 24:de:c6:97:57:82 -40 07 AXM2300x I WPA 00:1d:aa:3a:c8:02 -40 08 MXAPWPA2PER I WPA-AUTO 00:1d:aa:3a:c8:03 -40 09 DrayTek-LAN I WPA-AUTO 00:1d:aa:3a:c8:00 -40 10 GDX-test I WPA-AUTO 24:de:c6:97:57:83 -42 11 WLAN511 I WPA-AUTO 00:1d:aa:3a:c8:01 -42 12 WLAN51111 I WEP d2:8c:b5:be:ad:05 -49 13 WIFIPRINTER I None de:8c:b5:be:ad:05 -52 14 MXAP I None d4:8c:b5:be:ad:05 -52 15 Wi-Fi AP I WPA-AUTO d6:8c:b5:be:ad:05 -52 16 GDX-Guest I None 24:de:c6:97:57:b2 -56 17 GDX-test I WPA-AUTO 24:de:c6:97:57:b3 -58 18 Tim_5D0B9B I WPA-AUTO a0:f3:c1:5d:0b:9b -60 19 HUAWEI-B525 I WPA-AUTO 10:b1:f8:14:a2:f4 -65 20 EBCE66BF-PE I WPA-AUTO 64:eb:8c:ce:66:bf -65 21 silverstone I WPA-AUTO b8:ec:a3:b3:0b:44 -67 22 HUAWEI-4C87 I WPA-AUTO 50:04:b8:c7:4c:87 -69 23 GDX-Employe I WPA-AUTO 24:de:c6:97:57:b1 -75</pre> <p>Note • Works with firmware version V2.00a or later.</p>

^NW,WSETJBSS—Connect to specify search number AP

Syntax	^NW,WSETJBSS,a,b,c,d	
effect & default		
Parameter is not valid	Parameter is not processed.	
Parameter	a:scan ap index b:wep/wpa key c:wep key index(range:1~4) d:wep auth mode(range:0~1) 0: open system 1: share key	
Description	Please send command, ^NW,WSETSCAN,1 before executing this command • The length limitation for parameter b is as follows. The length of wep key is 5/10/13/26 bytes The length of wpa key is 8~64 bytes	
Example	<pre> ^NW,WSETSCAN,1 024 00 DrayTek-LAN I WPA-AUTO 00:1d:aa:3a:c8:00 -32 01 AXM2300x I WPA 00:1d:aa:3a:c8:02 -32 02 MXAPWPA2PER I WPA-AUTO 00:1d:aa:3a:c8:03 -32 03 WLAN511 I WPA-AUTO 00:1d:aa:3a:c8:01 -34 04 GDX-BYOD I None 24:de:c6:97:57:80 -38 05 GDX-Employe I WPA-AUTO 24:de:c6:97:57:81 -40 06 GDX-Guest I None 24:de:c6:97:57:82 -40 07 GDX-test I WPA-AUTO 24:de:c6:97:57:83 -40 08 MXAPWPA2PER I WPA-AUTO 00:50:7f:4a:24:62 -40 09 WLAN511010 I None 00:50:7f:4a:24:60 -42 10 GoDEXwep I WEP 00:50:7f:4a:24:61 -42 11 WLAN510111 I WPA-AUTO 00:50:7f:4a:24:63 -42 12 WiFiAP I WPA-AUTO d6:8c:b5:be:ad:05 -51 13 MXAP I None d4:8c:b5:be:ad:05 -52 14 WIFIPRINTER I None de:8c:b5:be:ad:05 -52 15 WLAN51111 I WEP d2:8c:b5:be:ad:05 -52 16 GDX-BYOD I None 24:de:c6:97:57:b0 -59 17 GDX-Guest I None 24:de:c6:97:57:b2 -60 18 GDX-test I WPA-AUTO 24:de:c6:97:57:b3 -60 19 Tim 5D0B9B I WPA-AUTO a0:f3:c1:5d:0b:9b -61 20 GDX-Employe I WPA-AUTO 24:de:c6:97:57:b1 -61 21 HUAWEI-4C87 I WPA-AUTO 50:04:b8:c7:4c:87 -67 22 silverstone I WPA-AUTO b8:ec:a3:b3:0b:44 -67 23 HUAWEI-B525 I WPA-AUTO 10:b1:f8:14:a2:f4 -69 </pre>	<p>If you want to connect to an AP (code 13-MXAP) whose encryption method is None, please send following command.</p> <ul style="list-style-type: none"> • ^NW,WSETJBSS,13 <p>If you want to connect to an AP (code 11-WLAN510111) whose encryption method is WPA, please send following command.</p> <ul style="list-style-type: none"> • ^NW,WSETJBSS,11,godexabc123 <p>If you want to connect to an AP(code 15-WLAN51111) whose encryption method is WEP, please send following command.</p> <ul style="list-style-type: none"> • ^NW,WSETJBSS,15,8888888888,2,0 <p>Note • Works with firmware version V2.00a or later.</p>



External Card Set Commands (1)



