



I80 Thermal Printer

www.printek.com

I

PDF



This device fulfills the European standards requirements by complying with the Directive relating to electromagnetic compatibility and relating to low-voltage electrical equipment. Furthermore it fulfills the requirements for RoHS and R&TTE if applicable.

Conformity with the above mentioned Directives is indicated by the CE symbol attached to the device. Note: Conformity may be affected by:

- using interface cables not complying with the specifications
- non-observance of important instructions in the operator's manual
- installing components not approved for this device by the manufacturer
- unauthorized manipulation



Dieses Gerät erfüllt die Anforderungen der Europäischen Normen durch Einhaltung der Richtlinien bezüglich der Elektromagnetischen Verträglichkeit sowie bezüglich Elektrischer Betriebsmittel mit Niederspannung. Des Weiteren werden die Anforderungen bezüglich RoHS und falls anwendbar R&TTE erfüllt.

Die Konformität zu den oben angeführten Richtlinien ist durch das am Gerät angebrachte CE-Zeichen gekennzeichnet.

- Hinweis: Die Konformität kann beeinflusst werden durch:
- Benutzung von nicht spezifizierten Schnittstellen
- Nichtbeachtung wichtiger Hinweise der Bedienungsanleitung
- Ersetzen von Bauteilen, die nicht vom Hersteller für dieses Gerät freigegeben wurden
- Eingriffe durch Unbefugte

FCC Part 15 Class B

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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 the 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.

This equipment complies with Canadian and FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

When installing in mobile equipment (equipment used at position in which spaces between human body and antenna exceed 20cm): This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets FCC radio frequency RF energy that it deemed to comply without maximum permissive exposure evaluation

MPE. *It is desirable that it should be installed and operated keeping the radiator at least 20cm or more from person's body.

*This last sentence is basically unnecessary, but it can be also possible to describe.

When installing in portable equipment (equipment for which the spaces between human body and antenna are used within 20cm): This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency RF exposure guidelines. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption ratio (SAR)

Part 15.21 Caution: Changes or modifications not expressly approved by Printek could void the user's authority to operate the equipment.

Canadian Department of Communications Radio Interference Statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: 1) this device may not cause interference; 2) this device must accept any interference, including interference that may cause undesired operation of the device. Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication. Maximum power output plus maximum antenna gain of the EUT is: 4.5W/m², Limit is 10Wm².

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada.

Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante. La puissance de sortie maximale plus gain d'antenne maximal du EUT est : 4.5W/m² Limite est 10W/m²

TABLE OF CONTENTS

V

TABL	E OF CONTENTS	V
Introd	uction	1
Printe	r Features	2
Quick	Start Instructions	3
Α.	Paper Load (Media 8.5")	3
В.	Power On	4
C.	Control Panel	5
D.	Performing a Printer Self-Test	6
E.	Restore the Printer Firmware	6
Config	guration	7
Α.	Connectivity Parameters	9
В.	Image Parameters	11
C.	Device Config	13
D.	Fonts	15
E.	Image Config	16
F.	Graphics	21
G.	Update Printer Firmware, Upload Files to Printer Memory	22
H.	Reset Printer Configuration to Factory Defaults (Safe Mode)	23
Printir	ng Modes	24
Α.	ASCII Based Print Jobs	24
В.	Graphic Based Print Jobs	24
-	ating the Printer into your Business Applications Step by Step – Creating a Link from	
Α.	Windows Desktop Computers	25
Prin	t Drivers	25
I.	USB	25
II	. Bluetooth – General	30
II	I. Bluetooth – Determining the Bluetooth COM port	30

B. Android Tablets & Smart phones	33
I. Bluetooth	33
C. Apple™ Tablets & Smartphones	33
I. Bluetooth	33
Media	33
A. Standard Media	33
B. Black Mark Media Position	33
Maintenance and Troubleshooting	35
A. Cleaning	35
B. Troubleshooting	36
I. General Error Conditions	36
II. Fault Description and Resolution	37
C. Obtaining Service	38
APPENDIX	39
A. Appendix A – I80 Printer Specifications	39
Glossary of Terms	40
Index	42

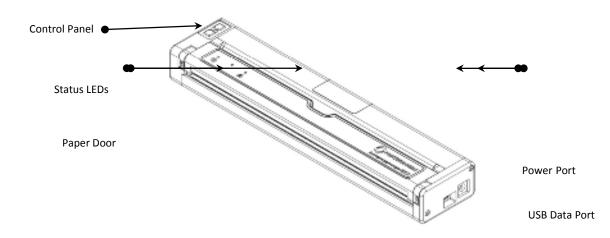
Introduction

Thank you for purchasing the I80 Series mobile thermal printer also referred to in this manual as the "I80". The I80 series prints on special thermal media supplied in roll form up to 8 inches wide. All models are equipped with a USB port which supports cabled communications. All models support an optional internal Bluetooth or Wi-Fi interface. Complete specifications may be found in <u>Appendix A – I80 Printer Specifications</u>.

The remainder of this manual focuses on preparing the printer for initial use and performing tasks that will be encountered during daily use.

<u>Maintenance and Troubleshooting</u> describes how to maintain the printer for optimal performance and has information on how to diagnose any problems that may occur.

