FieldPro 530 Series

Operator's Manual



Printek, LLC 1517 Townline Road Benton Harbor, MI 49022 269-925-3200 www.printek.com

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

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 equipment is in direct contact with the body of the user under normal operating conditions. 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, LLC 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

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.



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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

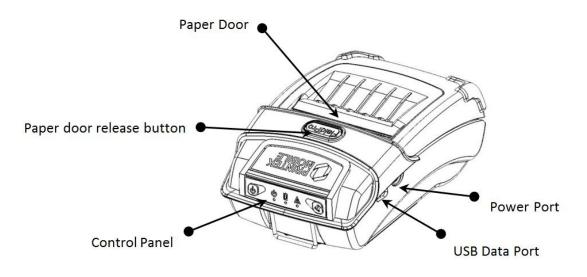
Thank you for purchasing the Printek FieldPro 530 Series mobile thermal printer also referred to in this manual as the "FP530" or "FP530L". The FP530 series prints on special thermal media supplied in roll form up to 3.125 inches wide. All models are equipped with a USB port which supports cabled communications.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

Printek recommends using genuine Printek supplied media and accessories. For detailed lists and contact information, please see <u>Appendix B – Supplies and Accessories</u> & <u>Appendix C – Media</u>.

Printer Features

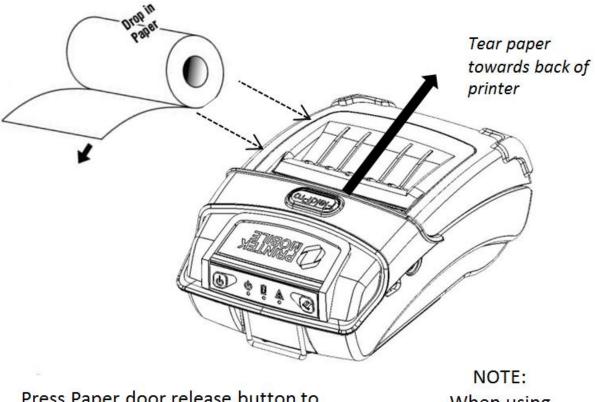


Your FieldPro 530 features:

- 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

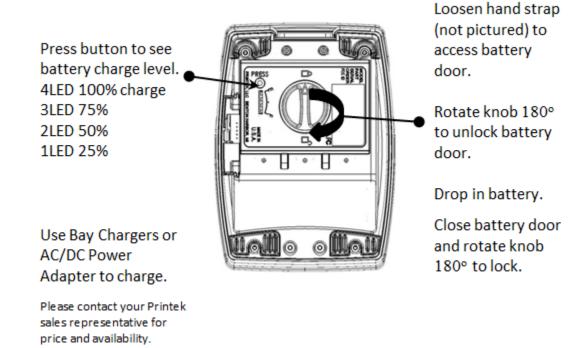
For detailed specifications reference <u>Appendix A – FieldPro 530 Printer Specifications</u> and <u>Appendix</u> <u>B – FieldPro 530L Specifications</u>.

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

B. Battery Installation



C. Charge Battery

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

D. Power On

5

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	On	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		Charging Battery
	Flashing		Battery Low

F. Performing a Printer Self-Test



6

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

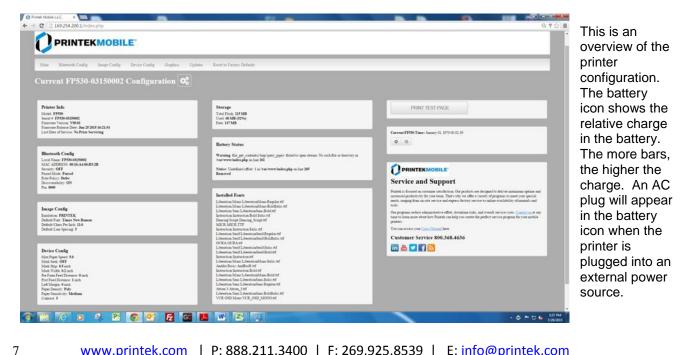
Configuration

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. To access the FP530 web page, push the Power button twice rapidly. This will put the printer into Configuration mode.
- 3. When the printer is in Configuration mode the POWER and FAULT LEDs will flash together.
- 4. Connect a USB cable between the printer and a PC.
 - a. Open browser on your host and type **169.254.200.1** into the address bar of the browser (Note: Firefox or Chrome will work best) and hit Enter.
 - b. A login box should appear.

FP530 Configuration Interfac	e
Password:	
Login	
	www.printek.com

- c. Type "0000" and hit Enter- you should now be at the home page for FP530 Configuration.
- 5. The main configuration screen of the FP530:



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.

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Bluetooth Config 🗬	
Local Name: FP5040150002	
MAC ADDRESS 00:16:A4:06:B3:28 Security	
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Bluetooth Config:

Security:

Possible values: Off*, On

Setting Security to ON forces the printer and the remote device to use Paring. Setting Security ON requires that Pairing is set to Paired and that a PIN has been entered that matches the PIN in the remote device.