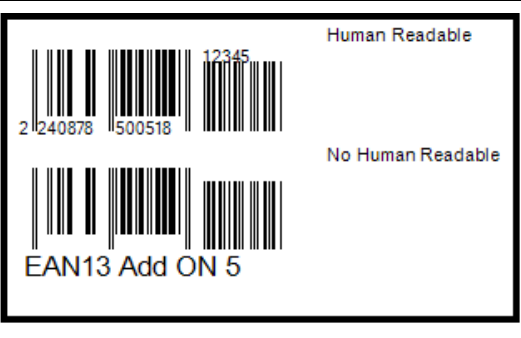



^XSET,EXTERNCARDMODE,n –Set external card mode

Syntax	^XSET,EXTERNCARDMODE,n
effect & default	
Parameter is not valid	
Parameter	<p>The meaning of each bit under parameter n is as follows</p> <p>Bit 7 Bit 6 Bit 5 Bit 4 Bit 3 Bit 2 Bit 1 Bit 0</p> <p>255 → default card detection mode</p>
Description	To set external card mode
Example	^XSET,EXTERNCARDMODE,253 (it means power on, it won't detect Kcodes module.) ^XSET,EXTERNCARDMODE,1 (it means power on, it will execute BLE4.0.)













Appendix











I. Barcode Samples




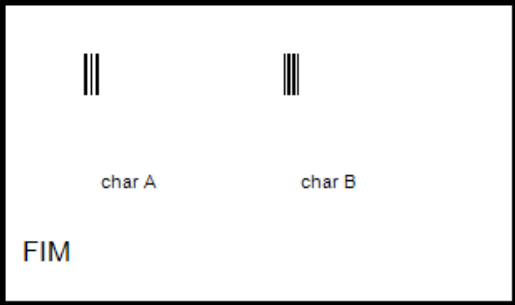
Barcode Type	Barcode Sample	Sample Commands
Code 39		^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BA,30,57,2,6,80,0,1,22-.\$ /+%40 BA,30,200,2,5,80,0,0,22-.\$ /+%40 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,Code39 E
Code 39 with check digit		^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BA2,30,57,2,6,80,0,1,22-.\$ /+%40 BA2,30,200,2,5,80,0,0,22-.\$ /+%40 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,Code39 with check E
EAN 8		^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BB,30,57,2,5,80,0,1,22408785 BB,30,200,2,5,80,0,0,22408785 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,EAN8 E
EAN 8 - Add ON 2		^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BC,30,57,2,5,80,0,1,2240878412 BC,30,200,2,5,80,0,0,2240878412 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,EAN8 Add ON 2 E
EAN 8 - Add ON 5		^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BD,30,57,2,5,80,0,1,2240878512345 BD,30,200,2,5,80,0,0,2240878512345 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,EAN8 Add ON 5 E




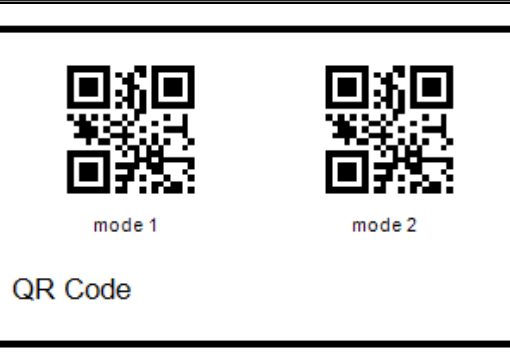
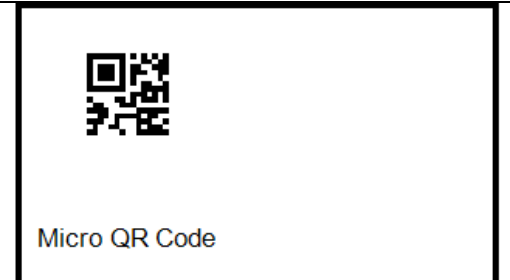
EAN 13		^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BE,30,57,2,5,80,0,1,2240878500518 BE,30,200,2,5,80,0,0,2240878500518 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,EAN13 E
EAN 13 - Add ON 2		^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BF,30,57,2,5,80,0,1,224087850051812 BF,30,200,2,5,80,0,0,224087850051812 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,EAN13 Add ON 2 E
EAN 13 - Add ON 5		^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BG,30,57,2,5,80,0,1,224087850051812345 BG,30,200,2,5,80,0,0,224087850051812345 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,EAN13 Add ON 5 E
UPC A		^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BH,30,57,2,5,80,0,1,224087855173 BH,30,200,2,5,80,0,0,224087855173 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,UPC A E
UPC A - Add ON 2		^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BI,30,57,2,5,80,0,1,22408785517312 BI,30,200,2,5,80,0,0,22408785517312 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,UPC A Add ON 2 E
UPC A - Add ON 5		^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BJ,30,57,2,5,80,0,1,22408785517312345 BJ,30,200,2,5,80,0,0,22408785517312345 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,UPC A Add ON 5 E



