# **EZPL Programmer's Manual**



USER MANUAL : Programmer's Manual VERSION : Rev.J

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 : Rev.J

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### 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), 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.

\*All company and/or product names are trademarks and/or registered trademarks of their respective owners.

# **Setup Commands**

### ^An - Printing mode

Syntax	^An
	n = D, Direct thermal mode, the ribbon out sensor is disabled. n = T, Thermal transfer mode, the ribbon out sensor is enabled.
Description	<ol> <li>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.</li> <li>Send "^AD" command to printer to change the print mode to Direct Thermal Mode.</li> <li>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.</li> <li>* Note: this command will not be applied on Direct Thermal only models.</li> </ol>
Example	^AD ^L  E

# ^Bx - Set the backward length

Syntax	^Bx	
Parameter	$x = 1 \sim 1000 \text{ (unit: mm)}$	
Description	Set the backward 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	

# ^Cx -Number of copies per label

Syntax	^Cx	
Effect & Default	Permanent , default = ^C1	
Parameter is not valid	Parameter is not processed.	
Parameter	$x = 1 \sim 32767$ (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	Send command:  ^C2  ^P3  ^L  C0,001,+1,Prompt  AE,10,10,1,1,0,0,^C0  E  Example 2:  ^Flabel1  ^Q40,0,0	Print result :

^C^V00	
^PA1	
^L	00001
C0,0000001,+1,Counter	
V00,15,Variable	00001
AF,108,140,1,1,0,0,^C0	
AE,122,278,1,1,0,0,^V00	00001
E	
	Printer will auto print 3 pieces.
^Klabel1	
00001	
3	
E	

### ^D+dddd.hh - Date calculation function

Syntax	^D+dddd.hh	
Parameter	dddd = days in 4 digits. Set how many days to hh = hours in 2 digits. Set how many hours to	
Description	This command will set the specified days and date then print it.	hours forward based on the printer's current
Example	In this sample, the printer will print current time and count the date that is 5 days and 12 hours after current time.  Send command: ^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	Print result :  Manufactured Date: 05-JAN-01 12:00  Expire Date: 05-JAN-07

### ^Dx - Number of labels per cut

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

### ^Ex - Stop position setting

	· · · · · · · · · · · · · · · · · · ·
Syntax	^Ex
Parameter	x = 0-40 (unit: mm)
Description	Feed the paper to specific stop position.
Example	^E12
	^L
	E

### ^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	Download label file to the memory of printer. After the download is completed, the printer	
	will beep once (refer to page81).	
	^Fname	
	Control/Setup command	
	data < ^L	
	: Label format command : E	
	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.	
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	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.	
	To switch between different sensors, please do as follows:	
	<ol> <li>Make sure that the printer is on standby mode (LED light is green) and send below command to change the sensor setting.</li> <li>Send "^G0" command to printer to set the Reflective Sensor as active sensor.</li> <li>Send "^G1" command to printer to set the See-through Sensor as active sensor.</li> <li>Send "^G2" command to printer to change the sensor setting to Auto-mode.</li> </ol>	
	*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.	

# ^Hx - Print darkness setting

Syntax	^Hx
Parameter	$x = 00 \sim 19$
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 page81)		
·	*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\(^p\)rinting; n=1, 90\(^p\)rinting; n=2, 180\(^p\)rinting; n=3, 270\(^p\)rinting ( the same as ^XSET,ROTATION,n ) I, M, R can be used at the same time.			
Description	after ^Lx command. When rotates whole lab	Define the start sign of Label format. Commands to set up the label format should be listed		
Sample	Inverse Sample		Mirror Sample	
	Inverse Sample		Mirror Sample	

### ^Mx - Set the forward length

Syntax	^Mx		
Parameter	$x = 1 \sim 1000 \text{ (unit: mm)}$		
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		

# ^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 page77)
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 .) $x = ^V$ nn (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.		
	Send command :	Printer result :	
	^Flabel1 ^Q40,0,0 ^PA3	00001 Variable	
	\L \\\	00002	
	C0,0000001,+1,Counter V00,15,Variable	Variable	
	AF,108,140,1,1,0,0,^C0	00003	
	AE,122,278,1,1,0,0,^V00 E	Variable	
Example	^Klabel1 00001 Variable E	Printer will auto print 3 pieces. Printer will skip serial number.	
	Example2: ^Flabel1 ^Q40,0,0	00001	
	^PA^V00	00002	
	^L C0,0000001,+1,Counter	00003	

V00,15,Variable AF,108,140,1,1,0,0,^C0 E	Printer will auto print 3 pieces. Printer will skip serial number.
^Klabel1 00001 3 E	

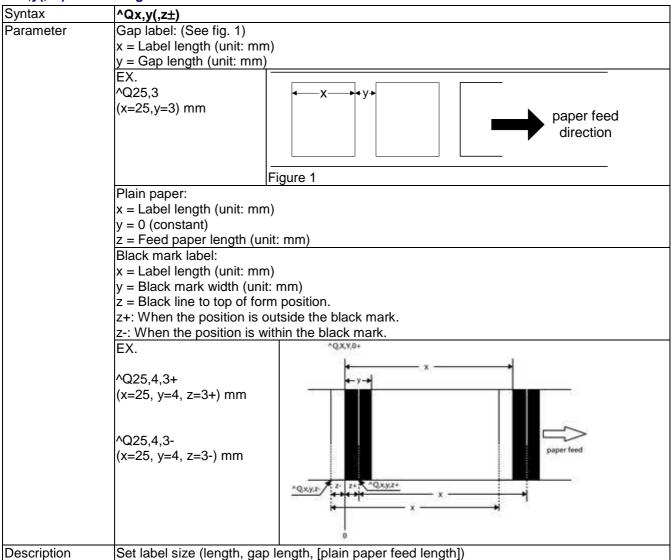
### ^Px - Number of pages printed

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	000003 Apple  000002 Apple  000001 Apple	

#### ^Qx,y(,z±) - Label length



#### ^Rx - Row column adjustment

Syntax	^Rx		
Parameter	$x = 0 \sim 399 \text{ dots}$		
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)
	^S4
Example	^L
Lvallible	
	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		
	<u>\000</u>		
	^D0		
	^E14		
	~R200		
	Dy4-me-dd Th:m:s		
	AD,90,154,1,1,0,0,Manufactured Day :^D ^T		
	AD,90,194,1,1,0,0,Mandiactured Day :^D -\1 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	The printer will return configure status (the content is same as Self-Test page) from RS232 or USB and display it on Hyper Terminal.		
Example	Procedure as be	elow :	
	PC to Printer	^XGET,CONFIG	
	Printer to PC	EZ1100P G3.007 Serial port:96,N,8,1  1 DRAM installed Image buffer Size:1500 KB 000 FORM(S) IN MEMORY 000 GRAPHIC(S) IN MEMORY 000 FONT(S) IN MEMORY 000 ASIAN FONT(S) IN MEMORY 000 DATABASE(S) IN MEMORY 000 TIF(S) IN MEMORY 2048 KB FREE MEMORY ^S3 ^H10 ^R000 ~R200 ^W102 ^Q100,3 ^E0 Option:^D0 ^00 ^AT Reflective Volt:2.4 3.1 3.9(1.4_1.1) Code Page: 850	

### **^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	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 R0857 = 1048 R0858 = 1052 R0859 = 1048 R0860 = 1048 R0861 = 1048 R0862 = 1048 R0863 = 1048 R0864 = 1048 R0864 = 1048 R0865 = 1048 R0866 = 1048 R0867 = 1048 R0867 = 1048 R0868 = 1048 R0868 = 1048 R0869 = 1048 R0869 = 1048 R0869 = 1048 R0869 = 1048 R0869 = 1048 R0869 = 1048

### ^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:		
	PC to Printer ^XSET,ACTIVERESPONSE,1		
	Printer action Door open		
	Printer to PC ERROR04		
	ERROR04 is means Door open		

### ^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:  • File System Full  • File Name Not Found  • Duplicate Name  • Command Not Recognized  • Extended Memory Not Found		

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

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

### ^XSET,ERRORPRINT,n - Set Error Reprint

Syntax	^XSET,ERRORPRINT,n
	n = 0, after ERROR relieved, print the error label again and keeps printing.
Parameter	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,FEETYPE,n	
	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,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		
Description	Change the area setting of keyboard mode.  * Note: this command is only applied on printer models that support keyboard mode.		
	Examination of Transmitting procedure:		
	PC to Printer  ^XSET,KEYBOARD,3		
Example	PC to Printer  ^XGET,KEYBOARD		
	Printer to PC 3		
	3 :Support German's PS2keyboard		

