

FieldPro 530 Series

Operator's Manual



PRINTEKMOBILE™

Printek, LLC
3515 Lakeshore Drive
Saint Joseph, MI 49085
800-368-4636
www.printek.com

Printek, LLC. A **DASCOM** Company.
Part Number 7268 Rev G



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.

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



Statement of compliance:

The following products have been tested and comply with FCC Part 15, Subpart B and ANSI C63.4-2014 standard limits.

Printek Branded Mobile Thermal Printers:

Series/Model:	Tested by:	Report number:
Vehicle Pro series, VP420	AGC Attestation of Global Compliance	AGC05548190101FE01, AGC05548190102FE01
Interceptor series, I820	EST Technology Co., Ltd	ESTE-R1709080, ESTE-R1709081
Interceptor series, I80	EST Technology Co., Ltd	ESTE-F2103037
FieldPro series, FP530, FP530L	EMTEK Co., Ltd	ES180516013E, ES180516014E
FieldPro FP530si, Payload	AGC Attestation of Global Compliance	AGC05548180801FE01, AGC05548180802FE01
FieldPro FP541	WH Technology Corp.	CF17110506
MLP Series, MLP35	EST Technology Co., Ltd	ESTE-F1907016

Printek Branded Dot Matrix printers:

FormsPro 5100 Series Printer	Underwriters Laboratory	4788630615.1
PrintMaster 700 Series Printer	WH Technology Corporation	CF16100107

These devices comply with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) These devices may not cause harmful interference, and (2) these devices must accept any interference received, including interference that may cause undesired operation.

Importer:

Dascom Americas
34 Lakeview Court
Verona, VA, 24482 U.S.A.
PH: 540-256-1570
<https://dascomamericas.com>

For Printek branded product information:
<https://www.printek.com>

Dascom President: Ron Acorn

Signature: 

Date: April 7, 2021



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



This device complies with the requirements of the United Kingdom (UK) legislation of Electrical Safety Regulations, Electromagnetic Compatibility Regulations, if applicable the Radio Regulations and the Restriction of the Hazardous Substances in Electrical and Electronic Equipment Regulations.



 (Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or local store for recycling advice.)

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 10W/m².

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

Battery Disposal

Only dispose of used batteries according to your local regulations. If you do not know your local regulations, the Rechargeable Battery Recycling Corporation (RBRC) is a non-profit organization created to promote recycling of rechargeable batteries. For more information visit www.rbrc.org.



Acknowledgments:

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Wi-Fi is a registered trademark of the Wi-Fi Alliance

Windows is a registered trademark of Microsoft Corporation

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Read all set up and operating instructions before proceeding with operation. Do not operate in an enclosure unless properly ventilated. Do not operate near a heat source.



Lesen Sie vor der Inbetriebnahme die Aufbau- und Bedienungsanleitung. Betreiben Sie den Drucker nicht in einem kleinen, geschlossenen Raum, es sei denn dieser wird ordnungsgemäß belüftet. Nehmen Sie den Drucker nicht in der Nähe einer Wärmequelle in Betrieb.



No user-serviceable parts inside. Refer service or repairs to a qualified service professional. Use of genuine Printek replacement parts is required to warrant proper, safe operation. Any alteration or modification of this device voids the user warranty and may make the product unsafe to operate. The print head and motors get hot during use. Wait until they cool before touching them. Make certain the printer is disconnected from AC power before removing any covers or performing any required cleaning or maintenance. Connecting this printer to an ungrounded receptacle can result in electrical shock. Never place the printer near inflammable or explosive substances. Do not operate near liquid or spill liquid into the printer at any time.



Enthält keine Teile, die vom Bediener instandgesetzt werden können. Bitte wenden Sie sich bei Instandsetzung oder Reparatur an qualifiziertes Kundendienstpersonal. Die Verwendung von echten Printek Ersatzteilen ist notwendig, um ordnungsgemäßen, sicheren Betrieb zu gewährleisten. Änderungen oder Modifikationen dieses Geräts machen die Garantie ungültig und können den sicheren Betrieb des Produkts gefährden. Während des Druckens werden Druckerkopf und Motoren heiß. Warten Sie, bis sich die Teile abgekühlt haben, bevor Sie sie berühren. Vergewissern Sie sich, dass der Drucker nicht mehr an die Stromquelle angeschlossen ist, bevor Sie Abdeckungen abnehmen oder das Gerät reinigen bzw. warten. Schließen Sie diesen Drucker nicht an eine ungeerdete Steckdose an; dies kann zum Elektroschock führen. Setzen Sie den Drucker niemals in die Nähe von feuer- oder explosionsgefährlichen Stoffen. Betreiben Sie den Drucker nicht in der Nähe von Flüssigkeiten und lassen Sie keine Flüssigkeiten in den Drucker gelangen.

Specifications are subject to change without notice.

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Introduction

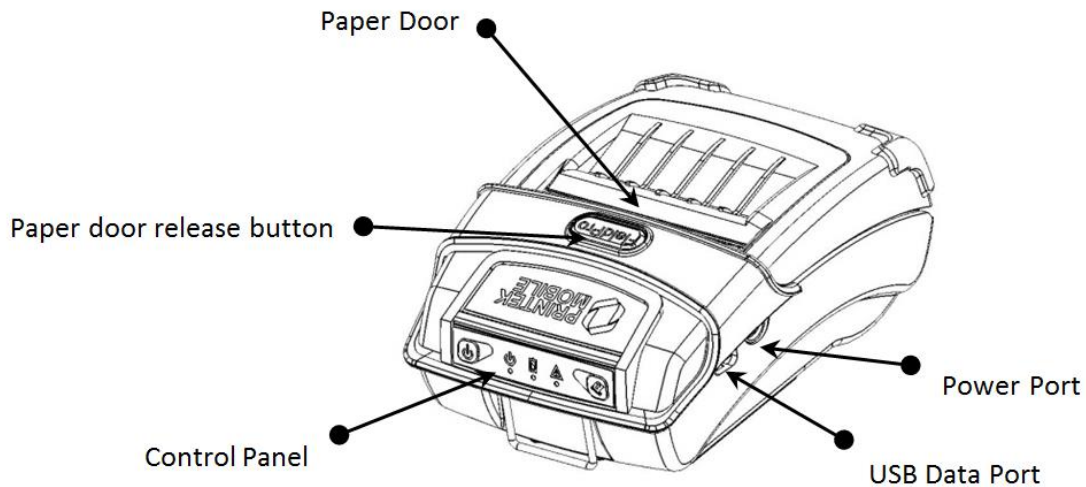
Thank you for purchasing the Printek FieldPro 530 Series mobile thermal printer also referred to in this manual as the “FP530” or “FP530L”. The FP530 series prints on special thermal media supplied in roll form up to 3.125 inches wide. All models are equipped with a USB port which supports cabled communications. All models support an optional internal Bluetooth or Wi-Fi interface. Complete specifications may be found in [Appendix A – FieldPro 530 Printer Specifications](#) and [Appendix B – FieldPro 530 L Printer Specifications](#).

