





DPP-350



CONTACT INFORMATION

www.stimare.net

General enquiries:	info@stimare.net
Support:	support@stimare.net

Web:

United States: 4730 Tejon Street
Denver CO

80211 USA

Phone: +1-720-257-7070

Unit 4, Bramber Court, United Kingdom: Bramber Road,

London,W14 9PW, United Kingdom

Phone: +44 208 099 8071

46A Patrick Street

Ireland:

Dun Laoghaire

Co. Dublin

Co. Dublin A96 YH33 Ireland

Phone: +353 1 685 4600





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LEGAL NOTICE

"Made for iPod," "Made for iPhone," and Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone or iPad may affect wireless performance.

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COMPATABILITY

Made for

iPhone 5

iPhone 4S

iPhone 4

iPod touch (5th generation)

iPod touch (4th generation)

iPod touch (3rd generation)

iPad (4th generation)

iPad mini

iPad (3rd generation)

iPad 2

Android Support

Android iOS 2.1 and higher





TECHNICAL DATA

General Specifications

Printing Specs		
Printing Method	Line thermal dot printing	
Printing Speed	60mms/s (480 dots/sec) at 8.5 V	
Print Width	72mm / 576 dots per line	
Resolution	203dpi (8x8 dots/mm)	
Dot pitch	Horizontal - 0.125 mm (8 dots/mm) Vertical - 0.125 mm (8 dots/mm)	
Resident fonts	Font A: 12 x 24 dots (48 char. per line); Font B: 9 x 16 dots (64 char. per line);	
Loadable fonts	Font C: 12 x 24 dots (48 char. per line); Font D: 9 x 16 dots (64 char. per line);	
Logo Registration	1 Black and White size: 576 x 248 dots	
Input Buffer	36,864 bytes	
Resident Barcodes	1D -EAN13, EAN8, UPC-A, UPC-E, Codebar, Code39, Code128 2D - PDF417, QR Code	
Communications	RS232 C - max. 115200 bps, USB v 1.1, compatible with 2.0 Bluetooth® (Optional) - for iOS and Android platforms	
Emulation	ESC/POS Continuous paper Mode	
Thermal Paper	78 mm +0/-1mm X 50mm diameter 57 mm x 50 mm diameter (option)	
Electrical		
Power Supply	Rechargeable Li-ion battery (7,4 V / 2000 mAh) Battery capacity: Per Charge (~30,000 lines)	
Power Supply	AC adapter - DC 9 V, 1 A AC 100 - 240 V, 1,3 A, 50/60 Hz	
Magnetic Stripe Reader	Magnetic Stripe Reader - 3 track unencrypted MSR head, ISO7811 (optional)	
Environment		
Temperature	Operating temp. +0°C to +40°C @ 35 to 85 % RH Storage temp20°C to +60°C @ 10 to 90% RH	
Reliability	Printing Head: 50km (printing rate 25% max)	
Mechanical		
Dimensions	118 (W) X 90 (D) x 51 (H)	
Weight	340 g (without paper) 430 g (with paper)	

^{*} Specifications subject to change without notice.





BOX CONTENTS

Your DPP-350 comes with the following items listed below:

DPP-350 Thermal Printer



Belt Clip

AC Charger

1 Roll of Thermal Paper

RS-232 Interface cable







Software: Drivers & SDK:

Because of the continually evolving Driver & SDK to support new mobile devices, Drivers & SDK are distributed online and is available for download at our website indicated below. For the latest on using the DPP-350 Drivers & SDK, please refer to the SDK's documentation.

For the latest DPP-350 SDK's please visit our developer portal:

http://ipcprint.com/developer/downloads





GETTING STARTED

The DPP-350 allows you to print information from your smartphone over Bluetooth®. Before using the DPP-350 thermal printer the battery should be properly charged. The following Quick Start guide will help to get your DPP-350 ready for use.