UPC E	<p style="text-align: right;">Human Readable</p> <p style="text-align: right;">No Human Readable</p> <p>UPC E</p>	<p>^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BK,30,57,2,5,80,0,1,2240879 BK,30,200,2,5,80,0,0,2240879 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,UPC E E</p>
UPC E - Add ON 2	<p style="text-align: right;">Human Readable</p> <p style="text-align: right;">No Human Readable</p> <p>UPC E Add ON 2</p>	<p>^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BL,30,57,2,5,80,0,1,224087912 BL,30,200,2,5,80,0,0,224087912 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,UPC E Add ON 2 E</p>
UPC E - Add ON 5	<p style="text-align: right;">Human Readable</p> <p style="text-align: right;">No Human Readable</p> <p>UPC E Add ON 5</p>	<p>^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BM,30,57,2,5,80,0,1,224087912345 BM,30,200,2,5,80,0,0,224087912345 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,UPC E Add ON 5 E</p>
I 2 of 5	<p style="text-align: right;">Human Readable</p> <p style="text-align: right;">No Human Readable</p> <p>I 2 of 5</p>	<p>^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BN,30,57,2,5,80,0,1,22408785 BN,30,200,2,5,80,0,0,22408785 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,I 2 of 5 E</p>
Codabar	<p style="text-align: right;">Human Readable</p> <p style="text-align: right;">No Human Readable</p> <p>Codabar</p>	<p>^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BO,30,57,2,5,80,0,1,A22408785D BO,30,200,2,5,80,0,0,A22408785D AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,Codabar E</p>
Code 93	<p style="text-align: right;">Human Readable</p> <p style="text-align: right;">No Human Readable</p> <p>Code93</p>	<p>^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BP,30,57,2,5,80,0,1,22408785Godex BP,30,200,2,5,80,0,0,22408785Godex AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,Code93 E</p>

Code 128 (auto subset A/B/C)	 Human Readable 22408785Godex  No Human Readable Code128 auto	^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BQ,30,57,2,5,80,0,1,22408785Godex BQ,30,200,2,5,80,0,0,22408785Godex AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,Code128 auto E
Code 128 (subset A/B/C)	 Human Readable 22408785GODEX  No Human Readable Code128 subset A	^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BQ2,30,57,2,5,80,0,1,A22408785GODEX BQ2,30,200,2,5,80,0,0,A22408785GODEX AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,Code128 subset A E
UCC 128	 Human Readable (00)2 2408785 123456789 5  No Human Readable UCC128	^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BR,30,57,2,5,80,0,1,0022408785123456789 BR,30,210,2,5,80,0,0,002240878512345678 9 AB,400,25,1,1,0,0,Human Readable AB,400,180,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,UCC128 E
Post NET	 Human Readable 224084  No Human Readable Post NET 5	^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BS,30,100,2,5,80,0,1,22408 BS,30,230,2,5,80,0,0,22408 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,Post NET 5 E
ITF 14	 Human Readable 0 12 34501 1238  No Human Readable ITF14	^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BT,30,57,2,5,80,0,1,012345011238 BT,30,200,2,5,80,0,0,01234011238 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,ITF14 E
EAN 128	 Human Readable (00)100844237449200941  No Human Readable EAN128	^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BU,30,57,2,5,80,0,2,0010084423744920094 1 BU,30,200,2,5,80,0,0,001008442374492009 41 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,EAN128 E

RPS 128	 <p>Human Readable 2240878522408785123452</p>  <p>No Human Readable</p> <p>RPS128</p>	^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BV,30,57,2,5,80,0,1,224087852240878512345 BV,30,200,2,5,80,0,0,224087852240878512345 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,RPS128 E
China Postal Code	 <p>Human Readable 22408785</p>  <p>No Human Readable</p> <p>China Postal Code</p>	^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BW,30,57,2,5,80,0,1,22408785 BW,30,200,2,5,80,0,0,22408785 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,China Postal Code E
HIBC	 <p>Human Readable 22-.\$ /+%40</p>  <p>No Human Readable</p> <p>HIBC</p>	^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BX,30,57,2,6,80,0,1,22-.\$ /+%40 BX,30,200,2,6,80,0,0,22-.\$ /+%40 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,HIBC E
Plessey	 <p>Human Readable 22408785</p>  <p>No Human Readable</p> <p>Plessey MSI2 1 mod10</p>	^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BY,30,57,2,5,80,0,1,22408785 BY,30,200,2,5,80,0,0,22408785 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,Plessey MSI2 1 mod10 E
I 2 of 5 with Shipping Bearer Bars	 <p>Human Readable 22408785123457</p>  <p>No Human Readable</p> <p>I 2 of 5 with Shipping Bearer Bars</p>	^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 BZ,30,57,2,5,80,0,1,2240878512345 BZ,30,200,2,5,80,0,0,2240878512345 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AC,36,300,1,1,0,0I,I 2 of 5 with Shipping Bearer Bars E

<p>UCC/EAN-128 K-MART</p>	 <p>Human Readable</p> <p>(22)4087858901234567</p> <p>No Human Readable</p> <p>UCC/EAN 128 K-MART</p>	<p>^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 B1,30,57,2,5,80,0,1,224087858901234567 B1,30,200,2,5,80,0,0,224087858901234567 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,UCC/EAN 128 K-MART E</p>
<p>UCC/EAN-128 RANDOM</p>	 <p>Human Readable</p> <p>(22)40878522408785678224087852240878</p> <p>No Human Readable</p> <p>UCC/EAN 128 RANDAN</p>	<p>^L Dy2-me-dd Th:m:s R8,13,631,790,8,8 B2,500,60,2,5,80,1,1,2240878522408785678224087852240878 B2,250,60,2,5,80,1,0,2240878522408785678224087852240878 AB,550,400,1,1,0,1,Human Readable AB,300,400,1,1,0,1,No Human Readable AD,36,720,1,1,0,0I,UCC/EAN 128 RANDAN E</p>
<p>Telepen</p>	 <p>Human Readable</p> <p>22408785</p> <p>No Human Readable</p> <p>Telepen</p>	<p>^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 B3,30,57,2,5,80,0,1,22408785 B3,30,200,2,5,80,0,0,22408785 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,Telepen E</p>
<p>FIM</p>	 <p>char A</p> <p>char B</p> <p>FIM</p>	<p>^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 B4,110,80,1,1,50,0,1,A B4,350,80,1,1,50,0,1,B AB,130,220,1,1,0,0,char A AB,370,220,1,1,0,0,char B AD,36,300,1,1,0,0I,FIM E</p>