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

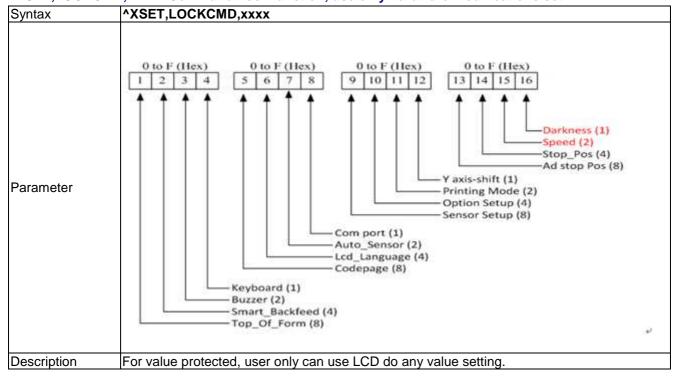
Syntax	^XSET,LABELSEARCH,n
effect & default	permanent , default = 0
parameter is not	Parameter is not processed.

valid		
Parameter	<ul><li>= 0, Unable to continue keywords while resuming.</li><li>= 1, Enable the elimination of keywords while resuming.</li></ul>	
Description	None	
Example	None	

# ^XSET,LCDDATETIMEFROMAT,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:YYY/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,LOCKCMD,xxxx - Command Lock function, use only hardware modifications set



#### ^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,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(Zebra mode).GZPL(Godex 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(Zebra mode) and GEPL(Godex mode). Line feed characters include a	
	character in recall label mode.	

#### ^XSET,PORTACTIVE,I,s,e,u,b- Control The Reception Of Port Active / Inactive

Syntax	^XSET,PORTACTIVE,I,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.ROTATION.n - Rotate whole label

^XSET,ROTATIO	N,n - Rotate whole label
Syntax	^XSET,ROTATION,n
Parameter	n = 0 , rotate 0° printing ; n = 1 , rotate 90° pri nting ;
	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	Print labels as below:  ^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  Case 1 : Continues paper, setup ^Q50,0,0 ^W100. Rotate 90°, it becomes ^Q100,0,0 ^W50.
	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)
	123-60
	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).
	123-45

# ^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

### ^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	Set all zero to be printed as slashed zero.								
Example	^XSET,SLASHZERO,1	B <b>0</b> 123								
	^Q60,0,0	CØ123								
	^L	D0123								
	AA,81,15,1,1,0,0,A0123	E0123								
	AB,81,41,1,1,0,0,B0123	40.20								
	AC,81,71,1,1,0,0,C0123	F0123								
	AD,81,111,1,1,0,0,D0123									
	AE,81,160,1,1,0,0,E0123	G0123								
	AF,81,230,1,1,0,0,F0123	30120								
	AG,81,298,1,1,0,0,G0123	110400								
	AH,81,396,1,1,0,0,H0123	H0123								
	E									

### ^XSET,SMARTBACK,n - Smart backfeed

Syntax	^XSET,SMARTBACK,n									
Parameter	n = 0, OFF									
	n = 1, ON									
Description		ne 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									
	print the rest contents of the next label.	[. <del></del>								
Example	(For Label Dispenser)	Printer will print out first label and part of second								
	^XSET,SMARTBACK,1	label								
	^Q100,3	After taking label away, printer continues printing								
	^E30	second label and part of third label.								
	^O1	3. After taking label away, printer print out third								
	^P3 label.									
	^P3   label.									
	R18,18,750,774,10,10									
	E									
	(For Cutter)									
	^XSET,SMARTBACK,1									
	^Q100,3									
	^E30									
	^D1									
	^P3									
	^L									
	R18,18,750,774,10,10									
	E									

### ^XSET,TEXTBLOCK,n - 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 <sup>nd</sup> 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,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
	Automatically acquire variables. Same as V#SET Send command:  ~MDELF,T001  ^FT001  ^Q50,0,0  ^W100  ^L  V00,10,Prompt  V02,10,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,V1 + V2 = ^V01  AH,188,220,1,1,0,0,V1 + V2 = ^V02  E  ^KT001  001  002	Print result :  V1 = 001 V2 = 002 V1+V2 = 3
	E ~P1	

### ^XSET,WHENTOSENSING,n - Set up autosensing

Syntax	^XSET,WHENTOSINSING,n
	n=0 None function
Doromotor	n=1 do the auto sensing when printer turned on
Parameter	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,DOUBLECUT,x - Double cut

Syntax	^XSETCUT,DOUBLECUT,x												
Parameter	x = 0, disable the doublecut												
	x = offset length (offset length < Label	ength, unit: mm)											
Description	Set the printer to cut twice per label.												
Example	^XSETCUT,DOUBLECUT,45												
·	^Q90,3	Cut											
	^E20												
	^P3	a003											
	^D1	8003											
	^L	Cut											
	C0,001,+1,A1	- 000											
	AC,350,144,1,1,1,0,a^C0	a003											
	AC,350,544,1,1,1,0,a^C0												
	E	Cut ************************************	•••••										
		a002											
		Cut											
		a002											
		Cut ************************************											
		Cut											
		a001	> 90mm										
		Cut											
		a001	→ 45mm										
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 - Set cutter mode

Syntax	^XSETCUT,MODE,n
Parameter	n = 0, Full-cut mode (default)
	n = 1, Partial-cut mode
	* Note: do not set the cutter mode to Partial-cut mode when cutting with cutter module that doesn't support Partial-cut function.
Description	Set the cutter mode to Full-cut mode or Partial-cut mode

### ^XSETRTC,ISOWEEKNUM,n - ISO Week

Syntax	^XSETRTC,ISOWEEKNUM,n																	
Parameter	n = 0, di					(defa	ult)											
	n = 1, er																	
Description	This cor																	
Example		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.																
	It is wee	k 52 d	of yea	ar 199	99, da	ay 6 c	of the	wee	k, an	d day 1	of ye	ar 20	000.					
	1999	1	2	3	4	5	6	7		2000	- 1	2	3	4	5	6	7	
	1999	Mon	Tue	Wed	Thu	Fri	Sat	Sun		2000	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
	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	
	W51	361	362	363	364	365	_	2		W09	59	60	61	62	63	64	65	
									4:	1102	- //	00			05	04	0.5	
	Progr			ine is	O W	еек	Date	tunc	tion	0.44				mark				
	~D1,1,0				11 184 4	1				Set ti	ne dat	te an	a time	9				
	^XSETF ^Q50,0,		SOVV	EENIN	iUivi,	ı												
	^L	U																
	Dy4-mn	-dd								Defin	Define the clock type							
		AC,58,32,1,1,0,0,Today is ^D									Print the date							
	Dwy1																	
		AC,58,132,1,1,0,0,Week of year in one digit: ^D									Print the Week of year in one digit (Week of year in one digit: 52)							
	Dwy2	044		۱۸/ - ۱				JP - 74										
		AC,58,194,1,1,0,0,Week of year in two digits: ^D									Print the Week of year in two digits							
		Program: without the ISO Week Date function									(Week of year in two digits: 52)  Remark							
	~D1,1,0			· iiic	.50	11001	· Dai	o iui	31101		Set the date and time							
	^XSETF			EEKN	IUM.	)					Sot the date and time							
	^Q50,0,			'	,													
	^L ,																	
	Dy4-mn										e the		k type					
	AC,58,3	2,1,1,	٥,0,١	OT IS	SO w	eek (	of ye	ar (^[	))	Print	Print the date							
	Dwy1	00.4		\ <i>\\\</i> '						D	41 14	1	- ¢ .			11 11		
	AC,58,1	32,1,1	ι ,υ,υ,	vveek	c of y	ear ii	n one	aigit	: ^D		the W					ııgıt		
		Dwy2 AC,58,194,1,1,0,0,Week of year in two digits: ^D								k of y					iaite			
	E										Print the Week of year in two digits (Week of year in two digits: 01)							
		<u>E</u>									it or y	cai i	II LVVO	aigita	. U I )			