Printer Features



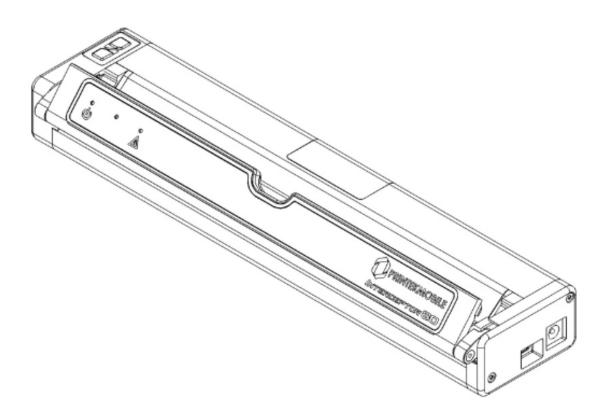
180 features:

- Easy-to-read control face
- Printer can use single sheet paper, roll paper or black mark paper.
- Extensive fonts, character sets, bar codes and graphic capabilities.
- Printing speed up to 11 pages per minute.
- Printer configuration is quick and easy with a web based interface.
- Compatible with Windows, Android and iOS.
- Emulations that allow the printer to be a drop-in replacement for nearly any mobile printer.

For detailed specifications reference Appendix A – 180 Printer Specifications.

www.printek.com

A. Paper Load (Media 8.5")



Roll Paper –

- Open the paper door by inserting your finger into the cutout in the paper door and gently pulling the door toward the front of the printer.
- Insert the leading edge of the paper roll into the printer with the coated side down.
- Close the paper door and push the paper feed button to insure the paper is under the roller and able to advance.

Black Mark Paper –

- Open the paper door by inserting your finger into the cutout in the paper door and gently pulling the door toward the front of the printer.
- Insert the leading edge of the paper roll into the printer with the black mark facing up.

• Close the paper door and push the paper feed button to insure the paper is under the roller and able to advance. If the printer is properly configured for Black Mark paper the paper should advance until the black mark is detected by the printer.

Single Sheet Paper -

- Insert the single sheet of paper with the coated side down into the top of the printer.
- The printer will grab the single sheet and place it into the printer ready to print.
- If the printer has received a print job, the printer will begin to print as soon as the paper is detected.

B. Power On

Depress the Power button on the control panel. The green LED and the red LED will both be lit while the printer is going through its startup sequence (about 20 seconds). The red LED will go off, leaving the green LED on to indicate the printer is ready to print.

C. Control Panel

Control Panel		
(b)	Power Up	Press & Release
U	Power Down	Press & Hold
Power Button	Toggle IP over USB on/off	Press twice
(A)		
	Advance paper	Press once
Paper Feed Button	Print Setup Report	Press twice

Power & Status (Green/Red)	(Yellow)	Alert (Red)	Indication
On	Off	On	Booting up
On	Off	Off	Ready
On	Off	Flashing	Paper Error / Lid Open / Paper End
Flashing	Off	Off	Job is arriving
Flashing	Off	Off	Job is printing
Flashing	Off	Flashing	IP over USB active
Flashing	Flashing	Flashing	Restart the printer manually
Off	Off	Flashing	Restore the printer firmware
Off	Off	On	Print head too hot

D. Performing a Printer Self-Test



Before you connect the printer to the computer, make sure that the printer is in proper working order.

You can do this by printing a configuration status page.

1. Make sure the media is properly loaded, the top cover of the printer is closed and the printer is power on. Then, press the Feed button twice continuously.

2. The printer will print out a parameter setting page.

E. Restore the Printer Firmware

- 1. When the Power & Status LED is off, and Alert LED flashing, you need to restore the printer firmware. Turn on the printer and wait for around 30 seconds, the printer enters into configuration mode, and you could download the firmware via web.
- 2. If any problem occurs during firmware upgrade, and the printer fails to work, you could restore the printer firmware as such:
 - 1 Use the AC adapter
 - ② Turn on the printer by holding both the feed button and power button for five seconds.

③ With Power LED and Alert LED flashing, the printer enters into Configuration mode after 30 seconds.

④ You can upgrade the firmware via the web.

Configuration

Configuration of the I80 printer is done through a built-in web page. This allows you to configure the printer from any device that has a browser and is compatible with your I80 communication capabilities.

- 1. Turn the printer ON.
- 2. Connect a USB cable between the printer and a PC.
- 3. To access the I80 web page, push the Power button twice rapidly. This will put the printer into Configuration mode.
- 4. When the printer is in Configuration mode the POWER and FAULT LEDs will flash together.
 - a. Open browser on your PC and type <u>169.254.200.1</u> into the address bar of the browser and hit Enter A login box should appear:

I-820 Configuration Interface	
Password:	
Login	
English 💌	
W	ww.printek.com

- b. Type "0000" and hit Enter- you should now be at the home page for I80 Configuration.
- 5. The main configuration screen of the I80:

a fitting learning the base the	a helderhik			
isessus 12345#789852 Candigeration 00				
uer bilt 41 M - Ser og at 1994 Classifier (1975 - Ser og at 1994) Classifier (1975 - Ser og at 1994)	Harper Carlor 10 M Carl J (1999) Carl J (1999)	10110a		
	and a second	Training Court and		
OF Course New York (NOT Sector of Early Sector	Terrelation Frame	O		
ner Carle; Sen 1203 Sen fan Sen Ander Sen fan Ander Sen H	A Summer Section 2014 A Summer Section 2014 A Summer Section 2014 A Summer Section 2014 A Summer Section 2014 And And And The Summer Section 2014	nie zuche zu einen einen Einen einen ein Einen einen ein		
netBale deploy - 15 deploy -	11. Denote the DenoteChin Mellor' 14. Denote the Mellor' 14. Denote the DenoteChin Mellor B 13. Denote the DenoteChin Mellor 14. Denote the DenoteChin Mellor 14. Denote the DenoteChin Mellor 15. Denote the DenoteChin Mellor 15. Denote the DenoteChin Mellor			
Allahan ang Ang Allaha Maga Allahan And S	 (1) The state of t			
	14 - MCL 042 Sizes (125, 220, 127 Car)			

This is an overview of the printer configuration.