Paired Mode:

Possible values: UnPaired, Paired*

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

Role Policy:

Possible Values: Defer*, Master

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

If the device attempting to communicate with the printer is having trouble discovering the printer, setting the value to Master may correct the problem.

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.

WI-FI Config:

Current Printer Config

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.

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 Access Point –The printer will broadcast itself as a network connection. The SSID will be the serial number of the printer.

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

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

Add Personal Network

Add the SSID of an ad-hoc network connection. If authentication is used select the authentication type and the password for the network connection.

Add Enterprise Network

Add the SSID of the enterprise network connection. If authentication is used select the authentication type and the password for the network connection.

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.

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Image Config 🛱	C		
Current Employing	PRINTEK •		
Default Fout	Times New Roman times ttl 🔹		
Definit Chars Per Inch	11.0 range is 3.0 - 30.0 incrementing 0.1		
Definit Line Spacing	5 •		
Default Characters Per Inch	0 •		
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Current Emulation:

Possible Values: PRINTEK*, MT3, CPCL, IMAGE, PDF, POSTSCRIPT

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.

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

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.

Default Font:

The FP530 has the ability to use True Type Fonts. All True Type Fonts loaded into printer memory are listed here. 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.

Default Text Line Spacing:

NOTE: This setting only functions in Printek Emulation

This setting determines 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.

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C 169.254.200.1/deviced	onfig.php		Q 1
	BILE		
Main Bluetooth Config Image Co	nfig Device Config Graphics Updates Reset to Factory Defaults		
Device Config 🛱			
Form 🗓			
Inits inches mm			
Max Paper Speed	5.0 v ips		
Mark Seeking	· Off Front Rear Gap		
Front Paper Sensor Threshold	75 ** range 0-100%		
Rear Paper Sensor Threshold	75 % range 0-100%		
Gap Paper Sensor Threshold	75 % range 0-100%		
Pre Form Feed Dutance	0 inch		
Post Form Feed Distance	1 inch		
Mark Skip	0.5 mch		
Mark Width	0.2 inch		
Left Margin	0 inch		
Paper Density	Poy •		
Paper Semiltrity	Medum •		
Contrast 🗰			
Contrast	CONTRAST		
Paper Energy Values:			
Locked	Energy 0.2998 TC+25 0.003666 TC-25 0.003666		
8 6			
Submit Changes Discard Changes			
bicad charges			

Units

Select between inches or millimeters. Default setting is inches.

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 jam errors.

Mark Seeking

Possible values: Off, Front, Rear, Gap. Default= Off (Note: Rear and Gap apply to 530L models only) Set the value when using regular or label media with appropriate characteristics. To align the printed image to the media, the printer will use the indicator according to the user choice here.

Front Paper Sensor Threshold

Possible values 0-100%. Default value is 75% When using paper with a black on the front adjust this setting to insure the paper stops at the black mark.

- If the printer is not detecting black marks reliably, set the Mark Sensitivity to a lower value.
- If the printer is detecting false check paper conditions, set the Mark Sensitivity to a higher value.
- If the printer is detecting black marks where none exist, set the Mark Sensitivity to a higher value.

Rear Paper Sensor Threshold (FP530L models only)

Possible values 0-100%. Default value is 75%

When using paper with a Black on the back adjust this setting to ensure the paper stops at the Black Mark.

- If the printer is not detecting Black Marks reliably, set the Mark Sensitivity to a lower value.
- If the printer is detecting false Check Paper conditions, set the Mark Sensitivity to a higher value.
- If the printer is detecting Black Marks where none exist, set the Mark Sensitivity to a higher value.

Gap Paper Sensor Threshold (FP530L models only)

Possible values 0-100%. Default value is 75%

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

- If the printer is not detecting gaps between labels reliably, set the Gap Sensitivity to a higher value.
- If the printer is detecting gaps where none exist, set the Gap Sensitivity to a lower value.

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. 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.

D. 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).

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Main Bluetooth Config Image Config Device Config Graphics Updates Reset to Factory	Defaults		
Graphics ≓			
Upload Logo 🗘			
Choose File No file chosen			
See Wilds. Fut Worth V See Index 0 V			
Upload Logo			
Remove Logo File 💿			
= Select = V Remove Logo			
Current Logo Mapping 🚓			
Logo Name Index Imag	v (not actual size)	Size	
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Upload File

Select the graphics file to load into printer memory.

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.

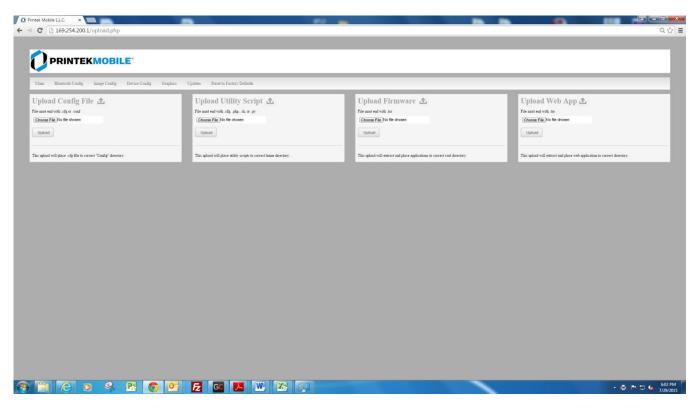
When selecting header, the graphics file will automatically print the logo at the beginning of each print job. When selecting footer, the graphics file will automatically print the logo at the end of each print job.