### ^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	of RTC.
Example	^XSETRTC,LANGUAGE,0	
	^Q50,0,0	English
	^L	Day-of-week 3 letter: Thu
	AC,58,06,1,1,0,0,English	Day-of-week complete: Thursday
	Dw1	Day-of-week number: 4
	AC,58,046,1,1,0,0,Day-of-week 3	Month of year 3 letter: Mar
	letter: ^D	Month of year complete: March
	Dw2	Month of year number: 03
	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	
	^XSETRTC,LANGUAGE,1	
	^Q50,0,0	German
	^L	Day-of-week 3 letter: Sam
	AC,58,06,1,1,0,0,German	Day-of-week complete: Samstag
	Dw1	Day-of-week number: 6 Month of year 3 letter: Nov
	AC,58,046,1,1,0,0,Day-of-week 3 letter: ^D	Month of year complete: November
	Dw2	Month of year number: 11
	AC,58,098,1,1,0,0,Day-of-week	inonar or your number. Th
	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	

# ^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)	h = Ho	h = Hour (00 to 23)						
	d = Date (01 to 31)	i = Minu	ıtes (00	to 59)					
	y = Year (last two digits of year)	s = Sec	conds (0	0 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	D12,22,04,11,11,11 The following form shows the date for December							
	^L	2004.							
	Dwn								
	AD,182,145,1,1,0,0,^D	Sun.	Mon.	Tue.	We.	Thu.	Fri.	Sat.	
	Dw2				1	2	3	4	
	AD,135,186,1,1,0,0,^D	5	6	7	8	9	10	11	
	Dw1	12	13	14	15	16	17	18	
	AD,168,226,1,1,0,0,^D	19	20	21	22	23	24	25	
	Dmn/dd/y2	26	27	28	29	30	31		
	AD,126,110,1,1,0,0,^D E	The p	The print result as below. 12/22/04						
		3							
		Wedne	sday						
		Wed							

### ~En,name,size - Download graphic to memory

Syntax	~En,name,size	
Parameters	n = P or p: PCX file	
	n = B or b: BMP 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 page80).	

### ~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 page79)

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

Syntax	~H,TTF,Xname,size <cr>data</cr>		
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</cr>
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 amo	unt 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		
	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 "HVR0OE1A.SFP" text file to external memory card. Use "A" to do the		
	character code name.		
	~JA	; Define A as HVR0OE1A.SFP	
	COPY HVR0OE1A.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,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 = Dor F)
	d = distination 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
Description	
	~MCPY,F:*.F,D:*.F
Example	
	~MCPY,D:*.G,F:

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

Syntax	~MDEL
Parameter	None
HIDECTINIAN	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

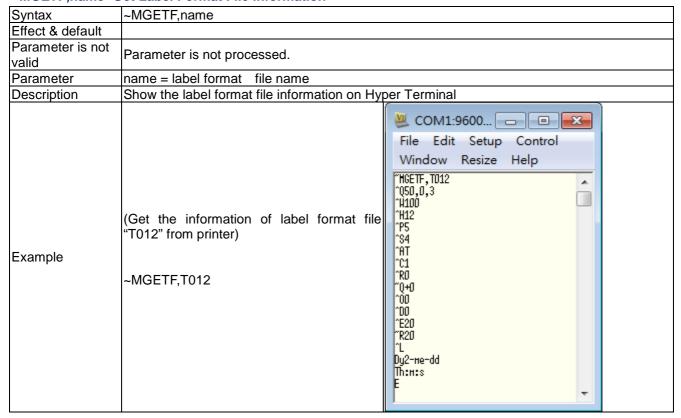
#### ~MDELn,name - Delete specific file from memory

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	P6,N,8,1-Hy per Terminal  Applications of ?FLASH MEMORY Label1 LBL Bus IMG Airplan IMG athena IMG AFNT 1: Chinese Traditional 16X16 紫體中文 E59104 byte (s) free  Free Memory Size

### ~MGETF,name -Get Label Format File information



### ~MGETS,name - Get Serial File information

Syntax	~MGETS,name	
Parameter	name = serial file name	
Description	Show the serial file information on Hyper Te	rminal
Example	(Get the information of serial file "new" from printer)	96,N,8,1- Hyper Terminal ☐ X
	~MGETS,new	~MGETS,new 123456805

### ~MGETT,name<CR> - Read saved file

Syntax	~MGETT,name <cr></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.</cr>
	Then use "~MGETT,name <cr>" command to read saved data</cr>
	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>nnnnnnn<data></data></cr>
Parameter	name = the name of saved
	nnnnnnn = 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 = distination 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	$x = 1 \sim 32767$
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)
·	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 page80). 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	The command will show the status of printer in "aa <cr><lf>" format.</lf></cr>			
	aa = printer status information:			
	00 - Ready			
	01 – Media Empty or Media Jam			
	02 – Media Empty or Media Jam			
	03 – Ribbon Empty			
	04 – Printhead Up ( Open ) 05 – Rewinder Full			
	05 – Rewinder Full 06 – File System Full			
	07 – Filename Not Found			
	08 – Duplicate Name			
	09 – Syntax error			
	10 – Cutter JAM			
	11 – Extended Menory Not Found			
	20 – Pause			
	21 – In Setting Mode			
	22 – In Keyboard Mode			
	50 – Printer is Printing			
	60 – Data in Process			
	*Note: Before using this command, the "^XSET,IMMEDIATE" (Set immediate response			
	on/off) command should be turned on.  Procedure:			
	PC to Printer ^XSET,IMMEDIATE,1			
Example	Printer action Door open			
	PC to Printer ~S,CHECK			
	Printer to PC 04			
	**04: Door open			

## ~S,DUMP - Enter into DUMP Mode

Syntax	~S,DUMP			
Parameter	None			
Description	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.			
	To enter the Dump Mode, please do as follows:			
	<ol> <li>Make sure that the printer is on standby mode (LED light is green).</li> <li>Send "~S,DUMP" command to the printer.</li> <li>Printer will automatically print "DUMP MODE BEGIN". This indicates the printer is already in Dump Mode.</li> <li>Send other printing commands to the printer, and check if the content matches the sent commands.</li> <li>The print width would be changed when use ^W command in the meantime.</li> </ol>			
	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.			

# ~S,OFFSETa,n - Setup position micro adjustment

Syntax	^XSET,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	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.			
	o perform the Auto Sensing, please do as follows:			
	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
II JASCHINIAN	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 nnnnn : remaining number of prints, range from 00000 to 99999</lf></cr>		
	Procedure :	AVOET IMMEDIATE 4	
	PC to Printer	^XSET,IMMEDIATE,1	
Example	Printer action	Door open	
	PC to Printer	~S,STATUS	
	Printer to PC	04,00100	
	**04: Door open , 001	100: 100 labels waiting for printing	

#### ~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.			
	Print resolute as below::			
Example				

#### ~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	n = 1, print lab n = 2, print gra n = 3, print Bit n = 4, print the variable and a n = 5, print As n = 6, print ou n = 7, Print da	int label format names and available space in memory. int graphic names and available space in memory. int Bit-Mapped font names and available space in memory. int the name of the label formats, graphics, fonts, Asia font, database, serial and available space in memory. int Asia font names and available space in memory int out total printing length and response through RS-232 rint database information in memory		
	n = 8, Print se n = 9, Print do	mai file flame wnload TTF information in mem	orv	
Description		able space in the memory (unit:		
Example	Procedure :	,	'	
	PC to Printer	~X1	PC to Printer	~X5
	Printer to PC	FREE MEMORY SPACE 978336 KB T001.LBL 1 FORM(S) IN CF CARD	Printer to PC	FREE MEMORY SPACE 978336 KB 1: Chinese Traditional 24x24 1 ASIAN FONT(S) IN CF CARD
	PC to Printer	~X2	PC to Printer	~X6
	Printer to PC	FREE MEMORY SPACE 978336 KB	Printer to PC	Total printing length 00000565 METER(S)
	Time to FC	godex logo.IMG 1 GRAPHIC(S) IN CF CARD	PC to Printer	~X7 FREE MEMORY SPACE
	PC to Printer	~X3	Printer to PC	978336 KB TEST1.DBF
		FREE MEMORY SPACE 978336 KB	-	1 DBASE(S) IN CF CARD
	Printer to PC	A.FNT 1 FONT(S) IN CF CARD	PC to Printer	~X8 FREE MEMORY SPACE
	PC to Printer	~X4	Printer to PC	978336 KB new.SER
		FREE MEMORY SPACE 978336 KB		1 SERIAL(S) IN CF CARD
		New.SER 1 SERIAL(S) IN CF CARD	PC to Printer	~X9 FREE MEMORY
		TEST1.DBF 1 DBASE(S) IN CF CARD	Printer to PC	SPACE: 1597 KB A: CP850_Latin1 TTF_TAB 001 TTF TABLE(S) IN MEMORY
	Printer to PC	1: Chinese Traditional 24x24 1 ASIAN FONT(S) IN CF CARD		A: Arial (True Type) TTF 001 TTF(S) IN MEMORY
		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		