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

[Maintenance and Troubleshooting](#) describes how to maintain the printer for optimal performance and has information on how to diagnose any problems that may occur.

Printek recommends using genuine Printek supplied media and accessories. For detailed lists and contact information, please see [Appendix B – Supplies and Accessories](#) & [Appendix C – Media](#).

Printer Features



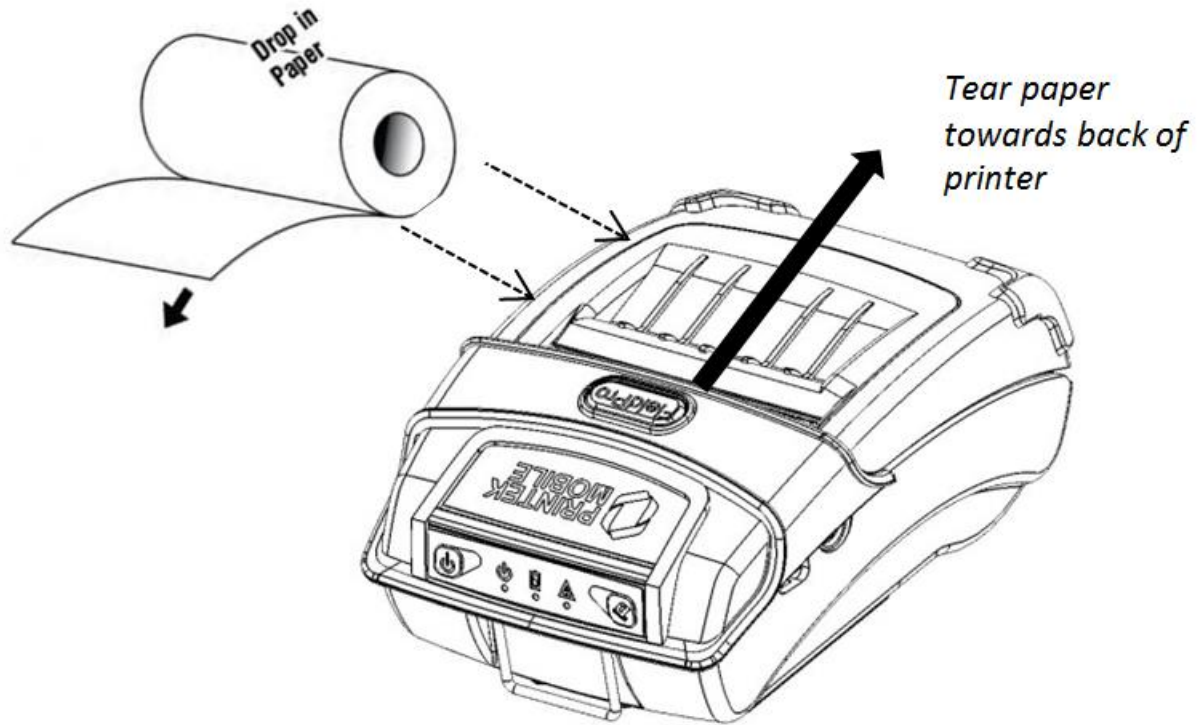
Your FieldPro 530 features:

- Easy-to-read control face and simple drop-in paper loading
- Quickly prints a wide variety of tickets, receipts, and labels (530L)
- IP54 rated for water and dust resistance... plus rated for repeated 6-foot drops to concrete
- Print speeds up to 5 ips
- Extensive fonts, character sets, bar codes and graphic capabilities
- Printer configuration is quick and easy with a web based interface
- The latest in battery technology provides for full-shift printing in all modes
- Compatible with Windows, Windows Mobile, Apple iOS, and Android
- Emulations that allow the printer to be a drop-in replacement for nearly any mobile printer

For detailed specifications reference [Appendix A – FieldPro 530 Printer Specifications](#) and [Appendix B – FieldPro 530L Specifications](#).

Quick Start Instructions

A. Paper Load



Press Paper door release button to open the paper compartment door. Pull small leader of paper out and close paper door. "Clicks" when properly closed.

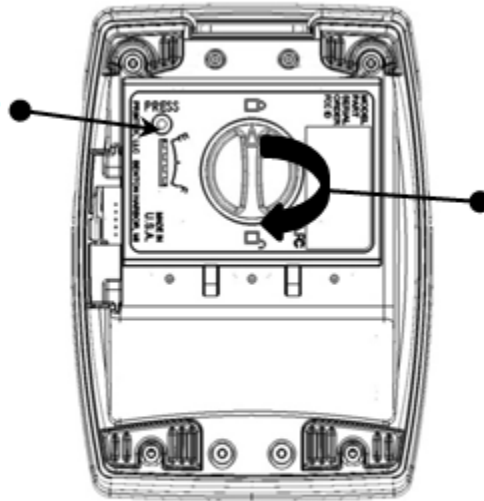
NOTE:
When using
2" paper,
install spacer
P/N: 93194

B. Battery Installation

Press button to see battery charge level.
4LED 100% charge
3LED 75%
2LED 50%
1LED 25%

Use Bay Chargers or AC/DC Power Adapter to charge.

Please contact your Printek sales representative for price and availability.



Loosen hand strap (not pictured) to access battery door.

Rotate knob 180° to unlock battery door.

Drop in battery.

Close battery door and rotate knob 180° to lock.



C. Charge Battery




Uncover the printer ports and plug in your AC power adapter to the Power port (must be a Printek-supplied accessory). The yellow LED will show solid ON while the printer battery is charging.

D. 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 10 seconds). The red LED will go off, leaving the green LED on to indicate the printer is ready to print.

E. Control Panel

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

Power & Status (Green/Red) 	Battery (Yellow) 	Alert (Red) 	Indication
On	Off	On	Booting up
On	Off	Off	Ready
On	Off	Flashing	Paper Error/Lid Open
Flashing	Off	Off	Job is arriving
Flashing	Off	Off	Job is printing
Flashing	Off	Flashing	IP over USB active
Solid, Flashes Off Every 2 Seconds	Off	Off	Wireless Personal Area Network active
	Solid		Charging Battery
	Flashing		Battery Low

F. Performing a Printer Self-Test



With power on, press the paper feed button twice quickly.