To return the printer to normal operating mode, double-click the Power button. The POWER LED will be returned to a solid light.

At the top of the Main Page are selections to access the sub-menus.

A. Connectivity Parameters

This page allows you to setup the connection to your printer. Depending on the optional interface installed, you will see either Bluetooth Config or WI-FI Config. In the detailed descriptions, an asterisk (*) indicates the factory default value.

Bluetooth Config:



Paired Mode:

Possible values: UnPaired, Paired*

This feature allows Bluetooth pairing to occur between the printer and the connecting device whenever Pairing is required by either device. Pairing requires that the PIN on the printer and the connecting device exactly match each other.

Discoverability:

Possible Values: Off, On*

This feature is used to set whether the printer may be discovered by other Bluetooth devices. It should only be set to "Off" after the printer has been discovered and paired with a host computer.

PIN:

Possible Values: 0000*, Up to 16 Numeric Characters.

www.printek.com

Note that this feature is only available if Pairing Mode is set to "Paired". The PIN value must exactly match the PIN value set in the Bluetooth manager on the host computer.

Connection:

Possible Values: Printer*, Personal Area Network

This feature selects the role of the printer's interface in the Bluetooth network.

In Printer mode, the printer behaves as a regular Bluetooth device.

In Personal Area Network mode, the printer behaves similar to a Wi-Fi access point.

The Power LED will flash off every two seconds while in this mode.

After pairing with the printer, the host Bluetooth icon will appear different, indicating that an access point is present.

Some hosts require an extra connect step after pairing. After connecting, the printer will issue an IP address to the host and the host can communicate to the printer as if it were a Wi-Fi printer. The printer's address to the host is always 169.254.200.1.

In the host device's browser (if equipped) this address may be entered in the address bar to access the printer web page.

Personal Area Network mode can also be activated outside of the printer web page.

To enter Personal Area Network mode, press and hold the Power and Paper Feed buttons until the Power and Alert LEDs light. Release both buttons, and the printer will restart in Personal Area Network mode. To exit Personal Area Network mode, press and hold the Power and Paper Feed buttons until the Power and Alert LEDs light. Release both buttons, and the printer will restart in normal Bluetooth mode.

B. Image Parameters

This page allows you to make selections about the image to be printed.

the spring	hand being . Developing Ann. Region Spring And Kolman Delah	
lunge Config	a;	
farme	CONTRACTOR STATE	
Faces Inclusion	10000 4	
Fran Tree	Parta + Parta D'S Res PUT	
Lencinge	Artica *	
Dat-High	New P	
Chain had () pr	Teach - Freek 2019 Freek 2010	
(Same Spr.)	(76)	
Defent Line Spinist	to the set	

Current Emulation:

ESCPOS is the default emulation in I80

Possible Values: PRINTEK, ZPL, CPCL, ESCPOS*, IPL, AUTOIMAGE, PDF, POSTSCRIPT, IMAGE

The I80 printer is capable of using several different emulation modes. This feature sets the family of printer commands that may be used by a host application program to control the various capabilities of the printer. The printer will only respond to commands valid for the currently selected emulation. For more information, please refer to the *Integrator's Guide*.

Besides the popular printer languages to choose from, the following selections allow the I80 to print many other file formats directly, without the need for a driver.

AUTOIMAGE – selected when mixed PDF and POSTSCRIPT images are sent to the printer. The printer will determine which type of file has been sent. This can increase printer response time.

PDF – When in this mode the printer will directly print Portable Document Files (PDF).

POSTSCRIPT – When in this mode the printer will directly print Postscript formatted files (.ps). You can also use a generic Postscript driver to print when in this mode.

IMAGE – selected if just image files are being sent to the printer. When in this mode the printer will directly print the following file types: .png, .jpg, .bmp, .pbm, .svg, .tif

www.printek.com

Default Font:

The I80 has the ability to use True Type Fonts. All True Type Fonts loaded into printer memory are listed here. When using emulations that do not specify the font for each line of text, select the font you would like to use as the default font. All print jobs will use the default font unless a command is sent to the printer to use another font.

Chars Per Inch and Default Text Line Spacing:

This determines how large the characters are and how many characters will print in a one inch space. The higher the number, the greater the number of lines per vertical inch of print.

C. Device Config

This page allows you to set certain hardware parameters on the printer.

ine	Septem Section for more pass for the	e innue
besice Couffg	et.	
Circle.	lar 4	
State Series	to a management	
Test field	- A Antipe 1 Maximum per 1 Contactinge -	
Par Inco Townsi	a himpitan	
Station Division Ration Annual	(1) whe	
Contraction in the local division in the loc	at here	
Lations	-1 - 100	
Come .	1.4	
Printing.	Tanan P Mark	
nger fresilities 🛤		
la de		

Units

Select between inches or millimeters. If you change units, do so before entering other settings.

Max Paper Speed

Possible values: 25.4 to 76.2 mm, Default = 76.2

When using labels or heavy paper stock, you may need to decrease the paper speed to prevent paper jams.

Mark Seeking

Possible values: roll paper, black mark paper, and cut sheet paper.

Set the value when using regular or label media with black alignment marks.

Note: Before adjusting black mark thresholds, set mark width to match the width of the black mark.

13

Paper Sensor Threshold

When using paper with a black on the front adjust this setting to insure the paper stops at the black mark.