## ~Z - Reset printer

Syntax	~Z
Parameter	None
	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	^FAUTOFR ^Q20,0,0 ^P1 ^L V00,6,Prompt AG,260,32,1,1,0,0,^V00 E ~Z  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:  APPLE 3  It will print 3 labels with APPLE on it.  NOTE1: Uses 0x13 to logout AUTOFR status. ~MDELF NOTE2: If command included ^PAx, it would print label of print quantity.  NOTE3: If push feed key while printer requests input var means input blank.	quantities according to "x". No need to input		

## 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 t	able below.				
	Font	Points Fo	ont style			
	A	6 C0	G Triumvirate, Code page 850			
	В	8 C0	G Triumvirate, Code page 850			
	С	10 C0	G Triumvirate, Code page 850			
	D	12 C0	G Triumvirate, Code page 850			
	E	14 C0	G Triumvirate, Code page 850			
	F	, , ,				
	G		G Triumvirate, Code page 850			
	Н	30 C0	G Triumvirate, Code page 850			
	I	16x26 dots f	or US ASCII 8 bit			
	K	OCR-B font				
	L	OCR-A font				
	Zn, n = 1 ~ 9	Asia font from	m 1 to 4			
	x = Hori of top-left	position of te	xt (unit: dot, 1mm = 8 dots in 203dpi printer; 1mm=12 dots in			
	300dpi printer)		• • • • • • • • • • • • • • • • • • • •			
	y = Vert of top-left 300dpi printer)	position of te	xt (unit: dot, 1mm = 8 dots in 203dpi printer; 1mm=12 dots in			
		y magnified ι	up to 8 times as large			
	y_mul = Vertically	magnified up	to 8 times as large			
		the character	(unit: dot, 1mm = 8 dots in 203dpi printer; 1mm=12 dots in			
	300dpi printer)					
			f ASCII text from 0 to 3, the Asian text rotation form 0 to 7			
			0° 2→ 180° 3→ 270°			
	4→ 0° 5→ 90° 6→ 180° 7→ 270°					
		(0~3→rotated for all characters; 4~7→rotated individually for each character)				
		In addition, if the rotation parameter is followed with "I", the text will be printed in inverse font.				
		To use UNICODE please setup as below:				
	$E \rightarrow UTF8$ L $\rightarrow UTF16$ LO H $\rightarrow UTF16$ HI ( UTF16 characters should be end up with 4					
	0x00)					
	Data = data string, it includes Constant, Date information (^D), Time information (^T), Serial					
<u> </u>	variable (^Cx) and					
Description	from left to right or		ing. The ASCII text oriented form left to right, the Asian text			
Sample						
	Rotat	ion Para 0	Rotation Para 0			
	Rota	ara 3	Jara 3			
	Rotation Para	Rotation Para	retation Para 3			
	ara .	Rotati	Notes 7			
	S ene	SQ noitstoR	S sied notificion			
			קסיים דמיים דער סק			
	סר מידע רט	ZO → ω → · · O ⊏				
	ר מיר מיט 9	R	8 8			
		∃ 0 <sup></sup> + 20 + 0 70 R 0 t a	t t			
	9	Ro t a t i	t a t			
	n G I S 6	R o t	E t t			
	م 5 5 8	Ro t t a t i o	t t i o n			
	n G I S 6	R o t a t i o n	t a a t i o n Pa r			
		Root taatti	t a a t i o n Pa r			
	70 4 5 1 5 1 8 8	Root taatti	t a a t i o n Pa r			
	70 4 5 1 5 1 8 8	Root taatti	ta ti on Pear a			
	70 4 5 1 5 1 8 8	Root taatti	ta ti on Pear a			
	70 4 5 1 5 1 8 8	Root taatti	ta ti on Pear a			
	9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Root taatti	t a t i o n p a r a a r a a			

## 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	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:				
	$0 \rightarrow 0^{\circ}$ $1 \rightarrow 90^{\circ}$ $2 \rightarrow 180^{\circ}$ $3 \rightarrow 270^{\circ}$				
	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:				
	$E \rightarrow UTF8$ L $\rightarrow UTF16$ LO H $\rightarrow UTF16$ 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).				
Description	Print built-in True Type Font (TTF).				
Description Further	In width/height AspectRatio mode (m = 0):				
Information					
mormation	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:				
	TTFheightsize = WindowsFontsize*dpi/72				
	For example, if user want to print Windows font 72pt on 203dpi printer, then the				
	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.				
	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.				
Sample	AT,48,92,90,90,0,0,0,01234ABCDE				
	<del>→</del>				
	AAAAAAAAAA				
	Λ1231ARCDE				
	UIZJANDUDL				
	AT 50 224 00 00 0 0PTH 0 0 01224APCDE				
	AT,50,324,90,90,0,0BTU,0,0,01234ABCDE  →				
	N19911DrnE				
	<i>01234ABCDE</i>				
	VILUTINODE				

#### [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	t = TTF type, accepted values: from A to Z			
	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:			
	$0 \rightarrow 0^{\circ}$ $1 \rightarrow 90^{\circ}$ $2 \rightarrow 180^{\circ}$ $3 \rightarrow 270^{\circ}$			
	The font style setting is optional setting. It includes 3 types, can be set with none, one, two			
	or three together:			
	$B \rightarrow Bold T \rightarrow Italic U \rightarrow Underline$			
	To use UNICODE please setup as below:			
	$E \rightarrow UTF8$ L $\rightarrow UTF16$ LO H $\rightarrow UTF16$ HI ( UTF16 characters should be end up with 4			
	0x00)			
	d = DType → 0: ASCII A~Z: Unicode table			
	$m = m = 0 \rightarrow width/height AspectRatio mode$			
	$m = 1 \rightarrow$ Average width mode (refer to Further Information)			
	data = Data to be printed			
Description	Print downloaded True Type Font.			
Further	In width/height AspectRatio mode (m = 0):			
Information	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:			
	TTFheightsize = WindowsFontsize*dpi/72			
	For example, if user want to print Windows font 72pt on 203dpi printer, then the			
	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.			
	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.			

#### Bt,x,y,narrow,wide,height,rotation,readable,data - Barcode

Syntax	Bt,x,y,narr	Bt,x,y,narrow,wide,height,rotation,readable,data					
Parameters	None						
	type	Barcode	type	Barcode			
	Ā	Code 39 STD	O	Codabar			
	A2	Code 39 STD w check	Р	Code 93			
	A3	Code 39 full ASCII	Q	Code 128 (auto)			
	A4	Code 39 full ASCII w check	Q2	Code 128 (subset A/B/C)			
	A5	Code 39 STD w check & *	QI	ISBT(Remark 1))			
	A6	Code 39 STD w *	R	UCC 128			
	A7	Logmars(Remark 1)	S	Post NET			
	A8	Code 32	S1	Planet 11 & 13 digit(Remark 1)			
	В	EAN 8	S2	Japanese Postnet(Remark 1)			
	С	EAN 8 - Add ON 2	Т	ITF 14 (DUN14)			
	D	EAN 8 - Add ON 5	U	EAN 128			
	E	EAN 13	V	RPS 128			
	F	EAN 13 – Add ON 2	Χ	HIBC			
	G	EAN 13 – Add ON 5	Υ	MSI 1 MOD 10			
	H	UPC A	Y2	MSI 2 MOD 10			
	<u> </u>	UPC A - Add ON 2	Y3	MSI 1 MOD 11 & 10			
	J	UPC A - Add ON 5	Y4	MSI no digit check			
	K	UPC E	Z	I 2 of 5 with Shipping Bearer Bars			
	L L	UPC E - Add ON 2	1	UCC/EAN-128 K-MART			
Parameter	М	UPC E - Add ON 5	2	UCC/EAN-128 RANDOM			
arameter	N	I 2 of 5	3	Telepen			
	N2	I 2 of 5 with check digit	4	FIM			
	N3	I 2 of 5 with not readable check digit(Remark 1)	7	Plessey(Remark 1)			
	N4	Standard 2 of 5 (Remark 1)	001	German Post Code			
	N5	Industrial 2 of 5 (Remark 1)	001	German i ost code			
	industrial 2 of 0 (Normany 1)						
	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 $(0 \sim 3)$						
	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						
	2 – above barcode, left 5 – below right						
	data = barcode data, it includes Constant, Date information (^D), Time information (^T),						
	Serial variable (^Cx) and Variable data (^Vxx).						
	Please ref	er to each barcodes sample, v	vhen n	rinting barcodes.			
Description		) Works with firmware version					
Example	Please ref	er to Appendix1 to see all 1D :	and 2F	barcodes sample and commands.			
.Admpio	1 10030 161	or to Appointing to doc all 1D i	2110 ZL	saroodoo barripio aria borriiriarias.			

