DP-581H Series

Operator's Manual

DASCOM®

DP-581H DP-581T Thermal Printer



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

Conformity with the above mentioned Directives is indicated by the CE symbol attached to the device.

Note: Conformity may be affected by:

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



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

- Die Konformität zu den oben angeführten Richtlinien ist durch das am Gerät angebrachte CE-Zeichen gekennzeichnet.
- Hinweis: Die Konformität kann beeinflusst werden durch:
- Benutzung von nicht spezifizierten Schnittstellen
- Nichtbeachtung wichtiger Hinweise der Bedienungsanleitung
- Ersetzen von Bauteilen, die nicht vom Hersteller für dieses Gerät freigegeben wurden
- Eingriffe durch Unbefugte

FCC Part 15 Class B

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

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

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

This equipment complies with Canadian and FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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 Dascom 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 disposes of used batteries according instructions and/or your local regulations.

Acknowledgments:

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Wi-Fi is a registered trademark of the Wi-Fi Alliance Windows is a registered trademark of Microsoft Corporation All other trademarks are the property of their respective owners.

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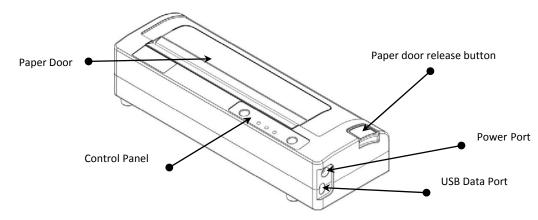
Introduction

Thank you for purchasing the DP-581H Series mobile thermal printer also referred to in this manual as the "DP-581H". The DP-581H series prints on special thermal media supplied in roll form up to 8 inches wide. All models are equipped with a USB port which supports cabled communications. All models support an optional internal Bluetooth or Wi-Fi interface. Complete specifications may be found in <u>Appendix A – DP-581H Printer Specifications</u>.

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

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

Printer Features

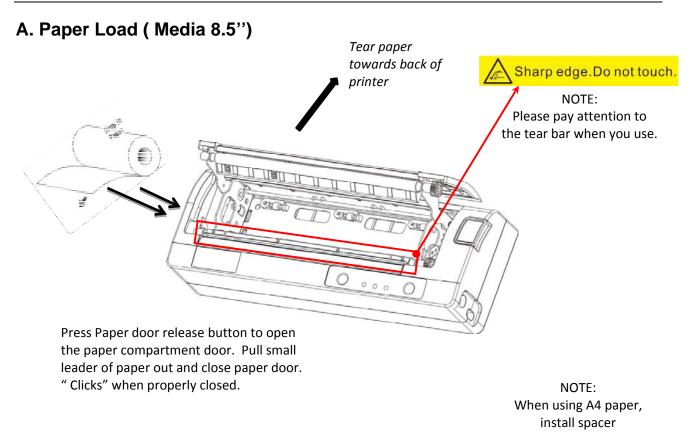


Your DP-581H features:

- Easy-to-read control face and simple drop-in paper loading
- Quickly prints a wide variety of tickets, and receipts.
- Extensive fonts, character sets, bar codes and graphic capabilities
- Printing speed up to 11 pages per minute.
- Printer configuration is quick and easy with a web based interface
- The latest in battery technology provides for full-shift printing in all modes
- Compatible with Windows, and Android
- Emulations that allow the printer to be a drop-in replacement for nearly any mobile printer

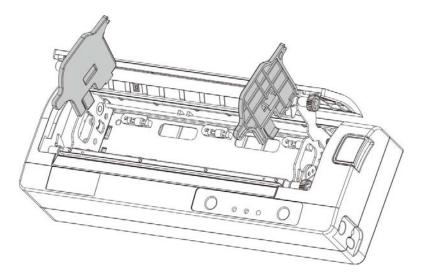
For detailed specifications reference <u>Appendix A – DP-581H Printer Specifications</u>.

Quick Start Instructions



Media 8"

Before loading 8 inch media, users could install a pair of spacers into the compartment so as to secure the media.



B. Battery Installation

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

Remove the two screw and remove the battery.

Disposal

Please dispose the batteries separately and free of cost at your sales agency or the designated local collecting points.

Therefore please consider the national recycling standards!

Disassembly and removal of the batteries are described in the User Guide.

C. Charge Battery

Uncover the printer ports and plug in your AC power adapter to the Power port (must be a Dascomsupplied accessory). The yellow LED will show solid ON while the printer battery is charging. NOTE: Charge via USB is not supported, please do not charge via the USB-C port.