- Set paper sensor threshold: white paper has relatively smaller sensor brightness while black paper has relatively bigger sensor brightness. When sensor brightness is bigger than paper sensor threshold, printer could detect black mark. Otherwise, printer could not detect black mark. In latter case, users have to lower paper sensor threshold. For example, when printer stops in the middle of white paper, users could increase the paper sensor threshold. The recommended value is between 75% ~ 95%.
- 2. Close lid and press paper feed. The paper should stop with the bottom of the form at the tear bar.

Backup Distance Before Printing

Used with Mark Seek. User defined. This is the distance the printer will pull in the paper before starting to print.

Feed Distance After Printing

Used with Mark Seek. User defined.

Mark Seek Distance

Used with Mark Seek. User defined. This is the distance the printer will advance paper to seek the mark before displaying a Paper Out condition.

Stop Distance After Mark

Use with Mark Seeking. User defined. This is the distance the printer will advance the paper after the mark is detected.

Mark Width

Use with Mark Seeking. User defined.

Left Margin

Setting this value will tell the printer how far from the left edge of the paper to start the print job.

Contrast

Possible values 0 - 10. Default value is 5

The lower the value the lighter the print. The higher the value the darker the print.

14

Paper Sensitivity

This is a locked value. These settings are supplied by the paper manufacturer. The default settings cover most grades of paper. If you are using non-standard paper consult the paper manufacturer for recommended settings.

Power sleep

Possible values: Disabled, 10, 30, 60, 120, 180 minutes. Default value is Disabled.

This timer will turn the printer off if it has not been used for the time set. Disable this feature by setting the time at **Disable**.

D. Fonts

the Willing Septidg Secting for Spin Laws Bothlese Shits				
Fonts == Current Fint Mapping 🚠				
Tylesifer His &	Too Finit Ass	hits .	Indiatectives adult Ann.	
	Sodie		Service Municipality	
(30)(00)(5%) he is a crosser	Station Section			
C==0	Line Line Line	4	*	
COMPANY OF A STREET, ST	180	2	*	
Report For fir 0	lamona .	1		
citeria 8	Literature Inc.	1		
Trees .	AEDO	1		
	terte .		1	
	BACODIA	3	h	
	Linempled	1.1		
	VOL OID Taken	3.		
	Deckg forge	1		
	Desing trapp Arrise 1 COL & Inc.	M	h.	

Upload Font File

Truetype Fonts (.ttf, .otf, .ttc and .bdf) can be uploaded here.

Languages like ZPL and CPCL can use the fonts by referring to them by their Font Family Name.

E. Image Config

User Define ESCPOS fonts

Enter Image Config – Current Emulation to set ESCPOS emulation fonts.

	EKMOBILE (1) (1)	
the special	And Long Developing And Region Space And Library Delaids	
Image Config	o;	
farme	CONTRACTOR AND A	
I want findame	10000 ·	
Ran Tree	Park 8 (Back STR Rack PD)	
Leiciagi	Arms 1	
Date-High	There a	
their het fige	Teach - Facebook Sectores	
Channe Tipe 1	1798	
Defect Line Spining	an terper	
Autor Darger 100-00	200	

User Define Western Fonts

Font A:

Font A: Letters and numbers print in FontA by default. The parameter of FontA is 12 * 24. For letters you could choose among three types of typeface: art font, Song, equal-line face.

For numbers you could choose among three types of typeface: normal, bank, and OKI numbers. (If the command entails changing the font, the printer will use specific font.)

Letters

Art Font	ABCDEFghijk
Song	ABCDEFghijk

Equal-line face	ABCDEFghijk		
	Numbers		
Normal	1234567890		
Bank	1234567890		
OKI number	1234567890		

Font B: Letters and numbers print in FontB by default. The parameter of FontA is 9 * 17. Use system default font and cannot be changed.

Printout:

fontA: ABCDEFghijk

fontB: ABCDEFghijk 1234567890

User-defined: Users could change the size and font, using the system font and uploaded fonts. (If the command entails changing the font, the printer will use specific font.)

eg:

User-defined: 9 pounds. Western font file: STHUPO.TTF

ABCDEfghijk 1234567890

User Define Chinese Fonts

Font A: set in default. Parameters: 24 * 24. Use system default font and cannot be changed.

Printout:

www.printek.com

中文字体 FontA

Font B: set in default. Parameters: 32 * 32. Use system default font and cannot be changed. Printout:

中文字体 FontB

User-defined: Users could change the size and font, using the system font and uploaded fonts. (If the command entails changing the font, the printer will use specific font.)

eg:

User-defined size: 9 pounds Western Font File: STHUPO.TTF



User Define PRINTEK Fonts

Enter Image Config – Current Emulation to set PRINTEK emulation fonts.

(1) Default font: Liberation Mono:LiberationMono-Regular.ttf.

Liberation Mono:LiberationMono-Regular.ttf:

Printout:

@/*-0123456789;:<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ

www.printek.com

OCRA:OCRA.ttf:

Printout:

a/*-0123456789;:<=>?aABCDEFGHIJKLMNOP@RSTUVWXYZ

User Define ZPL Fonts

- (1) Use CW command to define font.
- (2) CW command:

CW {font mark},R:{font file name} eg: CWL,R:simsun.ttf

- (3) CW command set font valid before printer restart.
- (4) User-defined font sample:

eg1:

^XA	١
-----	---

Printout:

^CWL,R:simsun.ttf

^FO10,10

^ALN,70,30

^FDABCD123^FS

^XZ

eg2	
-----	--

^XA

Printout:

19

www.printek.com

ABCD123

^CWL,R:simhei.ttf

^FO10,10

^ALN,70,30

^FDABCD123^FS

^XZ

User Define CPCLFonts

(1) Use TEXT command to define font.