GS1 Databar	 <p>Human Readable (12)345678(90)000 No Human Readable GS1 Databar</p>	^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 B55,30,57,2,5,80,0,1,1234567890000 B55,30,200,2,5,80,0,0,1234567890000 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,GS1 Databar E
Maxicode	 <p>MaxiCode</p>	^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 M200,50,1,1,2,840,068107317,666,0,123456 AD,36,300,1,1,0,0I,MaxiCode E
PDF417	 <p>PDF 417</p>	^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 PC50,100,3,10,3,3,3,19 &*01234567 012&* AD,36,300,1,1,0,0I,PDF 417 E
QR Code	 <p>mode 1 mode 2 QR Code</p>	^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 W100,60,1,1,M,8,7,10,0 0123456789 W400,60,1,2,M,8,7,10,0 0123456789 AB,130,230,1,1,0,0,mode 1 AB,430,230,1,1,0,0,mode 2 AD,36,300,1,1,0,0I,QR Code E
Micro QR Code	 <p>Micro QR Code</p>	^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 W100,80,1,3,M,0,7,10,0 0123456789 AD,36,300,1,1,0,0I,Micro QR Code E

<p>DataMatrix (Square)</p>	<div data-bbox="588 114 1185 468" style="border: 2px solid black; padding: 10px; text-align: center;">  <p>DataMatrix Code Square</p> </div> <p>^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 XRB250,100,7,0,50 01234567890123456789012345678901234567890123456789 AD,36,300,1,1,0,0I,DataMatrix Code Square E</p>
<p>DataMatrix (Rectangular)</p>	<div data-bbox="593 725 1181 1070" style="border: 2px solid black; padding: 10px; text-align: center;">  <p>DataMatrix Code Rectangle</p> </div> <p>^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 XRB180,100,7,0R,50 01234567890123456789012345678901234567890123456789 AD,36,300,1,1,0,0I,DataMatrix Code Rectangle E</p>

II. Command Examples

How to construct a label using EZ-Series command:

To create a label, it must be an order command combination.

Control command And Setup up command	
^L	^L is precedent for the beginning of label format
Label format command	} Label format command must be included between the ^L and E command
E	

** Control or setup commands to be used in the label command area will be ineffective.

Example:

The following example is printing a label with EAN8. The program is a text file. No matter what language you use in programming, simply send out the text file of the contents and you can control the printing with EZ-Series printers.

Save the following contents (command file named: EX1.TXT).

Program command	Description
^Q25,3	Setting up the height 25mm, gap 3mm
^W32	Setting up the width 32mm
^H10	Setting up the darkness 10
^S6	Setting up the speed 6 inches per second
^P1	Setting up the number of printing 1
^E10	Setting up the paper advance length to 10 mm from the print head after printing. The label will move back 10 mm when the next label is printed.
^C1	Setting up the number of copies (start value is 1)
^O0	Setting up the Label Dispenser function to be turned OFF
^R0	Setting up the left margin 0 dot
^D0	Turning the cutting function off
^L	The label content of start symbol
BB,42,39,2,5,100,0,1,1234567	Select EAN8 label, data content is 1234567
E	Label content of stop symbol

The label can be created by the following MS-DOS command:

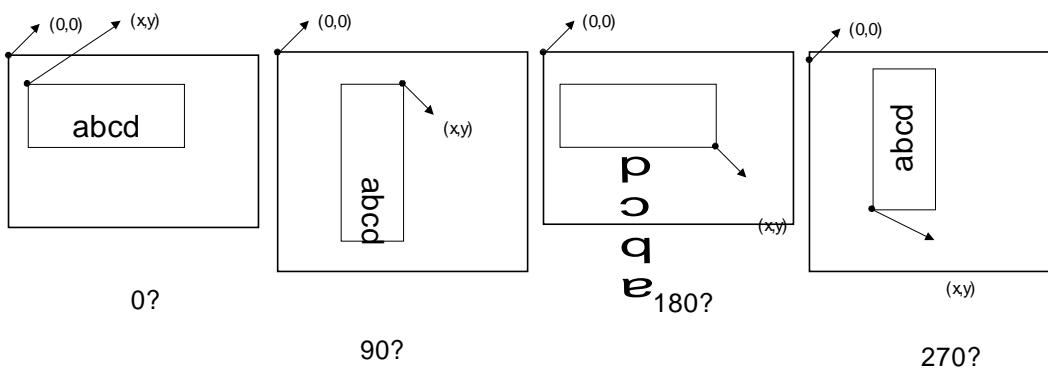
```
C:\>COPY EX1.TXT PRN␣
```

To send the label to serial port by the following MS-DOS command:

```
C:\>MODE COM1 96,N,8,1
```

```
C:\>TYPE EX1.TXT >> COM1
```