Configuration

Configuration of the FP530 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 FP530 communication capabilities.

1. Turn the printer ON.
2. Connect a USB cable between the printer and a PC.
3. To access the FP530 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 **169.254.200.1** into the address bar of the browser and hit Enter - A login box should appear:



- b. Type "0000" and hit Enter- you should now be at the home page for FP530 Configuration.

5. The main configuration screen of the FP530:

This is an overview of the printer configuration. The battery icon shows the relative charge in the battery. The more bars, the higher the charge. An AC plug will appear in the battery icon when the printer is plugged into an external power source.

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.



Wherever the book icon appears in the printer configuration pages, click it to access the user manual pages for help.

A. Connectivity Parameters

This page allows you to set up 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:

PRINTEKMOBILE™

Main Bluetooth Config Image Config Device Config Fonts Graphics Updates Reset To Factory Defaults

Bluetooth Config

Local Name: **FP530-KAA17543**
MAC ADDRESS: **00:16:A4:06:BC:18**

Paired Mode
 UnPaired Paired

Discoverability
 Off On

Pin

Connection
 Printer
 Personal Area Network

Connection Note: Submit Changes will force restart.

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.

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 WiFi 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 WiFi 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.

WI-FI Config:

The screenshot shows the Printek Mobile web interface for WiFi configuration. At the top, there is a navigation menu with links: Main, WIFI Config, Image Config, Device Config, Fonts, Graphics, Updates, and Reset To Factory Defaults. The main content area is titled "Wireless Configuration" and contains a form with the following fields:

IP Address	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/>
SubnetMask	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/>
Gateway	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/>
Wifi Port	<input type="text" value="8023"/>

Below the form are two buttons: "Submit Changes" and "Discard Changes".

At the bottom, there is a section for "Address Method" with a note: "(Note: Submit Changes will force restart.)". It has three radio button options:

- Static
- DHCP
- Personal Area Network

A "Submit Address Method Change" button is located to the right of these options.

Wireless Configuration

This will display the current Wi-Fi configuration:

IP Address – user defined. If Static Address Method is selected, type in the address the printer will use on the network.

SubNetMask – user defined. If Static Address Method is selected, type in the subnet mark of the network.

GateWay – user defined. If Static Address Method is selected, type in the gateway address of the network.

WiFi Port – user defined. Type in the IP port to be used by the printer. (default value = 8023)


Address Method – user selectable

Static – printer will always connect to the network using the IP address defined.


DHCP – printer will acquire an IP address from your network DHCP server

Personal Area Network –The printer will broadcast itself as a network connection. The Power LED will flash off every two seconds while in this mode. The SSID will be the serial number of the printer. When connecting to the printer, the passphrase is the printer's serial number.


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 WiFi mode.

Available Networks 


BSSID	Frequency	Signal Level	Flags	SSID	Add/Connect
e8:b3:73:5a:2d:67	2412	183	[WPA2-EAP-CCMP-preauth][ESS]	EngineeringTest	Add/Connect
e0:56:27:71:e8:98	2412	210	[WPA-PSK-TKIP][WPA2-PSK-CCMP][WPS][ESS]	Printek3	Add/Connect
00:25:9c:77:d4:57	2437	184	[WPA-PSK-TKIP][ESS]	Printek2	Add/Connect

Previously Connected Networks 

Network ID	SSID	BSSID	Status	Connect/Disconnect	Remove
0	Testing	any		Connect	Remove

Currently Configured Networks 

SSID	Remove
Testing	Remove

Set Date 

Year 2016	Submit
--------------	--------

Available Networks – access points detected by the printer will be displayed. Select Add/Connect to use one of these access points.

Previously Connected Networks – access points detected by the printer or added through Add/Edit Network will be displayed. Select Connect to use one of these access points or Remove to delete it from printer.

Currently Configured Networks – access points added through Add/Edit. They may not have been connected yet. Select Remove to delete access point from printer.


Set Date – Some Enterprise network connections require this setting. Simply enter the current year.

Add/Edit Network

Enter the SSID of a network connection. If authentication is used select the authentication type. Click Next. The following form will change depending on the authentication type:

WPA-PSK

Enter the password for the network connection.

Add/Edit Network 

Key Management Protocol WPA-PSK	Network Name Test1	Next
Password <input type="text"/>		
Submit Changes	Discard Changes	

WPA-EAP or IEEE8021X

These are Enterprise network settings. Consult your server manual for recommended settings.

Add/Edit Network [?](#)

Key Management Protocol IEEE8021X ▼	Network Name Test2	Next
EAP TTLS ▼		
Phase1 ▼	Phase2 ▼	
Identity <input type="text"/>	Anonymous Identity <input type="text"/>	
Password <input type="text"/>		
Private Key Password <input type="text"/>	Private Key2 Password <input type="text"/>	
CA Certificate File ▼	Client Certificate File ▼	Private Key ▼
CA2 Certificate File ▼	Client2 Certificate File ▼	Private Key2 ▼



Submit Changes Discard Changes

Upload Digital Certificate


If your enterprise network uses digital certificates as another form of authentication, you can upload the certificates here.

B. Image Parameters

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

Main WIFI Config Image Config Device Config Fonts Graphics Updates Reset To Factory Defaults

Image Config 

Submit Changes Discard Changes

Current Emulation	PRINTEK ▼
Default Font	Liberation Mono:LiberationMono-Regular.ttf ▼
Chars Per Inch	10.7 ▼
Default Text Line Spacing	5 ▼

Current Emulation:

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

The FP530 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 FP530 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, .tiff

Default Font:

The FP530 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:

NOTE: These settings only function in Printek Emulation

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.

PRINTEKMOBILE™	
Main WIFI Config Image Config Device Config Fonts Graphics Updates Reset To Factory Defaults	
Device Config	
Login Password	
<input type="text" value="0000"/>	
Form	
Units	<input type="text" value="inches"/> NOTE: Select Units before changing other settings.
Max Paper Speed	<input type="text" value="5.5"/> inches per sec.
Mark Seek	<input checked="" type="radio"/> Off <input type="radio"/> Front
Sensor Brightness	Front=[75%]
Front Paper Sensor Threshold	<input type="text" value="30"/> % range 0-100%
Rear Paper Sensor Threshold	<input type="text" value="15"/> % range 0-100%
Gap Paper Sensor Threshold	<input type="text" value="90"/> % range 0-100%
Backup Distance Before Printing	<input type="text" value="0.35"/> inches
Feed Distance After Printing	<input type="text" value="0.35"/> inches
Stop Distance after Mark	<input type="text" value="0.75"/> inches
Mark Seek Distance	<input type="text" value="6.0"/> inches
Mark Width	<input type="text" value="0.20"/> inches
Left Margin	<input type="text" value="0.0"/> inches
Contrast	<input type="text" value="5"/> 1 - 10

Login Password

This allows the printer webpage password to be changed.