(2) TEXT command:{command} {font} {size} {x} {y} {data}, {font}:font name/number; {size}:font size;

ABCD123

{x}: horizontal position; {y}: vertical position; {data}:printing data;

Printout:

eg: TEXT 1 1 20 5 0123456789ABCDEFG

Sample:

e	g1	:				
!	0	200	200	300	1	

TEXT 1 1 20 5 0123456789ABCDEFG

CENTER

PRINT

eg2: Printout:

! 0 200 200 300 1

TEXT 5 1 20 5 0123456789 ABCDEFG

CENTER

PRINT

20

0123456789ABCD

0123456789ABCD

F. Graphics

This menu will allow you to load a graphics file into printer memory for use in creating your output. For instance, logos can be stored for recall and use by your host program (see *Integrator's Guide* for more details).

the Wilson Searchery Descently	Free States States Free Schwarzschuler			
Graphics #	Current Lage Mapping als			
The set of the set of the set of the set	(Lip Teen Line	* Logis 111 1		
Section receiver a Section () =				
Contract				
Search age the D				

Upload File

Select the graphics file to load into printer memory. Acceptable graphics formats are .jpeg, .pbm, .pcx, .bmp, .png and .svg.

Set Width

Select the width you want to use to display your logo: full width, half width, or quarter width.

Set index

Depending on the Index value used, you can automatically print the graphics file as a <u>header</u> (prints at the beginning of the print job), <u>footer</u> (prints at the end of a print job) or use the graphics print command to print anywhere on your receipt or label. See *Integrator's Guide* for more information on graphics commands.

When selecting header, the graphics file will automatically print the logo at the beginning of each print job.

When selecting footer, the graphics file will automatically print the logo at the end of each print job.

www.printek.com

You must set each of these values before selecting Upload Logo or the default values will be associated with your image.

Current Logo Mapping

Once uploaded into the printer memory, your image and settings will be displayed here.

Logo upload procedure: 1. Choose logo file, 2. Set the width, 3. choose the index. 4. Upload it

Delete logo procedure: 1. Choose logo 2. Delete it.

G. Update Printer Firmware, Upload Files to Printer Memory



Procedure:

- 1. Enter the config page
- 2. Click Updates.
- 3. Choose Upload Firmware, choose file and click Upload.

4. After uploading .tgz or .sw file, printer will restart itself. After uploading .fw file, the three LEDs will flash. Users should restart the printer.

Notice: If fail to upload firmware, which shows as alarm LED flash, power and charge LED off after printer on, users could upload the firmware again because the printer enters into configuration mode after charging for 30 seconds.

www.printek.com

Printer Application Updates, OEM information and Manuals and more can be uploaded here. Contact Printek retailer for more information.

H. Reset Printer Configuration to Factory Defaults (Safe Mode)

in Hint, again, housing in the same	a britingser
	, mean to having bounds
	Channel Carrier In Frances Contractor
	I mage Dordg To Factors Delivate
	Statewood County No. 4 million Federation

Printer to Factory Defaults: Printer settings can be restored to factory configurations.

Device Config to Factory Defaults: Printer settings can be restored to factory configurations.

Image Config to Factory Defaults: Printer emulation settings can be restored to factory configurations.

Network Config to Factory Defaults: WiFi and Bluetooth settings can be restored to factory configurations. Note that WIFI network configurations will be lost when Network Config to Factory Defaults is checked. There are two fundamental printing modes with mobile printers.

A. ASCII Based Print Jobs

The host sends the print job as a series of lines of characters, some of which represent the text to be printed, while other portions are command codes which tell the printer which font to use, where to locate the text, what barcodes to use, etc. These text-based files are encoded in a print language specific to the target printer.

The I80 understands ASCII based jobs in several different print languages. Refer to the <u>Appendix</u> or the *Integrator's Guide* for the list of print languages supported.

B. Graphic Based Print Jobs

The host assembles the printed image as a series of lines of dots, and transmits this image as a sequence of data bytes that represent the dot patterns assembled. Often these jobs or files have some control characters on the front end and / or rear end of the dot pattern bytes to define their format, help control pagination, etc.

Windows drivers in particular encode the image as a graphic based print job before it is passed along to the printer.

In addition to accepting graphic jobs from its Windows driver, the I80 can accept and print directly many other graphic image file types. This opens up the option to print job images from a variety of devices for which drivers or print utilities don't exist, such as some tablets and smartphones.

Please see the Integrator's Guide or your system integrator for more details.

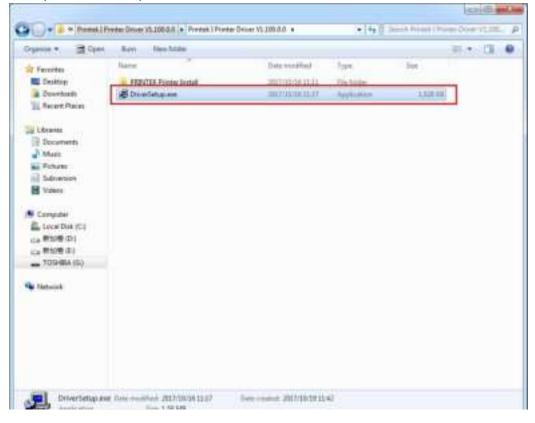
A. Windows Desktop Computers

Print Drivers

You may download the appropriate Windows driver from our website. Install the printer driver by the standard method for your version of Windows.

I. USB

a) Connect the printer to the PC using a USB-C cable before using the automatic install. Open DriverSetup.exe.



b) Select installing language.

Set Langu	age	
	Please Select Language :	
	English	•
	ОК	CANCEL
_		

c) In the popup window, select Next to proceed. It pops out the tab 'Please select installation method'. Click OK for automatic installation; click Cancel for manual installation.