Setting the x and y values:





1. Text

Example	Result	Rotate printing	Result
^Q50,0,2 ^W50 ^S6 ^H10 ^R10 ~D8,27,00,8,39,36 ^L AC,10,10,1,1,1,0,PRINTER AC,10,50,1,1,1,0,^D AC,10,100,1,1,1,0,^T E	PRINTER AUG/27/00 08:39:36	^Q50,0,0 ^W50 ^S6 ^H10 ^L AC,100,30,1,1,1,0,ROTATION 0 AC,38,0,1,1,1,1,ROTATION 90 AC,260,150,1,1,1,2,ROTATION 180 AC,290,200,1,1,1,3,ROTATION 270 E	ROTATION 0 ROTATION 90 ROTATION 180 ROTATION 270
Adjusting the character spacing	Result	Asia Font	Result
^Q30,0,0 ^W50 ^S6 ^H10 ^L AC,10,10,1,1,10,0,PRINTER AC,10,100,1,1,1,0,PRINTER E	PRINTER PRINTER	^L AZ,100,12,1,1,0,4,中文 AZ,223,65,1,1,0,5,中文 AZ,60,100,1,1,0,6,中文 AZ,90,144,1,1,0,7,中文 E	中文 中文 中文 中文

The data output is a default setting and user can change it with ~D command (refer to page46).
 The time output format is a default setting and user can change it with T command.

2. Barcode

Example	Result	Rotation of barcode	Result
^H10 ^S6 ^Q30,0,2 ^W60 ^L BB,20,100,3,3,100,0,1,1234567 E		^H10 ^S6 ^W25 ^Q30,0,2 ^L BE,100,20,2,4,80,1,1,123456789 012 E	

3. RTC Setting

Change the date formatting	Result
Dy4-me-dd	2000-MAY-29
Dy4/mn/dd	2000/05/29
Dmn dd y4	05 29 2000
Dy4	2000
Dme	MAY
Ddd	09
Dy4-me	2000-MAY
Dme-dd	MAY-29

4. Line printing

Example	Description	Result
^Q50,3 ^W100 ^E32 ^H7 ^P1 ^S6 ^L Lo,212,45,311,53 Lo,244,11,252,128 Le,34,43,149,51 Le,72,8,80,121 E	; Darkness= 7 ; Speed = 6 inch/second ; Label height = 50mm, gap = 3 mm ; Label width = 100mm	

5. Rectangle printing

Example	Description	Result
^H10 ^S6 ^Q50,2 ^W70 ^L R20,20,120,120,8,8 E	; Darkness = 10 ; Speed = 6 inch/second ; Label height = 50mm, gap = 2 mm ; Label width= 70mm ; (x,y) = (20,20), ; (x1,y1) = (120,120) lrw = 8 dots, ubw = 8 dots	


6. PDF417

Example	Result
^Q50,0,3 ^W70 ^S6 ^H10 ^L P30,20,3,3,3,3,1,100 12345678 12345678 12345678 12345678 12345678 12345678 12345678 12345678 12345678 12345678 E	

7. Maxicode

Example	Result
^Q50,0,0 ^W70 ^S6 ^H10 ^L M30,20,1,1,2,840,068107317,8,0,123456 E	

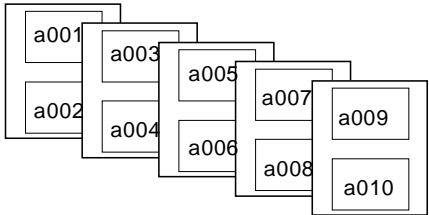
8. DataMatrix Code

Example	Result
^Q60,3 ^W80 ^H19 ^P1 ^S2 ^L XRB314,134,8,0,10 0123456789 XRB312,438,8,0R,10 0123456789 E	

9. Label Dispenser setting

Example	Result
^Q50,2 ^W50 ^S6 ^O1 ^E8 ^P1 ^H10 ^L AD,20,20,1,1,3,0, Label Dispenser Function E	; Label height= 50mm, gap= 2mm ; Label width= 50mm ; Speed =6 inch/second ; Label Dispenser enable ; Set stop position to 8 mm ; Printing one label ; Darkness = 10 ; Label format begin sign ; Label format end and begin print

10. Cutter setting

Example	Description	Result
^Q20,0,0 ^H5 ^S2 ^P10 ^D2 ^C1 ^L R10,10,120,90,2,2 C0,001,+1,A1 AC,20,30,1,1,1,0,a^C0 E	;plain paper length:20mm ;feed label length :0mm ;print 10 labels ;2 labels per cut	