Quick Start Guide

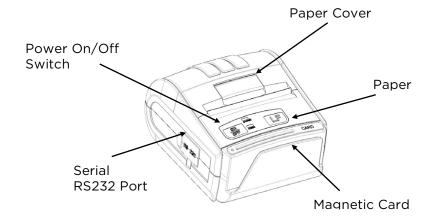
Step	What to do	Purpose	Where to find more Information
1	Fully charge your DPP-350 recommended In this manual	The Lithium Ion battery pack should be fully charged before use to ensure long battery life.	Charging Battery, Page 8
2	Load DPP-350 print media (Thermal Paper)	DPP-350 requires Thermal paper for printing	Loading Paper, Page 10
3	Install DPP-350 Software	Printing requires software to be installed onto your mobile device	Printing software is not provided by Infinite Peripherals. Please contact your account manager for recommendations on Third-Party solutions. Developers should refer to the section in this manual on "Developing Solutions".
4	Setup Bluetooth® pairing	Set up Bluetooth® pairing to allow DPP-350 to communicate with the Bluetooth®	Bluetooth® Setup, Page 20 and 21



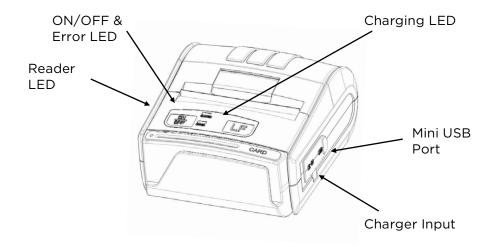


ABOUT YOUR DPP-350

DPP-350 View 1



DPP-350 View 2





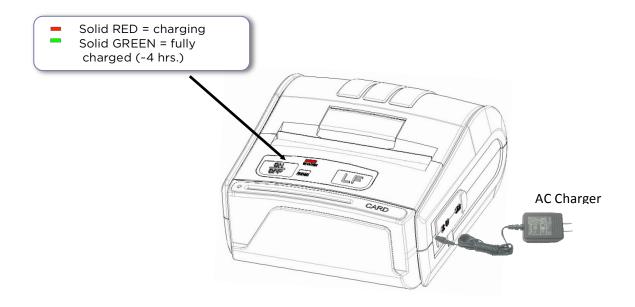


CHARGING THE DPP-350

The DPP-350 uses a Lithium Ion rechargeable battery pack. Before first use, the DPP-350 battery pack should be charged for at least 4 hours.

To prevent electrical damage to the DPP-350 and/or battery pack, please use approved AC Charger only.

LED status while charging battery are shown in the illustration below.







STATUS AND OPERATING MODES

The DPP-350 uses LEDs to indicate various conditions of operations. This may be charging, active or online low conditions. The following explains this conditions and LED indication.

Printer Status			
Charging LED	Solid GREEN=Battery at full charge		
		Solid RED=Battery charging	
	atus LED	Power ON	Power ON
Status LED		Flashing once per second=Low battery	
		Low / No Paper	
		Flashing once per second = Thermal Head Overheating	





LOADING PAPER

The DPP-350 uses a drop-and-load design making paper loading easy and trouble free. To load paper, simply lift up the paper cover latch and drop in the new roll as shown in the steps below.

1. Lift the paper cover latch to unlock the paper cover as shown in the figure on the right.



- 2. Lift the paper cover.
- 3. Drop the new roll as shown in the figure on the right

Be sure to pull at least 12mm or more of media above the top closing paper cover.



4. Close the paper cover until it snaps lock.







DIAGNOSTIC SELF-TEST

The DPP-350 has a built-in test pattern that shows the printer's current configuration as well as the various resident printer fonts. The self-test can also be used as a troubleshooting tool to determine printing problems or battery level. The steps below show how the self-test is printed activated.

- Step 1. Make sure the printer is OFF (on-line LED is OFF) before performing Step #2.
- Step 2. Press and hold the line feed button (LF). While pressing the (LF) button, press the (POWER) button momentarily and release when one of the conditions below:

LF Button operation Modes		
Holding LF button while power on for ~ 0.5 sec and releasing it after 1-beep.	SHORT SELF TEST print.	
Holding LF button while power on for ~2.5 sec and releasing it after 2-beep.	Hex DUMP mode. All input data are printed as hexadecimal.	
Holding LF button while power on for ~ 4.5 sec and releasing it after 3-beep.	LONG SELF TEST print.	
Holding LF button while power on for more than 8.5 sec and releasing it after the 5-beep (long 4-tone) beep.	Program mode- loading the printer firmware.	
Holding ON button while power on for ~4 sec and releasing it after 1-beep.	Temporary forcing 9600 bps serial speed.	
Holding ON button while power on for ~6 sec.	Hardware Setup Mode.	

Note: Care must be taken when entering operating modes to prevent the clearing of factory preset configuration information.