O PRINTEK	Welcome to the Printek Printer Driver Setup Wizard. It can capture the available printer ports on your system. During installation, you can select whether to set the printer as the default one. You can also select whether to print the Test Page after setup is completed.
Please select install Click OK for automa	ation method X
	OK Canoel

d) For automatic installation, the system chooses PRINTEK I80; for manual installation please choose I80. Then click Next.

Printer Driver Setup Step2

PRINTEK	Selected printer:
	PRINTER I-BO

×

e) For automatic installation, the system chooses USBxxx port that Windows assigned to the printer when it was connected through the USB connection. If you are not connected to a USB connection to your host system select the correct port. See below to determine the COM port Windows assigned to your connection if you are connected through a Bluetooth connection.

Printer Driver Setup Step3	×
	Selected port:
	< Sack Next > Cancel

f) Click Next to proceed.



g) Click Finish to proceed.



h) Click Install to proceed.



i) Installation successfully.

Printer Driver Setup Step5		23
	Model:PRINTEK I-820	
	Port:USB001	
ОК	the setup wizard.	
The d	Iriver has been installed successfully!	
	ОК	
	Status:	
	Printer driver installation is complete.	
3	< Back Finish Cancel	

II. Bluetooth – General

- a) Turn on the printer. Make sure Bluetooth on your host device is turned ON.
- b) Your host Bluetooth manager may automatically scan for new devices, or you may need to tell it to scan. The discover name of the I80 printer will be "I80-xxxxxxxxxx,", where xxxxxxxxxx
 the Printer Serial Number.
- c) For Pairing, the default passkey is "0000".

III. Bluetooth – Determining the Bluetooth COM port

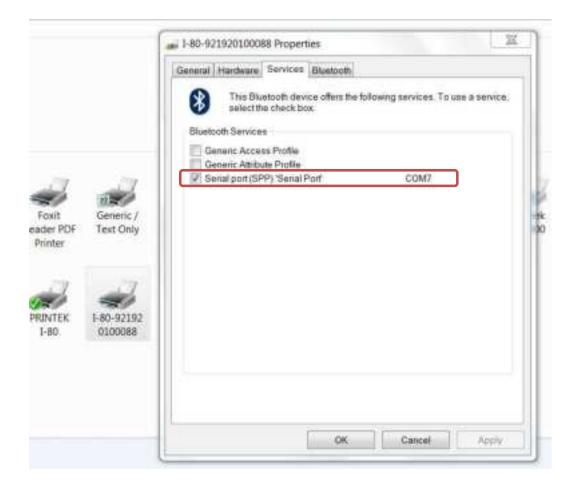
Windows 10 -

- a) Open Windows Settings
- b) Select Devices
- c) In Bluetooth & other Devices select Related settings More Bluetooth Options
- d) Select the COM ports tab.
 - a. The COM port that is assigned to the connection is the OUTGOING port. This is the port number to use when installing the driver.

etermine	whether you n	(serial) ports listed below. To eed a COM port, read the e with your Bluetooth device.
Port	Direction	Name
COM4	Outgoing	1-80-921920100088 'Serial Port'
		AddRemove

Windows 7 -

- a) Open Devices and Printers
- b) The printer should be displayed by the discover name.
- c) Right click on the printer icon.
- d) Select Properties.
- e) Select the Services tab.
 - a. Uncheck Generic Access Profile
 - b. Uncheck Generic Attribute Profile
 - c. The serial port assigned to the Bluetooth connection will be listed.



B. Android Tablets & Smart phones

I. Bluetooth

- a) Turn on printer. Make sure Bluetooth on your host device is turned ON.
- b) Your host Bluetooth manager may automatically scan for new devices, or you may need to tell it to scan. The discover name of the I80 printer will be "I80-XXXxxxx", where XXXxxxx = the Printer Serial Number.
- c) For Pairing, the default passkey is "0000".
- d) The printer should appear in your paired devices list.

<u>Note</u>: Android devices pair after discovery, but only <u>*connect*</u> to Bluetooth printers when the host application has asked it to print.

C. Apple[™] Tablets & Smartphones

I. Bluetooth

This feature and/or specific directions for use were not available as of this printing.

Media

A. Standard Media

Printek offers a variety of media types. See <u>Appendix C</u> for detailed descriptions and ordering information. You may also visit our website or contact your PrintekMobile sales representative for a complete and up to date description of our consumables and accessory products.

B. Black Mark Media Position

For automatic ticket printing, the Black Mark should be positioned as shown in the figure below. When using Mark Sensing mode (see <u>Configuration</u>, earlier in this document), FieldPro printers will

33

automatically position the output for tear-off and printing following a Form Feed command or by pressing the Paper Feed button.

For non-automatic paper positioning, refer to the *Integrator's Guide* for sensing and positioning commands.

Perforation	or tear position	Ļ
	71 Black Mark should span width of paper for best results.	↑ 0.25"

Optimum Black Mark Position

A. Cleaning

In normal environments, the printer should be cleaned after printing a few rolls of paper or if there are voids in the printout. For optimum performance and life, you should clean the Print Head and Platen Roller whenever you load new paper.

To clean the printer areas as described below, use a Thermal Head Cleaning Pen and MCR Cleaning Card available from Printek, or you may use cotton swabs moistened with isopropyl alcohol.