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

Syntax	Bt,x,y,narrow,wide,height,rotation,readable,data					
Parameter	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.				
	x = Hori. c	of top-left position of barcode (unit:	dot, 1 m	nm = 8 dots or 12 dots)		
	y = Vert. c	of top-left position of barcode (unit:	dot, 1 m	nm = 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"					
	Expanded Stacked". When the data length exceeds the segment setting, the barco					
	more line automatically to contain all data. The maximum number of barcode lines is 1 Height = not available yet, please always enter "0".					
	rotation =	rotation = rotation of barcode $(0 \sim 3)$				
	0) 0° 1) 90° 2) 180° 3) 270°					
	readable = set to show human readable text					
	0 – human readable off; 1 – below barcode, left					
	Data = ba	Data = barcode data, it includes Constant, Date information (^D), Time information (^T),				
	Serial vari	able (^Cx) and Variable data (^Vxx)				

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

	The Godit with Schaline			
Syntax	C#x,y,±value,z			
Parameter	neter 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 the	nis command.		
Example	~L,SERIAL,new,123456795	Download the new file to printer first		
	Turn printer off	Print Result:		
	Turn printer on.	123456800		
	Print again.	123456801		
		123456802		
	^Q60,0,0	123456803		
	^P5	123456804		
	^L			
	C#0,new,+1,0			
	AG,50,137,1,1,0,0,^C0			
	E			
	Key in ~MGETS, new in	96,N,8,1- Hyper TermianI		
	HyperTerminal			
		~MGETS.new		
		123456805		
		-		

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

Syntax	Cx,ys,±value,prompt				
Parameter	x = 0 to 9(up to10group), maximum combination up to 10 groups.				
	y = select the decimal				
		y $\rightarrow$ 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	s, 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 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.				
Description	Set the serial number				
Example	^Q50,0,0	decimal with leading zeros: 002			
	^W100				
	^H10	decimal with leading spaces: 3			
	^P3 ^I	hexadecimal: F0			
	Dy2-me-dd	0~9 A~Z: ZZ0			
	Th:m:s				
	C0,000,+1,Prompt				
	C1, 1,+1,Prompt	decimal with leading zeros: 001			
	C2,AEE,+1,Prompt1	decimal with leading spaces: 2			
	C3,CZYY,+1,Prompt2	hexadecimal: EF			
	AC,80,10,1,1,0,0,decimal with leading zeros: ^C0 AC,80, 80,1,1,0,0,decimal with leading spaces: ^C1	0~9 A~Z: ZYZ			
	AC,80,160,1,1,0,0,decimal with leading spaces. AC1  AC,80,160,1,1,0,0,hexadecimal: AC2				
	AC,80,240,1,1,0,0,nexadecimal. ^C2 AC,80,240,1,1,0,0, 0~9 A~Z: ^C3	decimal with leading zeros: 000			
	E	decimal with leading spaces: 1			
		hexadecimal: EE			
		0~9 A~Z: ZYY			

## Daa|bb|cc - Define date layout

	Daalbhice		1		
Syntax Parameter	Daa bb cc aa = Year				
Parameter	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 decim	nal 32 to 63.			
	Djj1: Julian calendar format(YYDD)	02 10 00.			
	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	05-APR-15	Date layout		
	AD,36,40,1,1,0,0,^D	5105	Julian date format		
	Djj1	15	Week of year format		
	AD,36,80,1,1,0,0,^D	Fri	Day of week as 3 letter		
	Dwy1		abbreviation		
	AD,36,120,1,1,0,0,^D	Apr	Month of the year as 3		
	Dw1		letter abbreviation		
	AD,36,160,1,1,0,0,^D				
	Dm1				
	AD,36,200,1,1,0,0,^D				
	D 44 444				
	Dy4/mn/dd				
	AD,36,280,1,1,0,0,^D	0005/04/45	Dataland		
	Djj2	2005/04/15	Date layout		
	AD,36,320,1,1,0,0,^D	05105	Julian date format		
	Dwy2	15	Week of year format		
	AD,36,360,1,1,0,0,^D	Friday	Day-of-week as complete		
	Dw2	April	Month of the year as a		
	AD,36,400,1,1,0,0,^D Dm2		complete name		
	AD,36,440,1,1,0,0,^D	5	Day of week as number		
	Dwn	3	value		
	AD,36,530,1,1,0,0,^D		value		
	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				
	<u> </u>	•			

# **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	Move to third record	
	FILEDB,MOVE,FIRST	Move to first record	
	FILEDB,MOVE,NEXT	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 ar	nd print it.	
Example	Download database "customer":	Find Mary's data and print it.	
	^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		

## **Gwxxx - Graphic command**

Syntax	Gwxxx
Parameter	w = byte number of image data
	xxx: image data
Description	This command is a sub-command of ~G It is sent by binary data. W is the digits number byte of image data. For example, if the image file is 50 bytes, the command is G2xxx. (2: ASCII is 50 decimal)
Example	byte of image data. For example, if the image file is 50 bytes, the command is G2xxx. (2: ASCII is 50 decimal)  ^Q35,0,10 ^W70 ^H10 ^S4 ^R0 -G G< G< G< @ G<@@@@@@@@@@@@@@@@@@@@@@@
	@ G<@ G<@ E
	~G = start Graphical receive mode

## 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_w	vidth,line_width
Parameter	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	
December	line_width = line width	
Example  Example	Draw a table in the label.  ^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	

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

Syntax	La,x,y,x1,y1	
Parameter	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)	(x,y)
	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)	(x1,y1)
Description	Define a line to render in the label *Note: The diagonal line draw is not availab	le.
Example	^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	Result

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

Syntax	Mx,y,sno,nos,mode,ccode,zip,class,rotation,message				
Parameter	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 $(0 \sim 3)$ 0) 0° 1) 90° 2) 180° 3) 270°				
	message = 1 ~ 84 characters.				
Description	Print a 2 dimensional Maxicode				

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

Parameters	Data x = Hori. of left-bottom pos. of barcode ( unit: dots)
r c c e li r	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) 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	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 eleme	ent (bar or space) in the barcode.			
	h = Height (y dimension) of each barcode row in				
	r = number of barcode rows, from 3 to 90. If you				
	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 $(0 \sim 3)$				
	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.				
Description	To adjust the PDF 417 data length by this comr				
Example	^Q50,0,0	(Data read from CCD:			
	^L	0123456789[ CR][ LF]Line2[ CR][ LF]Line3[			
	PC141,104,3,5,3,3,3,50	CR][ LF]9876543210)			
	<b>&amp;</b> *0123456789				
	Line2				
	9876543210&*				
	<u> </u> E				