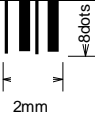
11. Serial number

TEXT			
Example 1	Result	Example 2	Result
^Q10,0,0 ^W30 ^S6 ^H10 ^P10 ^L C0,0000,+2,A1 AB,10,10,1,1,2,0,^C0 E	0018 0016 0014 0012 0010 0008 0006 0004 0002 0000	~P10 If you want to continue printing 10 more serial numbers that is starting from 0018, enter the command “~P10”. With this command you do not have to re-enter all the command in example.	0038 0036 0034 0032 0030 0028 0026 0024 0022 0020
Example 3	Result	Example 4	Result
^Q10,0,0 ^W30 ^S6 ^H10 ^P4 ^C2 ^L C0,0000,+2,A1 AB,10,10,1,1,2,0,^C0 E	0006 0006 0004 0004 0002 0002 0000 0000	^Q10,0,0 ^W30 ^S6 ^H10 ^P8 ^L C0,0000,+2,A1 AB,10,10,1,1,2,0,abc^C0def E	abc0014def abc0012def abc0010def abc0008def abc0006def abc0004def abc0002def abc0000def
Barcode			
Barcode with serial number	Result		
^H10 ^S6 ^Q20,0,2 ^W50 ^P10 ^L C0,000,-1,A3 BE,20,100,3,3,100,0,1,111111^C0111 E			



12. Graphic driver format

Example	Description
<pre> ^Q20,2 ^W50 ^R20 ~G G(AA G(AA G(AA G(AA G(AA G(AA G(AA G(AA G(AA G(AA G(AA G(AA G(AA G(AA G(AA G(AA E </pre>	<p>; Left margin = 20 dots</p> <p>For this example, ASCII “(“character is 40 decimal (=40 bytes). Total 14 lines, so the graphics height is 1.75mm (14 dots)</p>
	<p>Result</p> <pre> XX </pre>

13. Pattern command setting

Example	Result
<pre> ^Q,20,0,0 ^W40 ^S6 ^D5 ^L Q40,10,2,8 GGGGGGGGGGGGGGGGGG E </pre>	 Length: 2x8=16
Description	
<pre> 0100011101000111 0100011101000111 0100011101000111 0100011101000111 0100011101000111 0100011101000111 0100011101000111 0100011101000111 </pre> <p style="text-align: center;">HEIGHT = 8 DOTS</p> <p style="text-align: center;">← 1 BYTE ← 1 BYTE</p> <p style="text-align: center;">← WIDTH = 2 BYTES</p> <p style="text-align: center;">G : 01000111 (binary)</p>	


14. Rotate label format for printing

Example	Description	Result
<pre> ^Q40,2 ^W50 ^S6 ^H10 ~R50 ^L AC,153,42,1,1,1,2,ROTATE BB,156,112,2,5,50,2,1,1234567 E </pre>	; Label size is 40 mm(h) x 50 mm(w); 2 mm gap ; Rotate the label format 180° for printing	
<pre> ^Q50,0,0 ~R200 ^L AC,20,10,1,1,1,0,ROTATE BB,20,45,2,5,50,0,1,1234567 E </pre>	; Disable the rotate function	

15. Download graphic to printer's memory

Following the below steps to download graphic to printer.

1. Prepare a graphic file (file name: TREE.PCX, file size: 922 bytes).
2. Prepare two text files (TEST1.TXT and TEST2.TXT, see the following contents).

TEST1.TXT	TEST2.TXT	Print Result
<pre> ~EP,TREE,922 </pre>	<pre> ^Q30,0,0 ^W50 ^S2 ^H5 ^L Y30,50,TREE E </pre>	

3. In DOS mode, running the following commands.

```




COPY TEST1.TXT PRN.␣
COPY TREE.PCX PRN/B.␣
COPY TEST2.TXT PRN.␣

```

16. Download label and variable settings


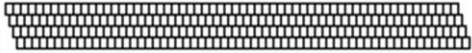
Example	Description
^Ftest ^Q50,0,15 ^W70 ^H10 ^S6 ^E12 ^L C0,0000,+1,serial no. V00,10,name V01,8,barcode V02,6,price AE,108,306,1,1,1,0,\$^V02 AC,39,27,1,1,1,0,S/N.^C0 AD,126,78,1,1,1,0,^V00 BA,108,135,2,5,100,0,1,^V01 E	; Download label to memory card and the label name is "test". ; Setting serial number is C0 ; Setting three variables V00, V01, V02

17. Recall label format from memory

Example 1	Description	Result
^Ktest 0000 Book 12345678 200.00 E ~P1	Recall label format without changing the label format C0 = 0000 V00 = book V01 = 12345678 V02 = 200.00	S/N.0000 book  * 12345678 * \$200.00
Example 2	Description	Result
^Ktest 1111 Pencil 12345678 100.00 E ^Q35,0,0 ^S6 ^H10 ~P2	Recall label format and change label format C0 = 1111 V00 = pencil V01 = 12345678 V02 = 100.00 Changing the size Changing speed to 6"/sec Changing darkness to 10 Printing the last label twice	S/N.1111 Pencil  * 12345678 * \$100.00 S/N.1112 Pencil  * 12345678 * \$100.00

Each time you change variable data or label format, repeat to send command from ^Kname to ~Px.