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.

E. Update Printer Firmware, Upload Files to Printer Memory



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

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	NTEKMOBI	LE'					
Main Blueto	oth Config Image Config	Device Config Graphic	s Updates Reset to Factory D	efaults			
Printer 1	o Factory Defaults						
Device Config	To Factory Defaults						
Image Config	To Factory Defaults						
Bluetooth Confi	To Factory Defaults						
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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 <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 FP530 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) 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-XXXxxxx", where XXXxxxx = the Printer Serial Number.
- c) For Pairing, the default passkey is "0000".

<u>Note</u>: Bluetooth host devices pair after discovery, but only <u>*connect*</u> 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".
- 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.

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-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.

D. 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 D</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 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 0.25" Black Mark should span width of paper for best results.

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. 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.

<u>Caution</u>: 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 will turn off after a short time.

- 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 <u>Troubleshooting</u> section for possible causes and solutions.

<u>Note</u>: 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 <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 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, With Alarm	Paper Out	Install paper and press the Paper Feed Button to clear the error.
Flashes, No Alarm	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	Communications error	Verify communications settings in the Interface Menu. 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	Battery already fully charged	No action required.
light or does not stay lit when power adapter is connected.	Power supply not receiving power	Check building/vehicle circuit breakers/fuses.

Problem	Possible Cause	Solution
	Faulty power adapter	Check output of power adapter with voltmeter. Should be 19 VDC.
	Battery not installed properly	Remove and reinstall battery making sure the battery is seated with door closed.
Battery not charging.	Faulty power adapter or battery	Try new power adapter, or replace battery.
Poor print quality.	Low battery	Check and recharge battery.
	Print head dirty	Clean print head. Refer to " <u>Maintenance</u> " 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 " <u>Quick</u> <u>Start Instructions</u> ").
	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 " <u>Maintenance</u> " 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 Serial 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 " <u>Quick</u> <u>Start Instructions</u> ").
	Improper Serial Interface configuration	Verify printer and host settings match. Print a self- test to verify printer settings and to verify printer is functioning properly.

Problem	Possible Cause	Solution
Cannot print via optional interface.	Interface not configured correctly	Print a self-test to verify printer settings. Make sure printer and host set ups match.

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.

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, Extech, IPL, 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 lon, (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 Ŵ 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 (noncondensing). 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
 O 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. Extech. IPL. 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 (noncondensing). 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 0 Charge only version 0
- 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 0 Cart Mounting Systems 0

C. Appendix C – Supplies and Accessories

Part #	ACCESSORIES
93181	AC Charge & Print Adapter - North America, 100-240VAC 50/60Hz
93180	AC Charging Adapter - North America, 100-240VAC 50/60Hz
93179	In-Vehicle Adapter
93076	In-Vehicle Adapter - 6' Unterminated
93077	In-Vehicle Adapter - 15' Unterminated
93178	USB Cable, 6 Ft.
91868	Shoulder Carrying Strap
93176	FP530 Battery Charger 1 bay
93177	FP530 Battery Charger 2 bay
93194	Spacer for 2" paper FP530
Part #	SUPPLIES
02104	

93104	FP530 Battery (3 cell Li-ION; 33WH)
93124	FP530 Battery, 5-Pack
93106	FP530 Battery, 20-Pack
91393	Thermal Printhead Cleaning Pen (12/box)

D. Appendix D – Media

Part #	Grade	Туре	Qty
93120	STANDARD	Receipt Paper, 2.26" W (94 Linear feet per roll)	36 ROLLS
93110	STANDARD	Receipt Paper, 3.125" W (94 Linear feet per roll)	36 ROLLS
93121	PREMIUM	Premium Receipt Paper,2.26" W (70 Linear feet per roll)	36 ROLLS
93111	PREMIUM	Premium Receipt Paper, 3.125" W (70 Linear feet per roll)	36 ROLLS

E. Appendix E – Mounting Options

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 #	PRECONFIGURED KITS
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93273 FieldPro 530 U-Bolt Mount with Bracket 93274 FieldPro 530 Round Base Mount with Long Arm Bracket	93271	FieldPro 530 Magnetic Base Mount with Bracket
93274 FieldPro 530 Round Base Mount with Long Arm Bracket	93272	FieldPro 530 Suction Base Mount with Bracket
	93273	FieldPro 530 U-Bolt Mount with Bracket
93275 FieldPro 530 Mounting Pole with Bracket	93274	FieldPro 530 Round Base Mount with Long Arm Bracket
35275 Ticidi to 556 Mounting Tole with Bracket	93275	FieldPro 530 Mounting Pole with Bracket

Part # PRINTER ATTACHMENTS

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93116	FieldPro 530 Direct Mount Plate *
93117	FieldPro 530 Printer Plate With Ball

*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.
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.
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.
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.
WLAN	Wireless Local Area Network. A LAN made up of wireless nodes.

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