Units

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

Max Paper Speed

Possible values: 1.0 to 5.5 ips, Default = 5.0

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

Mark Seeking

Possible values: Off*, Front, Rear, Gap. (Note: Rear and Gap are available only on 530L models).

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

Sensor Brightness

Possible values 0-100%. This displays the reflectivity or light transmission of the media, depending on the setting for Mark Seeking. This value is updated once per second.

Note: Before adjusting black mark thresholds, set Mark Width to match the width of the black mark or label gap on your media.

Front Paper Sensor Threshold

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

1. With the lid closed and the black mark not over the front paper sensor, note the Sensor Brightness.
2. Open the paper lid and hold the paper against the front paper sensor so that the black mark is over the sensor. Note the Sensor Brightness.
3. Set Threshold = black mark brightness + ((paper brightness – black mark brightness) / 2) and click Submit Changes. *Example: black mark brightness = 10%, paper brightness = 80%.
Threshold = 10% + ((80% - 10%) / 2) = 45%.*
4. Close lid and press paper feed. The paper should stop with the bottom of the form at the tear bar.

Rear Paper Sensor Threshold (FP530L models only)

This is set the same as the front paper threshold but using the rear (in lid) paper sensor and the Rear Sensor Brightness.

Gap Paper Sensor Threshold (FP530L models only)

When using labels without a Black Mark, adjust this setting to ensure the label stops at the gap in between labels.

1. Remove 2 labels from the backing paper and close the lid so the backing is over the paper sensor. Note Sensor Brightness for Gap.
2. Open the lid and close it so a label is over the paper sensor. Note Sensor Brightness for Gap.
3. Set Gap Threshold = label brightness + ((backing brightness – label brightness) / 2) and click Submit Changes.
4. Close the 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.

Max Mark Search 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.

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. The default value is 5.

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

Paper Energy Values

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.

Auto Off Timer

Possible values 0 – 1440 minutes. The default value is 60.

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 0. The printer will give a 1-minute warning before shutting off.

D. Fonts

PRINTEKMOBILE™

Main WIFI Config Image Config Device Config **Fonts** Graphics Updates Reset To Factory Defaults

Fonts

Upload Font File

Choose File | No file chosen

Upload

Remove Font File

Select

Remove

Current Font Mapping

Font Family Name	Index
Liberation Mono	A
Roboto Condensed	B
Dancing Script	C
MICR	D
Liberation Serif	E
OCRA	F
HAN NOM A	G
Instruction	H
Andika Basic	I
OCR B Std	J
Liberation Sans	K
Atrian 3	L
VCR OSD Mono	M

Note: may need to refresh page to update mapping after upload or removal.

Font Aliases

Font Family Name	Alias
------------------	-------

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.

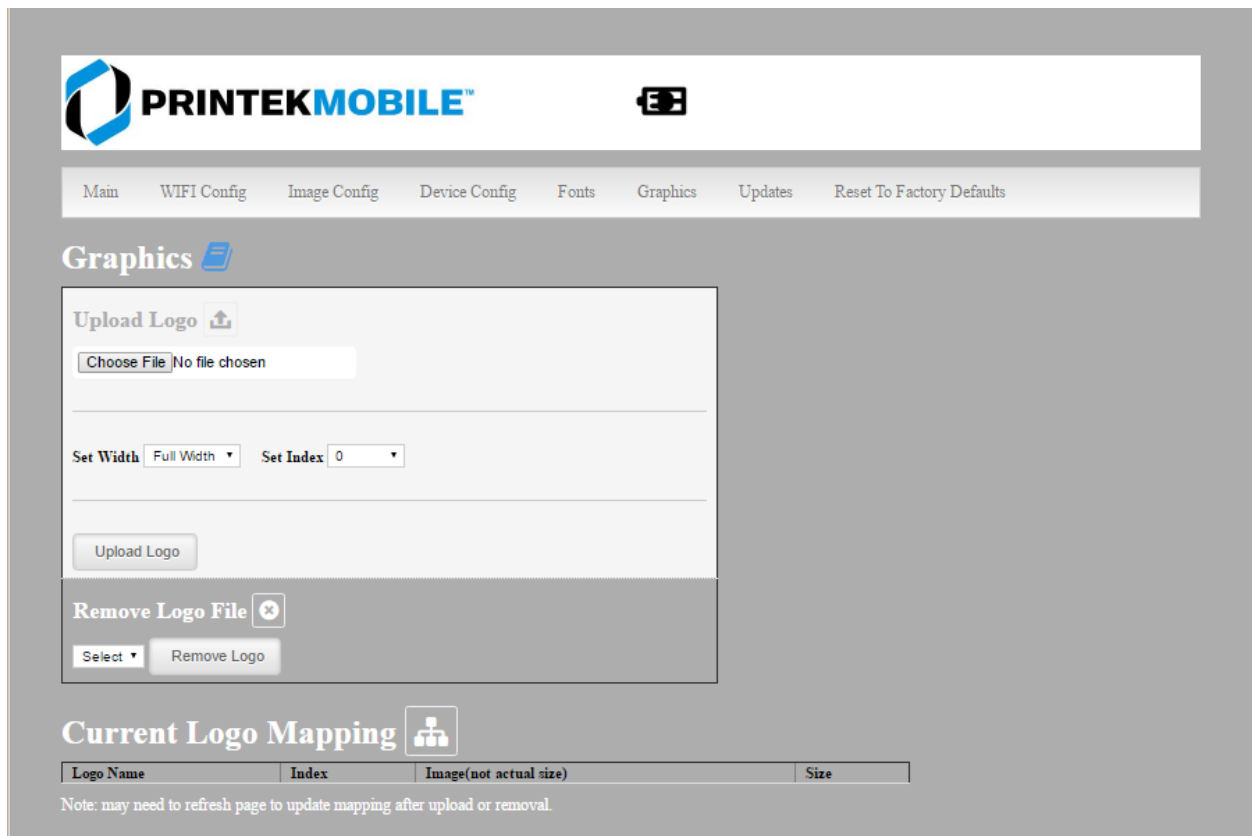
Printek emulation uses the Index value when selecting a font.