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

797 7-7-1-0	PMx,y,w,h,mo								
Syntax	Data	ue,ierigt	ii,i otatio	711					
		-hottom r	nos of ha	arcode (	unit: do	te)			
	x = Hori. of left-bottom pos. of barcode (unit: dots) y = Vert. of left-bottom pos. of barcode (unit: dots)								
							cnaca) in th	e barcode. 0~5	0 unit
	,	mension,	or the n	anowes	t elemei	וו (שמו טו	space) iii iii	e barcoue. 0~5	U unit
	dots		\ . <b>(</b> l		•		.1 0 50	9	
	h = Height (y d		) or each	barcod	e row in	tne symt	oi. 0~50 uni	it : dots	
	$mode = 0 \sim 3$								
					includin	g carriage	e returns ↓ a	and line feed. 0-	~400
	rotation = rotat	ion of bar	code (	0 ~ 3)					
	0) 0°	1) 90	)° 2)	180°	3) 270	0			
	Data = data to	be encoc	led (the l	enath of	the dat	a must be	e equal to the	e set value of "I	len"; υ
	to 1024 charac			3					, -
		,							
			Table 9	• Micro	PDF41	7 Mode			
		Mode	Number	Number	% of	Max	Max	ı	
		(M)	of Data Columns	of Data Rows	Cws for EC	Alpha Characters	Digits	ı	
		0	1	11	64	6	8	I	
		1	i	14	50	12	17	ı	
		2	1	17	41	18	26	- 1	
		3	1	20	40	22	32	- 1	
		4	1	24	33	30	44	- 1	
		5	1	28	29	38	55	- 1	
		6	2	8	50	14	20	- 1	
arameter		7 8	2 2	11	41 32	36	35 52	- 1	
		9	2	17	29	46	67	- 1	
		10	2	20	28	56	82	- 1	
		11	2	23	28	64	93	- 1	
		12	2	26	29	72	105	- 1	
		13	3	6	67	10	14	- 1	
		14	3	8	58	18	26	- 1	
		15 16	3	10	53 50	26 34	38 49	- 1	
		17	3	15	47	46	67	- 1	
		18	3	20	43	66	96	- 1	
		19	3	26	41	90	132	- 1	
		20	3	32	40	114	167	ı	
		21	3	38	39	138	202	ı	
		22	3	44	38	162	237	ı	
		23	4	8	50	22 34	32 49	ı	
		25	4	10	40	46	67	I	
		26	4	12	38	58	85	ı	
		27	4	15	35	76	111	ı	
		28	4	20	33	106	155	ı	
		29	4	26	31	142	208	I	
		30	4	32	30	178	261	ı	
		31	4	38 44	29 28	214 250	313 366	ı	
		33	4	44	50	14	20	I	
		1 33	1 4		30	7			
	1								
Description	Print a 2D Micr		7 code						
xample	PM100,100,6,8 1234567890	5,3,10,3							

## 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	1 2 3 4 5 6 7 8 77 78 79 80	Data send out 1 2 3 477 78 79 80  width = 4; height = 20 (data length: 4x20 = 80)  (refer to page80)

#### Rx,y,x1,y1,lrw,ubw - Rectangle drawing

Syntax	Rx,y,x1,y1,lrw,ubw	
Parameter	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)	$\begin{array}{c c} & & & \text{lrm} \\ & & & & \\ & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ $
Description	Draw a rectangle in the label	

# 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).
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	~MDELF,aaa	Weight is 16 kg				
	^Faaa	Date is 11/26/2004				
	^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					
	Alfana					
	^Kaaa					
	16 kg					
	11/26/2004					
	E					
	~P1					

# V#ADDCHKSUM,x - Add modulus 10 check code

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

#### V#ADDCHKSUM43,x - Add modulus 43 check code

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

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

## **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	~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	Weight is 16 kg Date is 11/20/2004	

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

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

#### 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	Send command:MDELF,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,V05 V06,20,V06  V#OP+,V02,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,3,N,V03 V#SET,FLOATFORMAT,3,N,V06  V#SET,UNPROMPT,V02 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 = ^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	Print result:  TEST Variable calculation  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

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

Syntax	V#SET,PROMPTONCE,Vx
Parameters	Vx = number of Variable
II Jescription	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]	
	a = the symbol will be displayed at Thousand point	
Parameters	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 po	pint, Decimal point and End of number
	Send command :	
	^Q50,0,0	Print result :
	~MDELF,TEST	
	^FTEST	V00 = 1411.12
	\rangle L	V01 = 1333.23
	V00,10,V00	V02 = 2,744,35,
	V01,10,V01	
	V02,10,V02	
	V#SET,UNPROMPT,V02	
	V#SET,FLOATFORMAT,2,0,V02	
Example	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	

# **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 Use doesn't need to input the value of V00	
	V#SET,UNPROMPT,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	Print result:	
	from a whole date variable.		
		Date:2005/01/31	
	~MDELF,test	Month:01	
	^Ftest	Day:31	
	^Q60,0,0	Year:2005	
	<u>^</u> 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		
	Althor		
	^Ktest		
	2005/01/31		
	E		
	~P1		

# 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:	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 para	meters are all the same with text command	
Example	VA,5,10,1,1,0,data	The name of font "A"	

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

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

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

Syntax	Wx,y,mode,type,ec,mask,mul,len,roatae <cr></cr>
Parameters	x = Hori. of left-bottom pos. of barcode (unit: dots) y = Vert. of left-bottom pos. of barcode (unit: dots) mode = input mode (1 ~ 5)  1 → Numerical data mode 2 → Alpha numerical data mode 3 → 8-bit data mode*
	<ul> <li>4 → Kanji data mode</li> <li>5 → Mixing mode (not available in Micro QR Code)</li> <li>type = barcode type (1 ~ 2)</li> <li>1 → Model1 (original)</li> <li>2 → Model2 (enhanced)</li> </ul>
	3 → Micro QR code ec = error correction level (L \ M \ Q \ H) L → Low M → Medium Q → Medium high H → High (not available in Micro QR Code) mask = masking factor (0 ~ 7 or 8 for auto). When printing with Micro QR code, it must be set
	to "0".  mul = multiple (1 ~ 40)  len = number of encoded data bytes, including carriage returns   and line feed.  roatae =rotation of barcode (0 ~ 3)  0) 0° 1) 90° 2) 180° 3) 270°  data = bar code data.
Description	*Note: if input mode is set to 8-bit data mode, the first four digits of bar code data must indicate the data length in bytes. For example, if first four digits are 0015, that means the data length of following bar code content must be 15 bytes.
Description Example	Arrange QR-code by setting.  Q50,0,0  ^L  W10,10,2,1,L,8,10,36,0  0123456789ABCDEFGHIJKLMNOPQRSTUV WXYZ  E  Data mode: 2  Model type: 1  Error level: L  Masking factor: 8  Multiple:10  Data length: 36

## XRBx,y,enlarge,rotation,length<CR>data - Arrange DataMatrix Code

Syntax	XRBx,y,enlarge,rotation,length <cr></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°
	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></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.  Example: A graphic in printer named "Graphic1", command Y20, 40; Graphic1 \( \dtriangle \) will put this graphic into label at position (20, 40).

## 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</cr>
	x = Hori. of left-bottom pos. of barcode (unit: dots).
	y = Vert. of left-bottom pos. of barcode (unit: dots).
	a = rotation of barcode $(0 \sim 3)$
	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
	c = extended channel interpretation code indicator
	Y = if data contains ECICs
	N = if data does not contains ECICs
Parameter	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"
	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
	n = data length : maximum = 2000
	data = bar code data
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

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

#### ^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	Procedure:  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
II JASCHINTIAN	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

	Scrap Entri response
Syntax	^NR[,p[,ei[,sw]]]
	p: 0 = adjust SMTP response setting; 1 = adjust SNMP response setting.
	ei: 0 – 11
	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
Parameter	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
	sw: 0 = disable; 1 = enable "ei" response function
	If doesn't input parameter or input inappropriate parameter, it will only response current status.
Description	Refer to above Parameter explanation
Description	Neier to above Farameter explanation
	Procedure:
	PC to Printer ^NR
	Printer to PC SMTP: 1,1,1,1,1,1,1,1,1,0
Example	SNMP: 1,1,1,1,1,1,1,1,1
	PC to Printer ^NR,0
	Printer to PC SMTP: 1,1,1,1,1,1,1,1,0
	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,l] -Set and request for NET connection parameters

Syntax	^NSa,b,c,d,e,f,g,h,i
	a: D(DHCP) or P(PERMANENT)
	b: IP adress
	c: subnet mask adress
	d: gateway
Parameter	e: reserved
	f: reserved
	g: reserved
	h: reserved
	i: port number
Description	Without parameter, it will response current network setting
Description	With parameter = setup network
	Procedure :
Example	PC to Printer ANS
	Printer to PC D,192.168.0.1,255.255.0,192.168.0.1,,,,,9100
	<u> </u>