DIAGNOSTIC SELF-TEST

Press and Hold the LF button, while Power On the printer. Release-after-4.5 sec and after the 3-beep. The printer will print a Long Self Test, which contains information about:

- Resident font sizes:
- Characters per line:
- Text formatting;
- Resident character set:
- Resident barcode symbols;
- Printer's configuration

A long **SELF TEST** is shown in the image on the right

MODEL DPP-350 Version 1.12

Two internal fonts: 9x16 & 12x24 Two loadable fonts: 9x16 & 12x24

Up to 48 characters per line using this font Up to 64 characters per line using this font

Normal **Bold Inverse** *Italic* Underlined

Line rotated by 180 degrees

Different sizes characters

!"#\$%&^()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNO PQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{¦}~¦ € ,f,...†‡~%\$([[•+••''"•--~""\$)@ Y i¢£x¥¦\$"@@«1-® °±23 µ¶· 1º»¼½¼¿àÁÂÃÄÄÁŘÇÈÉÉËÌÍÎÏĐÑÒÓÔÕÖרÙÚÛÜŸÞß àáaããåæcèéeëlíîïðñòóôőö÷øùúûüúþü

Supported bar codes:

EAN13, EAN8, UPC-A, UPC-E, Code39, Code93 2 of 5 interleaved, Codabar, Code128, PDF417



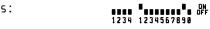
Serial number: AAA**000001**BB07

Interface: **RS232** Baud rate: 115200 bps Flow control: Hardware USB mode: Disabled Disabled Black mark mode: Protocol mode: Disabled

Reader module: DPP350RMS V1.04 Intensity: 100 % Auto off: 10 min

Temperature: 31°C

Date & time: OCT/19/07 11:48 Battery: 7.5 V III Switches:







DIP SWITCH SETTINGS

The DPP-350 is designed to use different methods of communications. Care must be taken to ensure that the DIP Switches are not changed from its default factory configuration unless required.

Dip Switch Settings

The printer has two absolutely different operation modes. They are determined by the state of switch Sw2:

- Continuous Paper mode
- Black Mark mode

These two modes detect paper present conditions differently. The black mark searching mode is designed for proper alignment of the starting print position on indexed media with printed information.

Switch	OFF	ON
SW1	Wide paper (78 mm)	Thinner paper (58 mm)
SW2	Continuous Paper mode	Label/Black Mark mode
SW3	Hardware protocol	Xon/Xoff protocol
SW4	Normal operation mode	Protocol mode

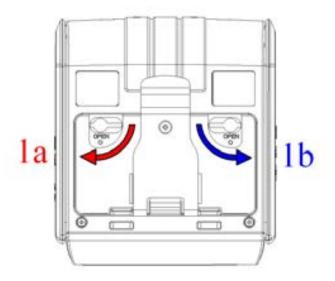




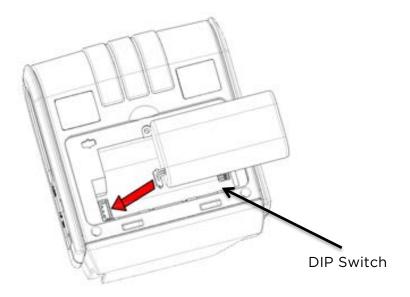
DIP SWITCH LOCATION

The DIP switch location is shown in the illustration below:

#1 - Remove battery cover



#2 - Remove battery







MEMORY SWITCH SETTING

The DPP-350 uses nonvolatile memory for storing some of the printer default configuration. The following table shows the available options.

Memory Switch Options		
Memory Switch (See command reference GS command)	100000010	
Baud Rate	115200 bps	
Auto Off Time	10 minutes	
Print Darkness	100%	
Character Table	Western (1252)	
USB Device Class	Printer	





HARDWARE SETUP

Memory Switch Settings

- Step 1. Switch OFF the printer.
- Step 2. Press and hold ON/OFF button. The STATUSLED flashes GREEN and after about 6 sec holding the ON/OFF button STATUS LED flashes RED and then turns RED.
- Step 3. Release the ON/OFF button and wait for the printer to print out the current memory settings and instruction..

Note: Care must be taken when changing factory preset configuration information.

The pressing LF (YES) - confirms changes.

The pressing ON/OFF (No) - cancels changes.

MEMORY SWITCHES: 1000000010
BAUD RATE: 115200 bps
AUTO OFF TIME: 10 min
PRINT DENSITY: 100%

CHARACTER TABLE: WESTERN (1252)

HARDWARE SETUP <ON/OFF> - NO, <LF> - YES

CHANGE MEMORY SWITCHES?