- Turn the printer off. Open the Paper Door and remove the paper.
- Using a Thermal Head Cleaning Pen, clean the white ceramic surface on the Print Head.
 <u>Caution</u>: Do not use sharp objects to clean the print head. This may damage the printer and require service. Such damage is not covered under warranty.
- Clean the Black Mark Sensor below the print head.
- Clean the Tear Bar.
- Clean the Platen Roller. Turn the Platen Roller with your finger to clean the entire surface.
- If a Magnetic Card Reader is installed, pass and MCR Cleaning Card through the MCR slot to clean the head.

You may also experience a buildup of paper dust in the printer. This may be removed using a can of compressed air or by vacuuming.

To clean the exterior of the printer, turn the printer off and use a soft cloth moistened with a mild detergent.

B. Troubleshooting

When encountering problems, the cause may be the printer or may sometimes be due to other problems with your system. Please review the following tables to solve common problems you may encounter with your printer. You may also visit <u>www.printek.com</u> for additional "FAQ's" that may assist you.

If you are still unable to solve your problem, please contact the company from whom you purchased your printer since they are most familiar with your systems. If they are unable to help you, please contact Printek.

I. General Error Conditions

Whenever the printer detects an error condition the Alert (red) Indicator will either flash or stay on. In some cases the audible alarm will also sound. Please refer to the following table for a list of what causes these conditions and how they may be corrected.

Error Indicator	Possible Cause	Solution
Flashes	Paper Out or Paper Door not fully closed	Make sure the door is fully closed by opening the door and closing it again until the door "clicks" closed. Check the platen roller for damage.
Stays On, With Alarm	Print job too large for printer memory	Divide long documents into individual pages. Printer power must be cycled to clear error.

II. Fault Description and Resolution

_	
Pro	blem

Possible Cause Solution

Printer will not turn on	AC adaptor not plugged in	Insure plug is fully into connector.
Printer turns itself off	Electrostatic discharge	May occur in extreme low humidity conditions. Turn printer back on with power button
Poor print quality	Print head dirty	Clean print head. Refer to Maintenance section of this document.
	Poor quality or "old" paper	Verify paper from approved source. Try new roll of paper
	Obstruction in paper path or paper improperly installed	Check paper path and reinstall paper.
Paper not feeding	Poor quality paper	Verify paper from approved source
Paper does not advance to black mark reliably	Dirty Black Mark/Paper Sensor	Clean sensor
	Black mark density/contrast	Adjust Mark Sensitivity as described to Device Menu Settings
Print is compressed vertically	Poor quality paper	Verify paper from approved source
vortically	Heavy or thick forms or specialty paper with slick finish	Lower the Max Paper Speed as described in the Device Config Menu.

C. Obtaining Service

If service is required for your printer, please contact the company where you purchased your printer.

If they are unable to assist you, contact Printek retailer to obtain a Return Authorization Number. Printers without Return Authorization will not be accepted.

APPENDIX

A. Appendix A – I80 Printer Specifications

Printing Specifications

Printing Method: Direct thermal. Printing Resolution: 203 dpi (8 dots per mm). Printing Speed: Up to 3 ips (11 pages per minute). Printing Width: Up to 8.27" (210mm), or A4 width.

Fonts/Characters/Bar Codes

Fonts: Virtually all TrueType fonts, from 6 cpi to 22 cpi depending on emulation chosen, plus scaling. International Characters: All common sets available via UTF-8 encoding. Bar Codes: Support common 1D and 2D codes, depending on emulation chosen. Downloadable firmware, fonts,

graphics, and logos.

Connectivity

Standard (All Units): USB 2.0 PNP.

USB-C connector. Wireless Options:

Bluetooth® Complete Bluetooth® 4.0 Duel mode with EDR Wi-Fi 802.11b/g/n compatible

Software

Drivers and Utilities: Drivers for WIN 7, WIN 8, WIN 10. Compatible with Windows Mobile and Android. Print utilities and SDK's for all platforms. Native App and Web printing.

Printer Setup via internal web page, access with browser from any host (tablets and smartphones included).

Emulations: Emulates many popular printer brands and languages including: Zebra CPCL and ZPL, Extech, and ESC POS. Firmware can be upgraded as new emulations become available.

Supports direct printing of Postscript, PDF, PBM, JPG, PNG, BMP, SVG and TIFF files.

Print Media

Paper Type: Direct Thermal Roll, Fanfold and Cut sheet.

Power Management

Power Option: 100-240 VAC wall adapter or 12 VDC in-vehicle adapter.

Physical Specifications

D x W x H: 2.6" x 12.3" x 4.3" (66 x 312 x 109 mm)

Environmental Specifications

Operating Temp: -10° to 45°C Storage Temp: -20° to 60°C Humidity: 10% to 90% RH (noncondensing).

Operator Controls and Indicators

3 LED indicators for general fault, power and update status indication. Buttons for power and paper feed. Sensors for paper out, black mark detection, and door open.

Memory Capacity

256 MB Flash, 512 MB DDR2. Standard memory supports large and graphic intensive print jobs.

Durability and Reliability

Durable PC-ABS case. Print head life: min 50km @ 12.5% coverage MTBF: 20,000 hours in normal use.

Regulatory Approvals

FCC Class B, CE mark, RoHS, UL listed AC adapters.

Warranty

2-year printer warranty on the entire printer – case, print head, included.