18. Print head test & Version list

Example	Result
~T	
~V	<div style="border: 1px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: auto;"> <p>EZXXXX : VX.XXX Serial port :96,N,8,1</p>  <p>1 DRAM installed Image buffer size : 1475K 000 FORM(S) IN MEMORY 000 GRAPHIC(S) IN MEMORY 000 FONT(S) IN MEMORY 000 ASIAN FONT(S) IN MEMORY 150K BYTES FREE MEMORY ^S6 ^H8 ^R000 ~R200 ^W100 ^Q100,3 Option : ^D0 ^O0 ^AD Gap Sensor AD : 129 162 195 (3)</p> </div>

19. Use variable settings

	Example	Result
<p>1. User input unit price and amount. Printer calculates total price.</p>	<pre>~MDELF,test1 ^Ftest1 ^Q60,0,0 ^P1 ^L V00,10,Price V01,10,Amount V02,10,Total Price V#OP*,V02,V00,V01 V#SET,UNPROMPT,V02 AC,30,110,1,1,0,0,Price: ^V00 AC,30,189,1,1,0,0,Amount: ^V01 AE,30,273,1,1,0,0,Total Price: ^V02 E ^Ktest1 100 3 E ~P1</pre>	<pre>Price: 100 Amount: 3 Total Price: 300</pre>
<p>2. Calculation sample</p>	<pre>~MDELF,test2 ^Ftest2 ^Q60,0,0 ^L V00,10,Input V00 V01,10,Input V01 V02,10,Input V02 V03,20,Input V03 V04,20,Input V05,20,Input V06,20,Input V#OP+,V02,V01,V00 V#OP-,V03,V01,V00 V#OP*,V04,V01,V00 V#OP/,V05,V01,V00 V#OP%,V06,V01,V00 V#SET,UNPROMPT,V02 V#SET,UNPROMPT,V03 V#SET,UNPROMPT,V04 V#SET,UNPROMPT,V05 V#SET,UNPROMPT,V06 AA,38,37,1,1,0,0,V00=^V00 AA,38,77,1,1,0,0,V01=^V01 AE,38,115,1,1,0,0,V1+V0=^V02 AE,38,165,1,1,0,0,V1-V0=^V03 AE,38,215,1,1,0,0,V1*V0=^V04 AE,38,265,1,1,0,0,V1/V0=^V05 AE,38,315,1,1,0,0,V1 MOD V0=^V06 E ^Ktest2 10 20 E ~P1</pre>	<pre>V00=10 V01=20 V1+V0=30 V1-V0=10 V1*V0=200 V1/V0=2 V1 MOD V0 = 0</pre>

20. dBase III data setting

Example:

customer.dbf has following data

NAME	ADDRESS	PHONE
Tom	Address of Tom	11111111
Mary	Address of Mary	22222222
John	Address of John	33333333
Joe	Address of Joe	44444444
Bob	Address of Bob	55555555
Gilbert	Address of Gilbert	66666666

Example	Description	Result
<pre> ^Q60,0,0 ^P1 ^L FILEDB,OPEN,customer V00,10,Prompt0 V#LINKDB,PHONE,V00 FILEDB,FIND,NAME,Mary AC,79,120,1,1,0,0,Mary's phone: ^V00 E </pre>	Print out Mary's phone number	Mary's phone: 22222222
<pre> ^Q60,0,0 ^P1 ^L FILEDB,OPEN,customer V00,10,Prompt0 V#LINKDB,ADDRESS,V00 FILEDB,FIND,NAME,John AC,79,120,1,1,0,0, ^V00 E </pre>	Print out John Address	Address of John
<pre> ^Q60,0,0 ^P1 ^L FILEDB,OPEN,customer V00,10,Prompt V#LINKDB,NAME,V00 FILEDB,MOVE,LAST AC,79,120,1,1,0,0,Last Name is ^V00 E </pre>	Print out last person name	Last Name is Gilbert
<pre> ^Q60,0,0 ^P1 ^L FILEDB,OPEN,customer V00,10,Prompt V#LINKDB,NAME,V00 FILEDB,MOVE,2 AC,79,120,1,1,0,0,Second Name is ^V00 E </pre>	Print second person name	Second Name is Mary

^Q60,0,0 ^P3 ^L FILEDB,OPEN,customer C0,1,+1,DB Move C V00,10,name V01,10,phone V#LINKDB,NAME,V00 V#LINKDB,PHONE,V01 FILEDB,MOVE,C0 AC,79,120,1,1,0,0,^V00 Phone is ^V01 E	Print first, second and third person phone number	Tom Phone is 11111111 Mary Phone is 22222222 John Phone is 33333333
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About Code 128

BQ2, X, Y, NARROW, WIDE, HEIGHT, RTATION, READABLE, DATA

Code 128 Subset A: Included the standard uppercase alphanumeric keyboard characters, control and special characters.

Code 128 Subset B: Includes the standard uppercase, lowercase alphanumeric keyboard characters and special characters.

Code 128 Subset C: Used for double density encoding of numeric data (the set of 100 digit pairs from 00 through 99).

Example	
Subset A: BQ2,8,8,2,5,40,0,0,AAPPLE	To select Code 128 Subset A, place a ASCII A before the data to be encoded.
Subset B: BQ2,8,8,2,5,40,0,0,BAPPLE	To select Code 128 Subset B, place a ASCII B before the data to be encoded.
Subset C: BQ2,8,8,2,5,40,0,0,C1234	To select Code 128 Subset C, place a ASCII C before the data to be encoded.
Special character handling: BQ2,8,8,2,5,40,0,0,ATEST&G	To encode FNC1 into a Code 128 Subset A, send the ASCII &G.