# ^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

# **Appendix**

#### I. Barcode Samples

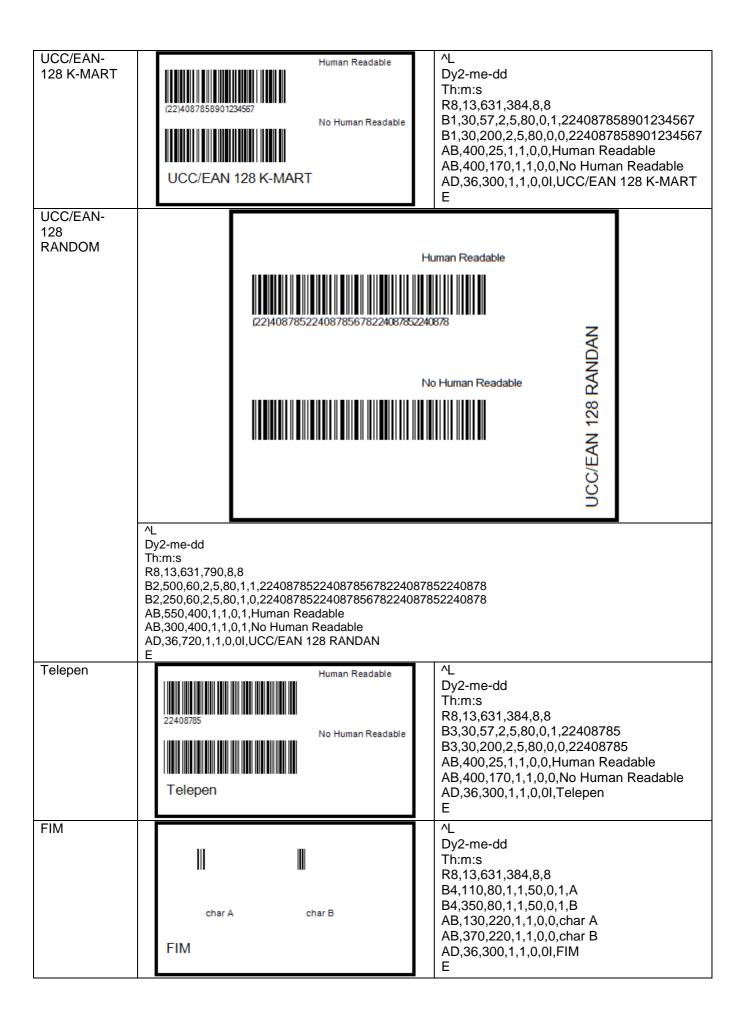
I. Barcode Sam Barcode Type	Barcode Sample	Sample Commands
Code 39	Human Readable  22\$ /+%40  No Human Readable  Code39	Dy2-me-dd Th:m:s R8,13,631,384,8,8 BA,30,57,2,6,80,0,1,22\$ /+%40 BA,30,200,2,5,80,0,0,22\$ /+%40 AB,400,25,1,1,0,0,Human Readable AB,400,170,1,1,0,0,No Human Readable AD,36,300,1,1,0,0I,Code39 E
Code 39 with check digit	Human Readable  22-\$/+%406  No Human Readable  Code39 with check	^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	Human Readable    2240   8785     No Human Readable    EAN8	^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	Human Readable  No Human Readable  EAN8 Add ON 2	AL 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	Human Readable    2240   8785   12345   No Human Readable    EAN8 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

EANL 40			l Al
EAN 13	2 240878 500518 EAN13	Human Readable No Human Readable	AL 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	2 240878 500518 EAN13	Human Readable No Human Readable	AL 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	2   240878   500518   12345   1235   1235   1235   1235   1235	Human Readable No Human Readable	AL Dy2-me-dd Th:m:s R8,13,631,384,8,8 BG,30,57,2,5,80,0,1,224087850051812345 BG,30,200,2,5,80,0,0,22408785005181234 5 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	2 24087 85517 3 UPC A	Human Readable No Human Readable	AD,36,300,1,1,0,01,EAN13 Add ON 5 E  AL  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,36,300,1,1,0,01,UPC A  E
UPC A - Add ON 2			E  AL  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

UPC E		AL
	Human Readable  No Human Readable  UPC E	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
UPC E - Add ON 2	Human Readable  No Human Readable  UPC E Add ON 2	^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
UPC E - Add ON 5	Human Readable    12345	^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
I 2 of 5	Human Readable  22408785  No Human Readable  I 2 of 5	^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
Codabar	Human Readable  A22408785D  No Human Readable  Codabar	^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
Code 93	Human Readable  22408785Godex  No Human Readable  Code93	^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

0 . 1 . 400		Al
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	AL 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	(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	AL 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	(00)100844237449200941  No Human Readable  EAN128	AL 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		\ <u>\</u>
	Human Readable  2240878522408785123452  No Human Readable  RPS128	Dy2-me-dd Th:m:s R8,13,631,384,8,8 BV,30,57,2,5,80,0,1,2240878522408785123 45 BV,30,200,2,5,80,0,0,224087852240878512 345 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	Human Readable  22408785  No Human Readable  China Postal Code	^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	Human Readable  22\$/+%40  No Human Readable  HIBC	^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	Human Readable  22408785  No Human Readable  Plessey MSI2 1 mod10	^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	Human Readable  22408785123457  No Human Readable  I 2 of 5 with Shipping Bearer Bars	^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



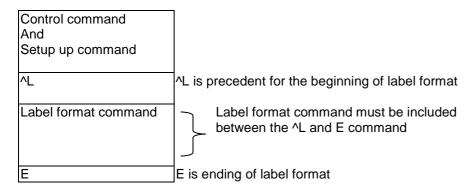
GS1 Databar	Human Readable	<b>I</b>
		Dy2-me-dd
		Th:m:s
	(12)3456/8(90)000	R8,13,631,384,8,8
	No Human Readable	B55,30,57,2,5,80,0,1,1234567890000 B55,30,200,2,5,80,0,0,1234567890000
		AB,400,25,1,1,0,0,Human Readable
		AB,400,170,1,1,0,0,No Human Readable
	GS1 Databar	AD,36,300,1,1,0,0I,GS1 Databar
		E
Maxicode	***************************************	^L Dy2-me-dd
	***************************************	Th:m:s
	**************************************	R8,13,631,384,8,8
		M200,50,1,1,2,840,068107317,666,0,12345
	200527-150-662	6 AD,36,300,1,1,0,0I,MaxiCode
	**********************************	E
	MaxiCode	
PDF417		
		Dy2-me-dd Th:m:s
		R8,13,631,384,8,8
		PC50,100,3,10,3,3,3,19
		AD,36,300,1,1,0,0I,PDF 417
	PDF 417	E
	PDF 417	
QR Code		
		Dy2-me-dd Th:m:s
		R8,13,631,384,8,8
		W100,60,1,1,M,8,7,10,0
		0123456789
	mode 1 mode 2	W400,60,1,2,M,8,7,10,0 0123456789
		AB,130,230,1,1,0,0,mode 1
	QR Code	AB,430,230,1,1,0,0,mode 2
		AD,36,300,1,1,0,0I,QR Code
Micro QR	<del></del>	_   E
Code		Dy2-me-dd
	-   奥鷸 -	Th:m:s
	3766	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
	Micro QR Code	E

DataMatrix (Square)		966000PE 966000PE 9660000 9660000 9660000	
		DataMatrix Code Square	
	^L Dy2-me-dd Th:m:s R8,13,631,384,8,8 XRB250,100,7,0,50 012345678901234567 AD,36,300,1,1,0,0I,Date	789012345678901234567890123456789 htaMatrix Code Square	
DataMatrix (Rectangular)		DataMatrix Code Rectangle	
		789012345678901234567890123456789 htaMatrix Code Rectangle	

#### **II. Command Examples**

How to construct a label using EZ-Series command:

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



<sup>\*\*</sup> 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,42,39,2,5,100,0,1,12345	Select EAN8 label, data content is 1234567
67	
Е	Label content of stop symbol

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

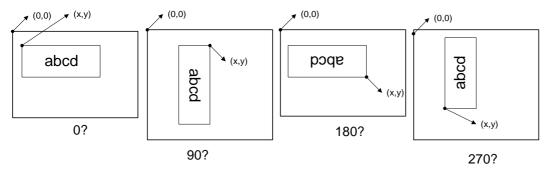
C:\>COPY EX1.TXT PRN↓

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	PRINTER	^Q50,0,0	0.2 R0
^W50	AUG/27/00	^W50	ROTATION 20
^S6	08:39:36	^S6	NO
^H10		^H10	NOITATION 180 NOILY TATIO
^R10		^L	- OOL MOITATOG -
~D8,27,00,8,39,36		AC,100,30,1,1,1,0,ROTATION 0	06 RO
^L		AC,38,0,1,1,1,1,ROTATION 90	-
AC,10,10,1,1,1,0,PRINTER		AC,260,150,1,1,1,2,ROTATION	
AC,10,50,1,1,1,0,^D		180	
AC,10,100,1,1,1,0,^T		AC,290,200,1,1,1,3,ROTATION	
E		270	
		E	
Adjusting the character	Result	Asia Font	Result
spacing			
^Q30,0,0	PRINTER	^L	中
^W50		AZ,100,12,1,1,0,4,中文	中文
^S6		AZ,223,65,1,1,0,5,中文	文
^H10		AZ,60,100,1,1,0,6,中文	
^L	PRINTER	AZ,90,144,1,1,0,7,中文	中 中
AC,10,10,1,1,10,0,PRINTER		E	
AC,10,100,1,1,1,0,PRINTER		<b>-</b>	中女
E			

The data output is a default setting and user can change it with ~D command (refer to page45). 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		^H10 ^S6 ^W25 ^Q30,0,2	1 234567 890128
AL BB,20,100,3,3,100,0,1,1234567 E		^L BE,100,20,2,4,80,1,1,123456789 012 E	890128

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

5. Rectangle printing

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

# 6. PDF417

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

#### 7. Maxicode

71 Maxioodo	
Example	Result
^Q50,0,0	**************************************
^W70	42790344446
^S6	
^H10	~~~(@)^\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
^L	······································
M30,20,1,1,2,840,068107317,8,0,123456	
E	*** W.A.A.W.: **.