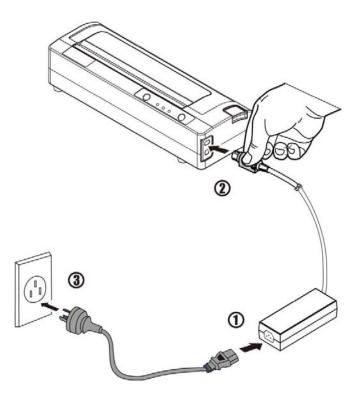
D. Power On

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

When battery volume goes below 5%, the printer will shut down itself. When it's below 10%, it will flash yello LED as an alarm of low battery.

E. Power supply connection

Connect the power supply cable with the adapter, refer to ①. Connect the adapter and printer, refer to ②. Finally, connect the cable plug to the power supply, refer to ③.



Please strictly follow up the above steps, otherwise, the printer will break down.

F. 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 / Paper End
Flashing	Off	Off	Job is arriving
Flashing	Off	Off	Job is printing
Flashing	Off	Flashing	IP over USB active
	On		Charging Battery
	Flashing		Battery Low
Flashing	Flashing	Flashing	Restart the printer manually
Off	Off	Flashing	Restore the printer firmware
Off	Off	On	Print head too hot

G. Performing a Printer Self-Test



Before you connect the printer to the computer, make sure that the printer is in proper working order. You can do this by printing a configuration status label.

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

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

H. Restore the Printer Firmware

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

① You had better use external battery.

② Turn on the printer by holding both the feeding button and power button for five

seconds.

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

④ You could upgrade the firmware via the web.

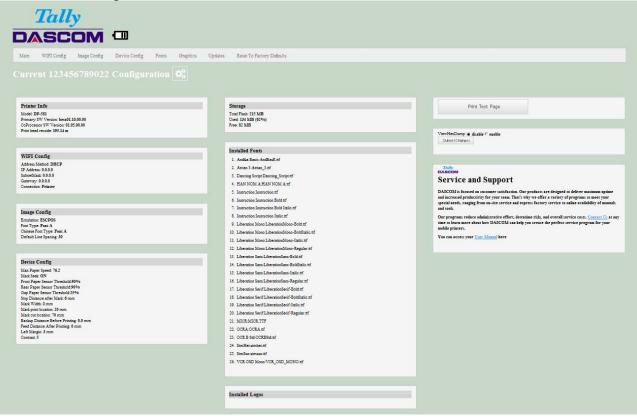
Configuration

Configuration of the DP-581H 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 DP-581H communication capabilities.

- 1. Turn the printer ON.
- 2. Connect a USB cable between the printer and a PC.
- 3. To access the DP-581H web page, push the Power button twice rapidly. This will put the printer into Configuration mode.
- 4. When the printer is in Configuration mode the POWER and FAULT LEDs will flash together.
 - a. Open browser on your PC and type <u>169.254.200.1</u> into the address bar of the browser and hit Enter A login box should appear:

DP-581H Configuration Interface					
Password:					
Login					
English •					
	www.dascom.com				

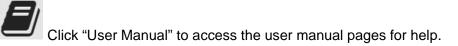
b. Type "0000" or "0581" and hit Enter- you should now be at the home page for DP-581H Configuration. Two passwords correspond to two modes: User mode and service mode. In User mode, the web configuration function is intuitive. In service mode, the web configuration is comprehensive. (the following is an example of service mode). 5. The main configuration screen of the DP-581H:



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.



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.

WI-FI Config:

<i>Tall</i> DASC	y OM	-				
Main WIFI Config	Image Config	Device Config	Fonts	Graphics	Updates	Reset To Factory Defaults
Wireless Configuration	a 🔎			C Static © DHCP C Access Point		
Wifi Port				8023		
vote: Submit Changes will I Submit Changes Discard	orce restart. I Changes					

Wireless Configuration

This will display the current Wi-Fi configuration:

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 - 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 Wi-Fi mode.