SAVE SETTINGS ?

 MEMORY SWITCHES:
 1000000011

 BAUD RATE:
 115200 bps

 AUTO OFF TIME:
 5 min

 PRINT DENSITY:
 100%

CHARACTER TABLE: WESTERN (1252)

HARDWARE SETTINGS STORED!





MEMORY SWITCH CONFIGURATION

DPP-350 has 10 memory switches, which have the following action:

```
SW1 ENABLE SOUND ?
SW2 EXECUTE <CR> AS <LF> ?
SW3 DISABLE < LF > COMMAND ?
SW4 N/A
SW5 N/A
SW6 N/A
SW7 N/A
SW8 DISABLE DISCOVERABELITY ?
SW9 ENABLE USB INTERFACE ?
SW10 USB IN DEVICE MODE ?
CHANGE BAUD RATE ?
CHANGE AUTO OFF TIME ?
CHANGE PRINT DENSITY ?
CHANGE CHARACTER TABLE ?
CHANGE PAIRING INFO ?
SAVE SETTINGS ?
```

- SW1: Enable/Disable buzzer.
- SW2: Disable CR / CR is executed as LF
- SW3: Enable/Disable LF
- SW4: LF immediately after CR/ Disable LF immediately after CR
- SW5: Font A (12x24)/ Font B (9x16)
- SW6: Enable/Disable "Cover open" sensor.
- SW7: Enable/Disable IrDA module
- SW8: Prevents others from discovering printer when set to ENABLE. Must be set after pairing is completed.
- SW9: Disable/Enable USB. Allow the use of USB port for communications.
- SW10: (OFF) set USB as the host mode. Host/Device





COMMUNICATIONS CONFIGURATION

The following default configurations are used for the different communication methods.

- Communication with smartphone
- Via Bluetooth®

Memory Switch Options	
Memory Switch (1 thru 10) *******010	
Physical Switch Options	
DIP Switch (1, 2, 3, 4)	*, OFF, OFF, ON

- Communication with PC (using windows printer driver)
- Via Bluetooth®/ USB/ Serial:

Memory Switch Options	
Memory Switch (1 thru 10) *******011	
Physical Switch Options	
DIP Switch (1, 2, 3, 4)	*, OFF, OFF, OFF

- Service mode (changing printer settings, loading firmware) communication with PC
- Via Serial Interface

Memory Switch Options	
Memory Switch (1 thru 10) *******011	
Physical Switch Options	
DIP Switch (1, 2, 3, 4)	*, OFF, *, ON

- Depending on user requirements can be 0 or 1

Notes: When not using Driver/SDK developer tools, set DIP Switch 4 to OFF.



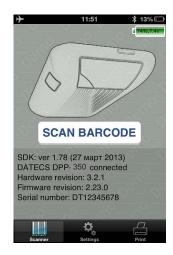


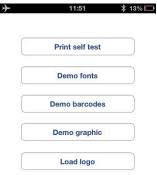
BLUETOOTH® SETUP IOS

Enable Bluetooth® on iOS device. Select Bluetooth® device, after this Pair to DPP-350. Start app "Library Demo" and select "Print".









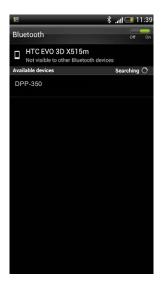


You can select "Print self test" to test Bluetooth® connection.



BLUETOOTH® SETUP ANDROID

Enable Bluetooth® and press search device. On the list with available device will show "DDP-350", pair device. Default PIN is "0000". When is paired open application "Printer Sample". Select a device to connect "DPP-350". For testing Bluetooth® connection press "Print self test".





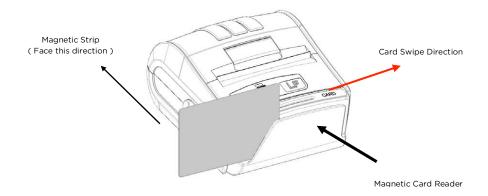






MAGNETIC SWIPE READER

The DPP-350 has a built-in magnetic card reader. The card reader incorporates a (3)-track magnetic read head requiring a single swipe to read field data from all three tracks.



The reader's magnetic head faces towards the front of the printer. When placing the card into the reader, the magnetic strip must be facing as show in the figure above. Keep the bottom edge of the card flat on the inner base of the reader to ensure that the magnetic strip passes over the read head evenly.