Font Aliases

Languages like ZPL and CPCL can use an uploaded Font Alias Table so legacy jobs can have their font names mapped to other uploaded fonts. Contact Printek Technical Support at (800) 368-4636 for more information.

E. 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).



Logo Name	Index	Image(not actual size)	Size
-----------	-------	------------------------	------

Note: may need to refresh page to update mapping after upload or removal.

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 header (prints at the beginning of the print job), footer (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.

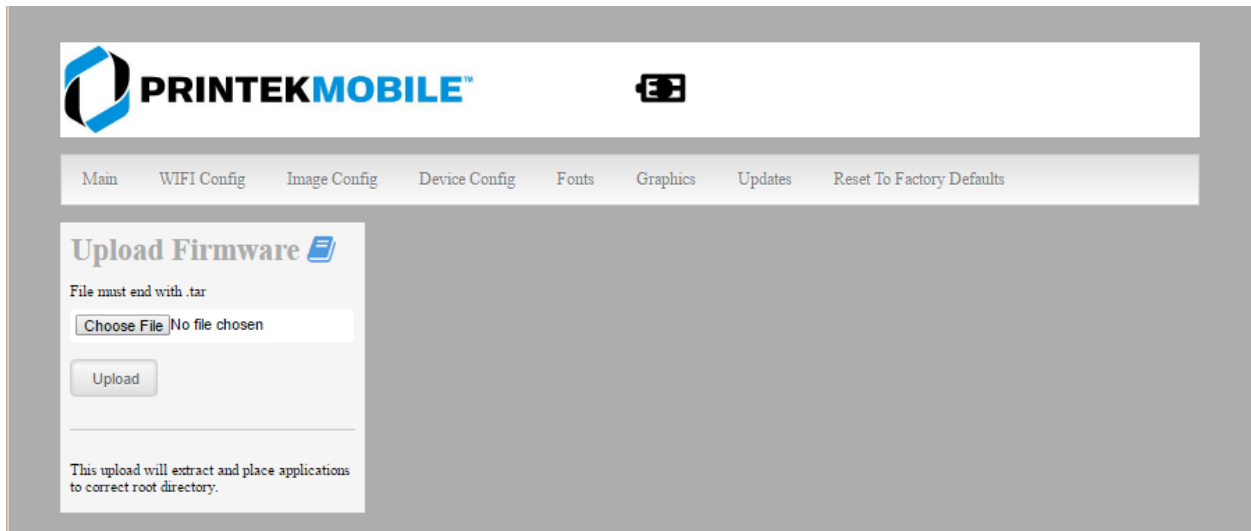
When selecting header, the graphics file will automatically print the logo at the beginning of each print job. When selecting footer, the graphics file will automatically print the logo at the end of each print job.

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

Current Logo Mapping

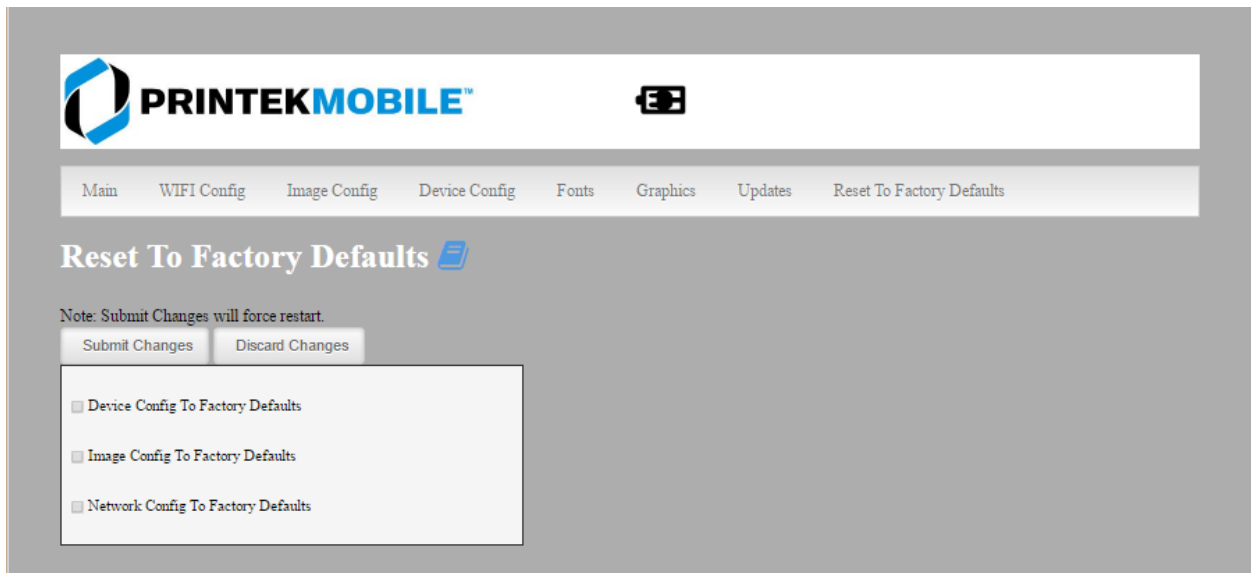
Once uploaded into the printer memory, your image and settings will be displayed here.

F. Update Printer Firmware, Upload Files to Printer Memory



Printer Application Updates, OEM information and Manuals and more can be uploaded here. Contact Printek Technical Support at (800) 368-4636 for more information.

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



Printer settings can be restored to factory configurations. Note that WIFI network configurations will be lost when Network Config to Factory Defaults is checked.

Printing Modes

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 FP530 understands ASCII based jobs in several different print languages. Refer to the [Appendix](#) 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 FP530 can accept and print directly many other graphic image file types. This opens 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.

Integrating the Printer into your Business Applications

Step by Step – Creating a Link from Host to Printer

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) Install the printer driver onto your host before connecting the printer. Follow prompts displayed during installation.
- b) Plug the printer into a USB port on your host system using a mini-USB cable.
- c) The printer will appear in the “Unspecified” devices section. Right click on the icon.
- d) In the popup window, select the Hardware tab. Note the USB port number displayed.
- e) Using the “Add Printer” wizard, install the printer using the driver file obtained from Printek and the USB port number noted above.
- f) After the printer driver installs, the printer will appear as “Printek 3-inch printer” under the “Printers and Faxes” heading of your Windows “Devices and Printers” screen.