		Status			IP A	ddress	
		SCANNING					
w details hide details							
iouslyConnectedNet Network ID	works 🚮	SSID	BSSID	Status	Connect/Disconnect		Remove
0		Testing	any	Status	Connect		Remove
						1	
BSSID	Frequency	Signal Level	ř	Flag	•	SSID	Add/Connec
74:a5:28:0e:1a:de	2437	193		[WPA2-PSK-C		66	Add/Connec
00:36:76:1b:49:ec	2462	186		[WPA-PSK-CCMP][WPA	TEST	Add/Connec	
00:36:76:19:c0:b8	2462	189	IWPA-PSK-CCMPIIWPA2-PSK-CCMPIIESS1			cannary	Add/Connec
6c:19:8f:c4:68:54	2427	199	[WPA-PSK-TKIP+CCMP][WPA2-PSK-TKIP+CCMP][WPS][ESS]			jishu	Add/Connec
c0:a0:bb:c5:a3:78	2412	200	[WPA-PSK-TKIP+CCMP][WPA2-PSK-TKIP+CCMP][ESS]			TP-LINK-I	Add/Connec
f0:b4:29:37:d3:c5	2412	186	[WPA2-PSK-CCMP][ESS]				Add/Connec
24:05:0f:88:9c:b4	2412	182	[WPA-PSK-CCMP][WPA2-PSK-CCMP][ESS]				Add/Connec
64:09:80:0d:91:bb	2412	193		[WPA2-PSK-C	CMP][ESS]	MH	Add/Connec
00:36:76:3f:57:cf	2437	181		[WPA-PSK-CCMP][WPA	A2-PSK-CCMP][ESS]	R600	Add/Connec
00:36:76:54:ff:7f	2412	183	[WPA-PSK-CCMP][WPA2-PSK-CCMP][ESS]				Add/Connect
18:59:36:7e:59:16	2437	183	[WPA2-PSK-TKIP][ESS]			HM NOTE 1LTE	Add/Connect
58:69:6c:45:07:98	2462	171	[WPA2-PSK-TKIP+CCMP][ESS]			Dascom111	Add/Connect
5a:69:6c:44:07:98	2462	168		[WPA2-PSK-TKIP	+CCMP][ESS]	Dascom333	Add/Connect
bc:46:99:0d:8a:88	2437	172		[WPA-PSK-CCMP][WPA	2-PSK-CCMPI/ESSI	csim-citizen	Add/Connect

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.

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.

		Status SCANNING			IP	Address	
v details hide details							
Network ID		SSID	BSSID	Status	Connect/Disconnec	t	Remove
0		Testing	any		Connect		Remove
BSSID	Frequency	Signal Level	ľ	Flags		SSID	Add/Connect
74:a5:28:0e:1a:de	2437	204		[WPA2-PSK-CCMP][E	ss]	66	Add/Connect
00:36:76:1b:49:ec	2462	195		[WPA-PSK-CCMP][WPA2-PSK-	COMPHESSI	TEST	Add/Connect
00:36:76:19:c0:b8	2462	189		[WPA-PSK-CCMP][WPA2-	Password:	cannary	Add/Connect
6c:19:8f:c4:68:54	2427	195	[WP	PA-PSK-TKIP+CCMP][WPA2-PSI		jishu	Add/Connect
:0:a0:bb:c5:a3:78	2412	190	I	[WPA-PSK-TKIP+CCMP][WPA2- Connect		TP-LINK-I	Add/Connect
0:b4:29:37:d3:c5	2412	196		[WPA2-PSK-CCNir][E55]			Add/Connect
24:05:0f:88:9c:b4	2412	186		[WPA-PSK-CCMP][WPA2-PSK-CCMP][ESS]			Add/Connect
i4:09:80:0d:91:bb	2412	188		[WPA2-PSK-CCMP][E	SS]	MH	Add/Connect
00:36:76:3f:57:cf	2437	179		[WPA-PSK-CCMP][WPA2-PSK-	CCMP][ESS]	R600	Add/Connect
00:36:76:54:ff:7f	2412	174		[WPA-PSK-CCMP][WPA2-PSK-	CCMP][ESS]		Add/Connect
L8:59:36:7e:59:16	2437	176	[WPA2-PSK-TKIP][ESS]			HM NOTE 1LTE	Add/Connect
58:69:6c:45:07:98	2462	171	[WPA2-PSK-TKIP+CCMP][ESS]			Dascom111	Add/Connect
5a:69:6c:44:07:98	2462	166	[WPA2-PSK-TKIP+CCMP][ESS]			Dascom333	Add/Connect
oc:46:99:0d:8a:88	2437	173		[WPA-PSK-CCMP][WPA2-PSK-	CCMPITESSI	csim-citizen	Add/Connect

WPA-EAP or IEEE8021X

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

		Filename:
Add Personal Network	Add Enterprise Network	Browse
SSID	SSID	
		Upload
Password	Password	
Authentication	Authentication	
No Authentication WPA-Personal(PSK) WPA2-Personal(PSK) Static WEP(no authentication) *	Static WEP(Shared Key) IEEE 802.1X WPA-Enterprise(EAP) WPA2-Enterprise(EAP)	
Encryption TKIP	Encryption TKIP 💌	
Submit	Identity	

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.