When swiping the card through the reader, use an even consistent motion from start to finish. The speed of swiping can vary however the speed must be consistent from start to finish of the swipe in order to accurately read card data.

User Notes:

To use the magnetic card reader feature, special software must be used to read and process the card information. If you do not have card reading software, please consult your reseller to find out if this software is available or contact Infinite Peripherals for recommendations on compatible third party software solutions.



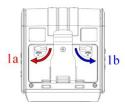


REPLACING BATTERY

To replace the battery in the DPP-350 thermal printer follow the steps below.

Steps:

1. Turn over the DPP-350 and place on a flat surface. Rotate the (2) locking levers as shown in the figure on the right.



2. Lift the battery cover as showed in the figure on the right.



3. Lift the battery as shown in the figure on the right.



4. Detach the battery connector as shown in the figure on the right. Reverse Steps 1-4 to install the new battery pack.







DEVELOPING SOLUTIONS

Integrating the DPP-350 into your mobile solution requires the use of the DPP-350 Smartphone SDK. The SDK incorporates API specific to developing printing applications and using the integrated Magnetic Card Reader capability of the DPP-350.

The table below shows the SDKs currently available smartphone devices.

os	Language	SDK-IDE
iOS	Objective-C	Xcode (Objective-C)
Android	Java	Eclipse

For details on using the DPP-350 SDK, please refer to the SDK's documentation.

For the latest DPP-350 SDK's, visit our developer web site at:



http://ipcprint.com/developer/downloads





TROUBLESHOOTING

If you are having problems capturing signatures refer to the table below for possible causes.

Item	Problem	Possible Cause
1		Thermal media is specially coated on outside of roll. Remove paper roll and reload property.
	Paper feeds after issuing a print job but no printed	See section" Loading Paper" for details on loading paper.
	text visible on paper.	Paper cover not installed properly. See Section "Loading Paper" for details on replacing paper cover.
2	STATUS LED blinks RED continuously.	Printer out of paper or Paper not properly loaded. See section "Loading Paper" for details on loading paper.
	Text and/or graphics are	Battery Voltage low. See section on charging battery pack.
3	printed very light.	Thermal media not imaging correctly. Verify that you are using the recommended thermal media.
4	Strange characters are printed when printing.	Battery voltage low. See section on charging battery pack.
5	STATUS LED flashes green	Battery voltage low.
6	STATUS LED flashes green/red and printer stops printing.	The printer thermal head is overheating. When the printer head temperature returns to normal the STTUS LED light green and the printer continues to print.
7	Printer stops responding to print and paper feed commands.	Remove battery for 5 seconds and reconnect battery.
8	Printing is light or missing only on half of the print	Paper cover not properly installed. See section on loading paper.
	width.	Mechanism jarred loose. Contact technical support





RESIDENT COMMAND SET

No.	Command	Description
1	BEL	Sounds the buzzer
2	НТ	Horizontal Tab command
3	LF	Printing a line and paper Feeding command
4	FF	Printing and paper feeding to the black mark position
5	CR	The operation of the command depends on the state of the configuration flags 2,3 and 4
6	DC2=	Image LSB/MSB select
7	DC3(DC3 (Ruled line) commands sequence start
8	DC3+	Sets the ruled line ON
9	DC3-	Sets the ruled line Off
10	DC3A	Selects ruled line A
11	DC3B	Selects ruled line B
12	DC3C	Clears selected ruled line buffer
13	DC3D	Sets a single dot in selected ruled line buffer
14	DC3 F	Ruled line pattern set
15	DC3 L	Ruled line set
16	DC3 M	Selects ruled line combine mode
17	DC3 P	Ruled line 1 dot line print
18	DC3 p	Ruled line n dots line print
19	DC3 v	Ruled line image write
20	CAN	Canceling print data in page mode
21	ESC FF	Printing data in page mode
22	ESC RS	Sounds the buzzer
23	ESC SP	Setting character spacing
24	ESC #	Setting EURO symbol position
25	ESC \$	Specifying the absolute horizontal position of printing
26	ESC %	Selecting/Canceling the printing of downloaded user character set