II. Bluetooth – General

- 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 FP530 printer will be “FP530-XXXxxxxx”, where XXXxxxxx = the Printer Serial Number.
- c) For Pairing, the default passkey is “0000”.

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

III. Bluetooth – Windows 7 and above

- a) Turn on printer. Make sure Bluetooth on your host device is turned ON.
- b) Open the “Devices and Printers” folder.
- c) Select “Add a Device”. The printer will display using the discover name listed above.
- d) Select the printer from the list of devices.
- e) Select “Enter the Device’s Pairing Code”. The default pairing code is “0000”.
- f) A window will display informing you the device was successfully added, and the printer name will appear in the devices list. Close this.
- g) Printer now appears under “Printer and Faxes” heading of the “Devices and Printers” screen, as “FP530-serial #”. The icon may show that it is still configuring.
- h) Right click on the printer name or icon and select Properties. Select “Services” tab and deselect all items except for “SPP”.
- i) Now select “Hardware” tab. A virtual com port number will be listed here – make note of this COM Port number. Use this Com Port number when setting up the printer driver, under the “port settings”.

- j) Install the printer driver. Using the “Add Printer” wizard, install the printer using the driver file obtained from Printek and the COM port number noted above.
- k) After the printer driver installs, the printer will appear as “FP530-serial #” under the “Printers and Faxes” heading of your Windows “Devices and Printers” screen.

IV. Wi-Fi

Note: The following instructions are fundamentally the same for an Infrastructure or Wi-Fi Direct (peer to peer) setup. They also assume that you have already configured your Wi-Fi interface via the FP530 printer web page (see the section on Configuration).

- a) Perform a configuration printout to verify the printer Wi-Fi setup and to record the IP address assigned and the Port number.
- b) Install the printer as a local printer using the USB instructions above.
- c) In the “Devices and Printers” screen, right click the printer icon representing your mobile printer.
- d) Under Printer Properties, select the Ports tab, then select “Add a Port”.
- e) In the new dialog box which appears, select “Standard TCP/IP ports”; this will open the Standard TCP/IP Printer Port wizard.
- f) Follow the on-screen prompts in this wizard. You’ll use the IP address recorded above to set up the port. In the same screen you can also name the port something familiar and relevant, and this will appear as the name of the printer to the user.
- g) After the port is detected, it will be displayed as a “generic network card” – accept this by clicking Next / Finish.
- h) After you are finished adding the port, Windows will report it as a “Standard TCP/IP port”; click OK to accept this.
- i) Close the Printer Port window.
- j) Now in the Printer Properties dialog box your IP address (or the familiar name you assigned above) will appear in the list of ports available. Select it to configure the port.
- k) Windows defaults standard TCP/IP ports to port number 9100. The FP530 Wi-Fi port number is internally set to 8023. Change the port number to 8023 in the Windows screen and click OK.
- l) Click “Apply” in the Printer Properties box.
- m) Your FP530 printer driver should now be properly coupled to the Wi-Fi parameters you have chosen.

B. Windows Tablets and Smartphones

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

C. 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 FP530 printer will be “FP530-XXXxxxxx”, where XXXxxxxx = the Printer Serial Number.
- c) For Pairing, the default passkey is “0000”.
- d) The printer should appear in your paired devices list.

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

II. Wi- Fi

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

D. Apple™ Tablets & Smartphones

I. Bluetooth

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

II. Wi-Fi

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

Media

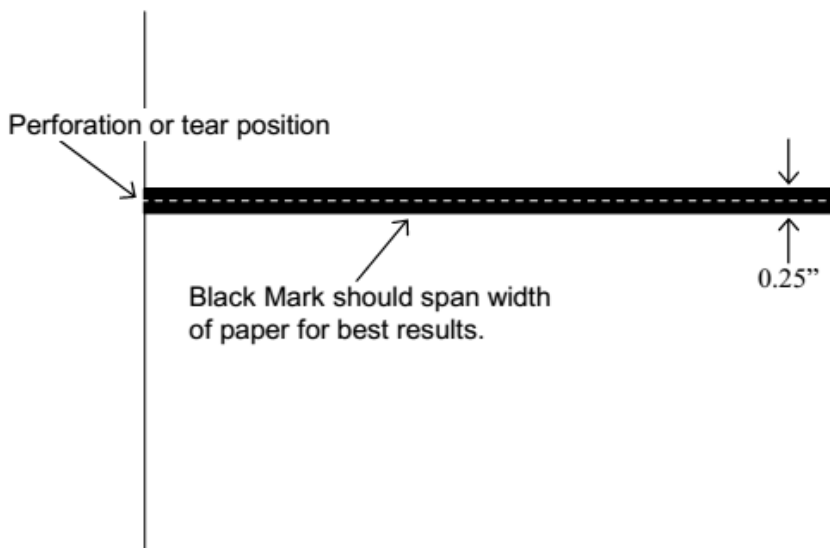
A. Standard Media

Printek offers a variety of media types. See [Appendix D](#) 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 [Configuration](#), earlier in this document), FieldPro printers will 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.



Optimum Black Mark Position

Maintenance and Troubleshooting

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.
Caution: Do not use sharp objects to clean the print head. This may damage the printer and require service. Such damage is not covered under the 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 an 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. Battery Care

I. Getting the Maximum Battery Life

New batteries are shipped in an “uncharged” state and must be charged for at least 4 hours prior to the first use. Maximum battery capacity is not reached until after completing a minimum of three complete charge and discharge cycles.

II. Charging the Battery

- Plug the power adapter into a power source appropriate for the adapter being used.
- Plug the power adapter into the power connector on the side of the printer. The printer’s battery charging circuitry will analyze the condition of the battery and begin charging it if necessary.
- If the battery is not fully charged, charging will begin, and the Battery Indicator will illuminate.
- When the battery is fully charged, the Battery Indicator will turn off. Charging may take up to 8 hours (4 hours with external desktop charger accessory) depending on the condition of the battery.
- The printer may be used while the battery is charging, but this will extend the time required to fully charge the battery.

- The power adapter may remain connected to the printer to keep the battery fully charged and will not cause damage to the printer or battery.

III. Additional Battery and Safety Information

- The FieldPro 530 series printers use an 11.25-volt 2950 mAH Lithium Ion battery.

Caution: Risk of explosion if battery is replaced by incorrect type. Dispose of used batteries according to the instructions.