ASCII	2 Character	Code A	Code B	Code C
96	&A	FNC3	FNC3	-NA-
97	&B	FNC3	FNC2	-NA-
98	&C	SHIFT	SHIFT	-NA-
99	&D	Code C	Code C	-NA-
100	&E	Code B	FNC	Code B
101	&F	FNC4	Code A`	Code A
102	&G	FNC1	FNC1	FNC1

Revision	Sections changed from previous release			Doc. date	Prepared
A	First Edition			2010/11/23	Chard Hu
B	Add "*" to CODE 39			2011/08/15	Chard Hu
Revision	Sections changed from previous release			Doc. date	Prepared
C	ADD	CANCEL	MODIFICATION	2012/10/19	Betty Tsou
	^Z	^Bx	^An		
	^XSET,ACTIVEMESSAGE,n	^Mx	^D+dddd.hh		
	^XSET,ALIAS,string	^XSET,CF_FORMAT,1	^Dx		
	^XSET,ERRORPRINT,n	^XSET,LANGUAGE,n	^Fname		
	^XSET,FEEDCUT,n	^XSET,LOCKCMD,xxxx	^Gn		
	^XSET,HEATOFFSET,n	^XSET,MEMORY,n	^L		
	^XSET,ROTATION,n	^XSET,PASSWORD,n,x	^On		
	^XSET,UNPROMPT,p1	^XSET,UNICODE,n	^PI		
	~MCPY	^XSET,USBETHERNET,n	^Qx,y(,z ■		
	~MDEL*	~G	^Sx		
	~MMOV	Xx,y,narrow,data	^XGET,CONFIG		
	~S,STATUS	XRx,y,narrow,rotate,data	^XSET,ACTIVERESPONSE,n		
	~X6		^XSET,CODEPAGE,n		
	~X9		^XSET,ERRORPRINT,n		
	PMx,y,w,h,r,c,ec,max_len,rotation		^XSET,HEATOFFSET,n		
	V#ADDCHECKSUM43,x		^XSET,KEYBOARD,n		
	V#SET,FLOATFORMAT,X,Y,Vnn		^XSET,ROTATION,n		
	V#SET,PROMPTONCE,p1		^XSET,TOPOFFFORM,n		
	V#SET,THOUFORMAT,V00ab[c]		^XSET,UNPROMPT,p1		
	Zx,y,a,b,c,d,e,n		^Yb,p,d,s		
	^NA,function[,p1]		~S,CHECK		
	^NL[,TrapIP,Community]		~S,n		
	^NL,ENABLE,n		~S,STATUS		
	^NR[,p[,ei[,sw]]]		~T		
	^NMACADDR[,addr]		~V		
^NS[a,b,c,d,e,f,g,h,i]		~Xn			
Firmware reversion difference between V1.xxx and G3.xxx		At,x,y,x_mul,y_mul,gap,rotationInverse,data			

Revision	Sections changed from previous release			Doc. date	Prepared
	ADD	CANCEL	MODIFICATION		
D	^XSET,AUTOTPHTEST,x			2013/08/08	Betty Tsou
	^XSET,FEEDTYPE,n				
	^XSET,PAGEDELAY,n				
	^XSET,REALLENGHTPRINT,n				
	^XSET,RECALLCRLF,n				
	^XSET,SENSING,n				
	^XSET,SPEEDDOWN,n				
	^XSET,TOPOFFFORM,n				
	^XSET,WHENTOSENSING,n				
	-S,OFFSETa,n				
	-S, ES[p1]				
	-PCB,MODELNAME[n],name				
	V#SETZERO,Vxx				

Revision	Sections changed from previous release			Doc. date	Prepared
	ADD	CANCEL	MODIFICATION		
E	^XSET,LOCKCMD,xxxx	^XSET,HEATOFFSET,n		2013/08/19	Betty Tsou
		^XSET,PAGEDELAY,n			
		^XSET,SPEEDDOWN,n			
		Firmware reversion difference between V1.xxx and G3.xxx			

Revision History

Ver: L->M

	New	Delete	Modify
	^XSET,DBSEARCH,n	^XSET,DRAWMODE,n	^XSET,LOCKCMD,xxxx –Add new parameter [yyyy]
	^XSET,DPIEMULATE,n	^XSET,RIBBONNEAREND,0 or 1	^XSET,PAUSEPRINT,n — Add new parameter [n = 2]
	^XSETCUT,DOCUTTING, 1	^XSET,RIBBONDIAMETER,n	Bt,x,y,narrow,wide,height,rotation,readable,data – Corrected the definition of Code 39
~X6		^XSET,RIBBONNEAREND,0 or 1	XRBx,y,enlarge,rotation[Saaabbb],length<CR>data –Add new parameter [Saaabbb]
~X7		^XSET,SCANNERMODE,n	
~X8		^XSET,SHOWDATETIME,n	
~X9		^XSET,SHUTDOWN,n,[s]	
	Bt,x,y,narrow,wide,height,rotation[Gaaa], readable,data	^XSET,SPEEDDOWN,n	
	Bt,x,y,narrow,wide,height,rotation[Babbc],readable,data	^XSET,STANDBY,n	
	B050,x, y, narrow, wide, height, rotation, readable,c,data	^XSET,TEARPAPERTIME,n	
	B051,x, y, narrow, wide, height, rotation, readable, h ,m,data		
	B052,x, y, narrow, wide, height, rotation, readable,c,r,m, data		
	B053, x,y,mul,len,roatae<CR>data		
	C#SET,UNPROMPT,x		
	V#STRCUT,x,y,left,right		
		Remove all LCD Set Commands items	