Accessories & Options

- Direct thermal roll, approx. 3m/roll (if shipped with printer)
- AC Wall Adapter, 100 to 240 VAC (with power cord)
- Print and charge versionIn-vehicle Power Adapter, 12-24
 - VDC Spare batteries in multi-packs
- Data cable: USB (USB-A to USB-C)
- Shoulder strap
- A4 paper with spacer
- Fanfold tray
- Media in Case Quantities
- Popular Mounting Systems
 - In-Vehicle Systems
 - Cart Mounting Systems
 - Fixed Mounting Systems

Glossary of Terms

802.11	Wireless networking communication standards created by IEEE.		
Ad-Hoc	A Wi-Fi network consisting of only stations (no access point). Same as Peer-to- Peer.		
authentication	The process a Wi-Fi station uses to identify itself to another station.		
Bluetooth	A definition for short range radio frequency communications.		
client	Any node on a network that requests services from another node (server).		
character pitch	The horizontal spacing of characters. Measured in cpi.		
срі	Characters per inch.		
default	Value or configuration assumed when the printer is powered on or reset.		
DHCP	Dynamic Host Configuration Protocol. A method used to centrally control the assignment of IP addresses on a network.		
dpi	Dots per inch. Generally used to refer to graphics density or resolution.		
font	A group of characters of a given shape or style.		
infrastructure	A Wi-Fi network consisting of stations connecting to a wired network or other stations via an access point.		
interface	The connection between the printer and the host computer.		
IP	Internet Protocol. A specification for packets, or datagrams, of data and an addressing method to allow the exchange of data with another system. Must be combined with another protocol such as TCP to create a complete connection with the other system.		
LAN	Local Area Network.		
LED	Light emitting diode.		
lpi	Lines per inch.		
40	www.printek.com		

margin	An area along any edge of a form where data may not be printed.
Peer-to-Peer	A network consisting of only stations (no access point or central server). Same as Ad-Hoc.
reset	Initialization of various operating features of the printer to the value or state assumed when the printer is powered on.
server	Any node on a network that provides services to another node (client).
SSID	Service Set Identifier. An identifier attached to packets on a Wi-Fi network that identify the particular network the packets are intended for.
ТСР	Transmission Control Protocol. A specification that controls the connection between systems on a network.
top of form	The vertical position where the first line is printed on the paper. Also the position the paper is advanced to when a form feed (FF) character is received from the host or the Form Feed button is pressed on the printer's control panel.
top of form USB	the paper is advanced to when a form feed (FF) character is received from the
	the paper is advanced to when a form feed (FF) character is received from the host or the Form Feed button is pressed on the printer's control panel.
USB	the paper is advanced to when a form feed (FF) character is received from the host or the Form Feed button is pressed on the printer's control panel.Universal Serial Bus.Wide Area Network. Refers to connections that allow one LAN to communicate
USB WAN	 the paper is advanced to when a form feed (FF) character is received from the host or the Form Feed button is pressed on the printer's control panel. Universal Serial Bus. Wide Area Network. Refers to connections that allow one LAN to communicate with another LAN(s). Wired Equivalent Privacy. A security protocol for wireless LANs designed to

Index

802.11, 30	Contrast, 14	Front Paper Sensor
Add Enterprise Network, 11	Control Panel, 6	Threshold, 14
Add Personal Network, 11	CPCL, ii, 12	Gap Paper Sensor Threshold, 14
Address Method, 10	срі, 30	GateWay, 10
Ad-Hoc, 30	Current Emulation, 12	General Error Conditions, 25
Alert, 6	Current Logo Mapping, 16	Graphics, 16
Android, 3, 20	Current Printer Config, 10	IMAGE, 12
Android Tablets & Smart	default, 30	Image Parameters, 12
phones, 20	Default Font, 12	infrastructure, 30
Apple, 3, 21	Default Text Line Spacing, 13	interface, 30
authentication, 30		IP Address, 10
Auto Off Timer, 15	Device Config, 13	IP54, 3
AUTOIMAGE, 12	DHCP, 30	IPL, 12
Available Networks, 11	discover name, 19, 21	LAN, 30
Backup Distance Before	Discoverablity, 9	
Printing, 14	dpi, 30	LED, 30
Bluetooth, ii, 2, 8, 9, 19, 20, 21, 30	driver, 19	Left Margin, 14
Canadian Department of	Drivers, 19	lpi, 30
Communications Radio	ESCPOS, 12	Maintenance, 2, 23, 26
Interference Statement, i	Fault Description and	margin, 30
character pitch, 30	Resolution, 25	Mark Seeking, 14
Cleaning, 23, 29	FCC Part 15 Class B, i	Max Mark Search Distance,
client, 30	features, 31	14
Com Port, 19	Font Aliases, 15	Max Paper Speed, 13, 26
Configuration, 7, 22, 30	Fonts, 15	Media, 2, 22, 27, 28, 29
Connectivity Parameters, 8	form, 31	Mounting Options, 29
42	www.printek.com	

Obtaining Service, 26	reset, 31	Upload Digital Certificate, 12
Paired Mode, 8	Role Policy, 9	Upload File, 16
pairing code, 19	Safety Information, 24	Upload Font File, 15
Paper Energy Values, 14	Self-Test, 6, 24	USB, 19, 31
Paper Feed Button, 6	server, 31	USB port, 2, 19
Paper Load, 4	Set Date, 11	WAN, 31
passkey, 19, 21	Set index, 16	web page, 7
PDF, 12	Set Width, 16	WEP, 31
Peer-to-Peer, 30	Specifications, 2, 3, 27, 28	Wi-Fi, ii, 2, 20, 30, 31
PIN, 8, 9	SSID, 31	WI-FI Config, 8, 9
POSTSCRIPT, 12	Stop Distance after Mark, 14	Wifi Port, 10
power, i, ii	SubNetMask, 10	Windows, ii, 3, 18, 19, 20
Power Button, 6	Supplies and Accessories, 2,	WLAN, 31
Power On, 5	29	ZPL, 12
Quick Start Instructions, 4	TCP, 31	
Rear Paper Sensor Threshold, 14	Troubleshooting, 2, 23, 24, 25	
	Units, 13	