- The recommended ambient temperature for charging is 68-77° Fahrenheit (20-25° Centigrade).
- Take the battery out of the printer when storing the printer for long periods of time. The battery storage temperature is 40-104° Fahrenheit (4-40° Centigrade). Do not store a fully charged battery at temperatures above this range for long periods of time or the battery may permanently lose charge capacity.
- Do not disassemble, short circuit, heat above 80°C, or incinerate the battery. The battery may explode.
- Only dispose of used batteries according to your local regulations. If you do not know your local regulations, the Rechargeable Battery Recycling Corporation (RBRC) is a non-profit organization created to promote recycling of rechargeable batteries. For more information visit www.rbrc.org.



IV. Testing the Power Adapter and Battery

To verify that the printer's internal battery charger is functioning properly, perform the following steps.

- Test the power adapter (100-240VAC/50-60Hz, 12/24VDC adapter) with a voltmeter to verify that its output voltage is 19 VDC.
- Connect the power adapter to a power source and then connect it to the printer.
- Verify that the printer's Battery Indicator is illuminated. If illuminated, the charging circuit is functioning properly.

Note: If the battery is already fully charged, the Battery Indicator may not illuminate.

- After the battery has been charged for five minutes, disconnect the power adapter.
- Perform a printer Self-Test.
 - Make sure the printer is turned off.
 - Press and hold the Paper Feed Button while turning the printer on.
- If the printer successfully prints the Self-Test, the battery is functional. If the Self-Test does not complete and the printer turns off, repeat this test with a known good battery.
- Once this test has completed successfully, allow the battery to fully charge. At the end of this time the Battery Indicator will turn off.

If the printer and battery do not appear to successfully pass these tests, refer to the [Troubleshooting](#) section for possible causes and solutions.

Note: This test only verifies that the power adapter, the internal charging circuit, and the battery are functioning properly. This test does not provide a valid indication of the relative capacity of the battery or how long it may hold a charge.

C. 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 www.printek.com 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 Technical Support at (800) 368-4636.

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

Problem	Possible Cause	Solution
Printer will not turn on.	Battery not installed properly	Remove and reinstall battery making sure the battery is seated with door closed.
	Discharged battery	Recharge battery.
Printer turns itself off.	Battery discharged	Replace or recharge battery.
	Electrostatic discharge	May occur in extreme low humidity conditions. Turn printer back on with power button.
Battery Indicator does not light or does not stay lit when power adapter is connected.	Battery already fully charged	No action required.
	Power supply not receiving power	Check building/vehicle circuit breakers/fuses.
	Faulty power adapter	Check output of power adapter with voltmeter. Should be 19 VDC.
Battery not charging.	Faulty power adapter or battery	Try new power adapter or replace battery.

Problem	Possible Cause	Solution
Poor print quality.	Low battery	Check and recharge battery.
	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.
Paper not feeding.	Obstruction in paper path, or paper improperly installed	Check paper path and reinstall paper (see " Quick Start Instructions ").
	Poor quality paper	Verify paper from approved source.
	Paper Door not fully closed	Verify door is closed.
Paper does not advance to black mark reliably.	Dirty Black Mark/Paper Sensor	Clean Sensor as described in " Maintenance " section of this document.
	Black Mark density/contrast	Adjust Mark Sensitivity as described in Device Settings Menu.
Paper not feeding reliably, or print is compressed vertically	Poor quality paper	Verify paper from approved source.
	Heavy or thick forms; specialty paper with slick finish	Lower the Max Paper Speed as described in Device Config Menu.
	Paper Door not fully closed	Verify door is closed.
Print Garbled.	Low Battery	Check and recharge battery.
	Improper Interface configuration	Verify printer and host settings match.
	Paper Door not fully closed	Verify door is closed.
Printer will not print.	Low Battery	Check and recharge battery.
	Paper not loaded correctly	Check paper path and reinstall paper (see " Quick Start Instructions ").
	Improper Interface configuration	Verify printer and host settings match. Print a self-test to verify printer settings and to verify printer is functioning properly.

D. 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 Customer Service at (800) 368-4636 to obtain a Return Authorization Number. Printers without Return Authorization will not be accepted.

APPENDIX

A. Appendix A – FieldPro 530 Printer Specifications

Printing Specifications

Printing Method: Direct thermal.
Printing Resolution: 203 dpi (8 dots per mm).
Printing Speed: Up to 5 ips.
Printing Width: Up to 2.8 inches (72 mm).

Fonts/Characters/Bar Codes

Fonts: Virtually all TrueType fonts, from 6 cpi to 34 cpi depending on emulation chosen, plus scaling.
International Characters: Most common sets available.
Unicode support.
Bar Codes: Virtually all 1D and 2D codes supported, depending on emulation chosen.
Downloadable firmware, fonts, graphics, and logos.

Connectivity

Standard (All Units): USB 2.0 PNP.
Wireless Options:

- Bluetooth®
Complete Bluetooth® 4.0 Stack
Dual Mode with EDR
- Wi-Fi 802.11b/g/n compatible**

Universal Port: Data and power port – allows connection of external devices such as MCR, barcode scanners, biometrics, RFID.

Software

Drivers and Utilities: Drivers for XP, WIN 7, WIN 8.
Compatible with Windows CE/Pocket PC, Windows Mobile, Apple iOS, 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, and ESC POS. Firmware can be upgraded as new emulations become available.
Supports direct printing of Postscript, PDF, PBM, JPG, PNG, BMP, SVG, & TIFF files.

Print Media

Paper Type: Direct Thermal Roll.
Roll Size: Maximum roll diameter 2.0" (51 mm), roll widths up to 3.125" (80 mm).
Roll Capacity: Approx. 94' 28.6 m), creating 188 6" long receipts.
Core Size: 0.75" Recommended (19 mm).

Power Management

Battery: Rechargeable 3 cell Lithium Ion, (11.3 V, 2950 mAh, 33.2 Wh).
Endurance: Over 3,500 printed inches per charge.
Power Option: 100-240 VAC wall adapter, or 12-24 VDC in-vehicle adapter. When plugged in, the printer can be used while recharging the battery or can be run without the battery (print & charge adapter).

Physical Specifications

L x W x H: 6.1" x 4.6" x 2.7" (15.5 x 11.7 x 6.9 cm).
Weight: 24 ounces (.68 kg) with battery.

Environmental Specifications

Operating Temp: 0° to 122°F (-18° to 50°C).
Storage Temp: -4° to 140°F (-20° to 60°C).
Humidity: 10% to 90% RH (non-condensing).
Rated IP54 per IEC 529

Operator Controls and Indicators

3 LED indicators for general fault, power and battery status indication.
Buttons for power and paper feed.
Sensors for paper out, black mark detection, and door open. "Gas gauge" on battery door.