27	ESC &	Selecting user character set
28	ESC!	Specifying printing mode of text data
29	ESC *	Printing graphical data
30	ESC +	Switch's OFF the printer
31	ESC -	Selecting/Canceling underlining
32	ESC.	Printing self test/diagnostic information
33	ESC 2	Specifying 1/6-inch line feed rate
34	ESC 3	Specifying line feed rate n/203 inches
35	ESC <	Changes print direction to opposite
36	ESC =	Data input control
37	ESC >	Selecting print direction
38	ESC?	Reading magnetic stripe card
39	ESC @	Initializing the printer
40	ESC CAL	Black mark mode sensor calibration
41	ESC D	Setting horizontal tab position
42	ESC E	Specifying/Canceling highlighting
43	ESC F	Filling or inverting the page area in page mode
44	ESC G	Specifying/Canceling highlighting
45	ESC I	Specifying/Canceling Italic print
46	ESC J	Printing and Paper feed n/203 inches
47	ESC L	Selecting page mode
48	ESC N	Reading programmed serial number
49	ESC R	Selecting country
50	ESC S	Specifying speed (bps) of the serial port
51	ESC T	Printing short self test
52	ESC U	Selecting/Canceling underlined printing
53	ESC V	Selecting/Canceling printing 90°- right turned characters
54	ESC W	Defining the print area in page mode
55	ESC X	Specifying max printing speed
56	ESC Y	Selecting intensity level
57	ESC Z	Returning diagnostic information





58	ESC \	Specifying relative horizontal position
59	ESC]	Loading the default settings stored in Flash memory
60	ESC ^	Saving current settings in Flash memory
61	ESC _	Loading factory settings
62	ESC `	Reading the Battery Voltage and Thermal head temperature
63	ESC a	Aligning the characters
64	ESC b	Increasing text line height
65	ESC c5	Enabling/Disabling the functioning of the button LF
66	ESC d	Printing and feeding paper by n- lines
67	ESC i	Feeding paper backwards
68	ESC o	Temporarily feeding paper forward
69	ESC pair=	Enabling/Disabling PAIRING info saving in Bluetooth® mode
70	ESC pwd=	Programming a new Bluetooth® password (PIN)
71	ESC r	Full command for sounding buzzer
72	ESC s	Reading printer settings
73	ESC u	Selecting code table
74	ESC v	Transmitting the printer status
75	ESC x	Setting the time interval for automatically switching Off the printer
76	ESC y	Setting USB response strings
77	ESCy BTH:	Enabling/Canceling printing of 180° turned characters
78	GS FF	Printing in page mode and returning to standard mode
79	GS \$	Specifying the absolute vertical position in page mode
80	GS)	Setting printer flags (memory switches)
81	GS *	Defining a Downloaded Bit Image (logo)
82	GS/	Printing a Downloaded Bit Image
83	GS:	Starting/ending macro definitions
84	GS B	Enabling/Disabling inverse printing (white on black)
85	GS C	Read the Real Time Clock
86	GS H	Selecting printing position of HRI Code
87	GS L	Setting the left margin
88	GS Q	Printing 2-D barcodes





89	GS R	Filling or inverting a rectangle in page mode
90	GS S	Selecting 2-D barcode cell size
91	GS T	Selecting the print direction in page mode
92	GS U	Selecting standard mode
93	GS W	Setting the print area width
94	GS X	Drawing a rectangular box with selected thickness in page mode
95	GS Z	Printing the non blank page area only in page mode
96	GS \	Specifying the relative vertical position in page mode
97	GS ^	Executing macro
98	GS c	Setting the Real Time Clock
99	GS f	Setting the font of HRI characters of the barcode
100	GS h	Setting the height of the barcode
101	GS k	Printing a barcode
102	GS p	Settings for 2D barcode PDF417
103	GS q	Selecting the height of the module of 2D barcode PDF417
104	GS w	Selecting the horizontal size (Scale factor) of the barcode
105	GS x	Direct text print in page mode

Asian Languages Support

106	FS!	Specifying printing mode of two-byte text data
107	FS &	Selecting two-byte text mode (JIS or GB2312)
108	FS -	Selecting/Canceling underline mode for two-byte text mode
109	FS.	Canceling two-byte text mode
110	FS C	Selecting Shift-JIS mode (Japanese version only)
111	FS S	Specifying character spacing for two-byte text mode
112	FS W	Selecting double size characters for two-byte text mode





FEDERAL COMMUNICATIONS COMMISSION

Federal Communications Commission (FCC) Statement

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Operation is subject to the following two conditions:

- 1) This device may not cause interference and
- 2) This device must accept any interference, including interference that may cause undesired operation of the device.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