### 8. DataMatrix Code

Example	Result
^Q60,3	
^W80	PMCC
^H19	
^P1	
^S2	
^L	
XRB314,134,8,0,10	
0123456789	
XRB312,438,8,0R,10	<b>20</b> 46
0123456789	2962 0.22
E	

9. Label Dispenser setting

Example	Result
^Q50,2	; Label height= 50mm, gap= 2mm
^W50	; Label width= 50mm
^S6	; Speed =6 inch/second
^O1	; Label Dispenser enable
^E8	; Set stop position to 8 mm
^P1	; Printing one label
^H10	; Darkness = 10
^L	; Label format begin sign
AD,20,20,1,1,3,0, Label Dispenser Function	
E	; 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	a001 a003 a005 a007 a009 a008 a010

### 11. Serial number

TEXT			
Example 1	Result	Example 2	Result
^Q10,0,0	0018	~P10	0038
^W30	0016		0036
^S6	0014		0034
^H10	0012	If you want to continue printing 10	0032
^P10	0010	more serial numbers that is starting	0030
^L	8000	from 0018, enter the command	0028
C0,0000,+2,A1	0006	"~P10". With this command you do	0026
AB,10,10,1,1,2,0,^C0	0004	not have to re-enter all the	0024
E	0002	command in example.	0022
	0000		0020
Example 3	Result	Example 4	Result
^Q10,0,0	0006	^Q10,0,0	abc0014def
^W30	0006	^W30	abc0012def
^\$6	0004	^S6	abc0010def
^H10	0004	^H10	abc0008def
^P4	0002	^P8	abc0006def
^C2	0002	<u>^</u> L	abc0004def
^L	0000	C0,0000,+2,A1	abc0002def
C0,0000,+2,A1	0000	AB,10,10,1,1,2,0,abc^C0def	abc0000def
AB,10,10,1,1,2,0,^C0		E	
E		•	
Dave de with equiel u		code	
AH10	Barcode with serial number Result		
^A10  ^S6		1 111119 911114	
^Q20,0,2		1    111119    911114	
^W50			
^P10		1 111110 021113	
AL		(	
C0,000,-1,A3			
BE,20,100,3,3,100,0,1,1111111^C011	1		
E	•		

## 12. Graphic driver format

12. Graphic driver format	
Example	Description
^Q20,2	
^W50	
^R20	; Left margin = 20 dots
~G	_
G(AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	For this example, ASCII "("character is 40
G(AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	decimal (=40 bytes). Total 14 lines, so the
G(AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	graphics height is 1.75mm (14 dots)
G(AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	
G(AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	
G(AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	
G(AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Result
G(AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	
E	

13. Pattern command setting

13. Pattern command setting		
Example	Result	
^Q,20,0,0		
^W40		
^S6		
^D5		
^L		
Q40,10,2,8	Length: 2x8=16	
GGGGGGGGGGGG		
E		
Desc	ription	
0100011101000111		
0100011101000111 g	H B A S S S S S S S S S S S S S S S S S S	
0100011101000111		
0100011101000111	<2mm →	
0100011101000111 =		
0100011101000111		
0100011101000111		
0100011101000111		
←1 BYTE→←1 BYTE→		
WIDTH O DVTFO		
G: 01000111 (binary)		
(		

14. Rotate label format for printing

14. Notate laber format for printing		
Example	Description	Result
^Q40,2	; Label size is 40 mm(h) x 50	
^W50	mm(w); 2 mm gap	
^S6		029 <del>9</del>    #871
^H10		
~R50	; Rotate the label format 180 ofor	3TATOA
^L	printing	317100
AC,153,42,1,1,1,2,ROTATE		
BB,156,112,2,5,50,2,1,1234567		
E		
^Q50,0,0	; Disable the rotate function	ROTATE
~R200		
^L		1234   5670
AC,20,10,1,1,1,0,ROTATE		
BB,20,45,2,5,50,0,1,1234567		
E		

### 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.TXTand TEST2.TXT, see the following contents).

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

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	; Download label to memory card and the label name is "test".
^Q50,0,15	
^W70	
^H10	
^S6	
^E12	
^L	
C0,0000,+1,serial no.	; Setting serial number is C0
V00,10,name	; Setting three variables V00, V01, V02
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	

17. Recall label format from memory

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

Framela	Docult	
Example	Result	
~T		
~V		
	EZXXXX: VX.XXX Serial port:96,N,8,1  IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	

19. Use variable settings

	Example	Result
1. User input unit	~MDELF,test1	Price: 100
price and amount.	^Ftest1	Amount: 3
Printer calculates	^Q60,0,0	Total Price: 300
total price.	^P1	
	\rangle 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	
	Ē	
	~P1	
2. Calculation	~MDELF,test2	
sample	^Ftest2	V00=10
	^Q60,0,0	V01=20
	^L	
	V00,10,Input V00	V1+V0=30
	V01,10,Input V01	V1-V0=10
	V02,10,Input V02	V1*V0=200
	V03,20,Input V03	V1/V0=2
	V04,20,Input	V1 MOD V0 = 0
	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,38,37,1,1,0,0,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	
	Althouse	
	^Ktest2	
	10	
	20	
	E	
	~P1	

# 20. dBase III data setting

Example:

customer.dbf has following data

edeterrier:der ride renewing data				
NAME	ADDRESS	PHONE		
Tom	Address of Tom	11111111		
Mary	Address of Mary	2222222		
John	Address of John	33333333		
Joe	Address of Joe	4444444		
Bob	Address of Bob	5555555		
Gilbert	Address of Gilbert	6666666		

Example	Description	Result
^Q60,0,0	Print out Mary's phone number	Mary's phone: 22222222
^P1	Thire out Mary & priorie Harrison	ividity o priorio. 2222222
\rangle 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		
^Q60,0,0	Print out John Address	Address of John
^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	Drint out lost november	Last Name is Gilbert
^Q60,0,0 ^P1	Print out last person name	Last Name is Gilbert
^F		
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		
^Q60,0,0	Print second person name	Second Name is Mary
^P1	·	Í
^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		

^Q60,0,0	Print first, second and third person	Tom Phone is 11111111
^P3	phone number	Mary Phone is 22222222
^L		John Phone is 33333333
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		

### **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:	To encode FNC1 into a Code 128 Subset A, send the			
BQ2,8,8,2,5,40,0,0, ATEST&G	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	S	Doc. date	Prepared		
Α	First Edition			2010/11/23	Chard Hu
В	Add "*" to CODE 39			2011/08/15	Chard Hu
Revision	Sections changed from previous release			Doc. date	Prepared
	ADD	CANCEL	MODIFICATION		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	2012/10/19	
	~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		
С	~X6		^XSET,CODEPAGE,n		
C	~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,TOPOFFORM,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		Betty Tsou
	^XSET,AUTOTPHTEST,x				
	^XSET,FEEDTYPE,n				
	^XSET,PAGEDELAY,n				
	^XSET,REALLENGHTPRINT,n				
	^XSET,RECALLCRLF,n			2013/08/08	
D	^XSET,SENSING,n				
D	^XSET,SPEEDDOWN,n				
	^XSET,TOPOFFORM,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			
		^XSET,PAGEDELAY,n		2013/08/19	Betty Tsou
		^XSET,SPEEDDOWN,n			
		Firmware reversion difference between V1.xxx and G3.xxx			