Memory Capacity

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

Durability and Reliability

Survives multiple 6-foot drops to concrete (each face) per IEC 68-2.
MTBF: 10,000 hours in normal use.

Regulatory Approvals

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

Warranty

2-year printer warranty on the entire printer—case and print head included.
1-year warranty on the battery.

Options and Accessories

- Universal Port, 3-Track Simultaneous Read MCR, barcode scanners, biometrics, RFID.
- AC Wall Adapter, 100 to 240 VAC
 - Print and charge version
 - Charge only version
- In-Vehicle Power Adapter, 12 to 24 VDC
- Shoulder Strap
- Data Cables; USB
- Spare Batteries in Multi-Packs
- Media in Case Quantities
- Popular Mounting Systems
 - In-Vehicle Systems
 - Cart Mounting Systems

B. Appendix B – FieldPro 530L Printer Specifications

Printing Specifications

Printing Method: Direct thermal.
Printing Resolution: 203 dpi (8 dots per mm).
Printing Speed: Up to 5 ips.
Printing Width: Up to 2.8 inches (72 mm).

Fonts/Characters/Bar Codes

Fonts: Virtually all TrueType fonts, from 6 cpi to 34 cpi depending on emulation chosen, plus scaling.
International Characters: Most common sets available.
Unicode support.
Bar Codes: Virtually all 1D and 2D codes supported, depending on emulation chosen.
Downloadable firmware, fonts, graphics, and logos.

Connectivity

Standard (All Units): USB 2.0 PNP.
Wireless Options:

Bluetooth®
Complete Bluetooth® 4.0 Stack
Dual Mode with EDR
Wi-Fi 802.11b/g/n compatible

Universal Port: Data and power port – allows connection of external devices such as MCR, barcode scanners, biometrics, RFID.

Software

Drivers and Utilities: Drivers for XP, WIN 7, WIN 8.
Compatible with Windows CE/Pocket PC, Windows Mobile, Apple iOS, 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, and ESC POS. Firmware can be upgraded as new emulations become available. Supports direct printing of Postscript, PDF, PBM, JPG, PNG, BMP, SVG, & TIFF files.

Print Media

Paper Type: Direct Thermal Roll.
Roll Size: Maximum roll diameter 2.625" (66.7 mm), roll widths up to 3.125" (80 mm).
Roll Capacity:
Label Media: Approx. 75' (23 m), creating 148 6" long receipts (with 5.5 mil thick media).
Receipt Media: Approx. 173' (52.6m), creating 346 6" long receipts.
Core Size: 0.75" Recommended (19 mm).

Power Management

Battery: Rechargeable 3 cell Lithium Ion, (11.3 V, 2950 mAh, 33.2 Wh).
Endurance: Over 3,500 printed inches per charge.
Power Option: 100-240 VAC wall adapter, or 12-24 VDC in-vehicle adapter. When plugged in, the printer can be used while recharging the battery or can be run without the battery (print & charge adapter).

Physical Specifications

L x W x H: 6.1" x 4.6" x 3.1" (15.5 x 11.7 x 7.9 cm).
Weight: 24 ounces (.68 kg) with battery.

Environmental Specifications

Operating Temp: 0° to 122°F (-18° to 50°C).
Storage Temp: -4° to 140°F (-20° to 60°C).
Humidity: 10% to 90% RH (non-condensing).
Rated IP54 per IEC 529

Operator Controls and Indicators

3 LED indicators for general fault, power and battery status indication. Buttons for power and paper feed. Sensors for paper out, black mark detection, and door open. "Gas gauge" on battery door.

Memory Capacity

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

Durability and Reliability

Survives multiple 6-foot drops to concrete (each face) per IEC 68-2. MTBF: 10,000 hours in normal use.

Regulatory Approvals

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

Warranty

2-year printer warranty on the entire printer—case and print head included. 1-year warranty on the battery.

Options and Accessories

- Universal Port, 3-Track Simultaneous Read MCR, barcode scanners, biometrics, RFID.
- AC Wall Adapter, 100 to 240 VAC
 - Print and charge version
 - Charge only version
- In-Vehicle Power Adapter, 12 to 24 VDC
- Shoulder Strap
- Data Cables; USB
- Spare Batteries in Multi-Packs
- Media in Case Quantities
- Popular Mounting Systems
 - In-Vehicle Systems
 - Cart Mounting Systems

C. Appendix C – Supplies and Accessories

Part #	ACCESSORIES
93181	AC Charge and Print Adapter
93443	In-Vehicle Adapter Cigarette plug 12V 5'
93764	Right Angle Power Connector
93232	USB 6' cable FP530/I80
91868	Shoulder Carrying strap FP530/FP541
93871	FP530 Carrying Case with Should Strap
93194	Spacer for 2" paper FP530

Part #	SUPPLIES
34020434	FP530, SE Battery (3 cell Li-ION; 33WH)
93853	FP530 Battery, SE 5-pack
93854	FP530 Battery, SE 10-pack
91393	Printhead Cleaning Pen (12/box)

D. Appendix D – Media

Part #	Grade	Type	Qty
93110	STANDARD	Receipt Paper, 3.125" W (94 Linear feet per roll)	50 ROLLS

E. Appendix E – Mounting Options

Part #	PRECONFIGURED KITS
93270	FieldPro 530 Round Base Mount with Bracket
93271	FieldPro 530 Magnetic Base Mount with Bracket
93272	FieldPro 530 Suction Base Mount with Bracket
93273	FieldPro 530 U-Bolt Mount with Bracket
93274	FieldPro 530 Round Base Mount with Long Arm Bracket
93275	FieldPro 530 Mounting Pole with Bracket

Part #	PRINTER ATTACHMENTS
93116	FieldPro 530 Direct Mount Plate *

*For direct mounting. Not compatible with connecting arms or bases.

Please contact your Printek sales representative for price and availability.

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.
baud rate	The rate at which characters are transmitted over a serial interface. This is also often referred to as bits per second.
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.
cpi	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.
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.
TCP	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.
USB	Universal Serial Bus.
WAN	Wide Area Network. Refers to connections that allow one LAN to communicate with another LAN(s).
WEP	Wired Equivalent Privacy. A security protocol for wireless LANs designed to provide data security similar to a wired LAN.
Wi-Fi	Refers to any of the IEEE 802.11 standards.
WLAN	Wireless Local Area Network. A LAN made up of wireless nodes.

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