Tal DASC	
Main WIFI Confi	g Image Config Device Config Fonts Graphics Updates Reset To Factory Defaults
Image Confi Encoding	g ⊄‡ • GB18030 ⊂ UNICODE ⊂ UTF-8
Current Emulation	ESCPOS 📼
Font Type	Font A 💌 Font A: 12*24 Font B: 9*17
Letter Shape	Art Stv -
Digit Shape	Normal 💌
Chinese Font Type	Font A 💌 Font A: 24*24 Font B: 32*32
Character Type	Chinese Charact
Default Line Spacing	30 Unitpoint
Submit Changes Disc	ard Changes

Current Emulation:

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

The DP-581H 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 DP-581H to print many other file formats directly, without the need for a driver.

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

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

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

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

Default Font:

The DP-581H has the ability to use True Type Fonts. All True Type Fonts loaded into printer memory are listed here. When using emulations that do not specify the font for each line of text, select the font you would like to use as the default font. All print jobs will use the default font unless a command is sent to the printer to use another font.

Chars Per Inch and Default Text Line Spacing:

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

C. Device Config

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

77 11		
Tally		
DASCON		
Main Bluetooth Config	Image Config	Device Config Fonts Graphics Updates Reset To F
	00	
Units		5m -
Max Paper Speed Mark Seek		76.2 ★ mm per sec. • RollPaper ○ BlackMarkPaper ○ CutSheetPaper
Front Paper Sensor Threshold		90 ; % range 0-100%
Backup Distance Before Printing		0 ; mm
Feed Distance After Printing		40 ; mm
Left Margin		0 0 mm
Contrast Power Sleep		5 <u>1</u> -10 Disabled • min(s)
Paper Sensitivity #		
Thermal paper settings:		
Locked	Thermal paper type:	7 •
â <i>a</i>		
Submit Changes Discard Changes		

Units

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

Max Paper Speed

Possible values: 25.4 to 76.2 mm, Default = 76.2 When using labels or heavy paper stock, you may need to decrease the paper speed to prevent paper jams.

Mark Seeking

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

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

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

Paper Sensor Threshold

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

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

Backup Distance Before Printing

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

Feed Distance After Printing

Used with Mark Seek. User defined.

Mark Seek Distance

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

Stop Distance After Mark

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

Mark Width

Use with Mark Seeking. User defined.

Left Margin

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

Contrast

Possible values 0 - 10. Default value is 5 The lower the value the lighter the print. The higher the value the darker the print.

Thermal Paper Type

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.

NO.	Standard printing energy (mJ)	Less than 25~C	25~C or higher
1	0.2998	0.003666	0.003666
2	0.3074	0.001384	0.003838
3	0.3126	0.000957	0.003835
4	0.3134	0.003714	0.00339
5	0.327	0.001291	0.003487
6	0.3458	0.005085	0.004132
7	0.3678	0.005231	0.005231
8	0.3689	0.004347	0.0049
9	0.3696	0.000932	0.004887
10	0.3725	0.00219	0.004733
11	0.3821	0.002577	0.004581
12	0.3901	0.002321	0.004551
13	0.3972	0.002115	0.004878
14	0.4009	0.005592	0.005199
15	0.4087	0.004228	0.004899
16	0.4235	0.001842	0.005624
17	0.4848	0.00296	0.004133
18	0.5687	0.002823	0.006054

Power sleep

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

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

D. Fonts

Jain WIFI Config Image Config Device Co	nfig Fonts Graphics Updates	Reset To Factory Default	IS
onts 🔁	Current Font Mapp		
Upload Font File 土	Font Family Name	Index	Indicator(System default fonts, which cannot be removed.)
Browse	SimHei	A	
	Andika Basic	В	.*
Upload	Liberation Mono	С	
Remove Font File 🗯	MICR	D	
Select 💌	Instruction	E	*
	Liberation Sans	F	
Remove	OCRA	G	*
	SimSun	Н	*
	HAN NOM A	I	
	Liberation Serif	J	*
	VCR OSD Mono	ĸ	•
	Dancing Script	L	*
	Atrian 3	М	*
	OCR B Std	N	

Upload Font File Truetype Fonts (.ttf, .otf, .ttc and .bdf) can be uploaded here. Languages like ZPL and CPCL can use the fonts by referring to them by their Font Family Name.

E. Image Config

User Define ESCPOS fonts

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

Tal DASC	ly COM					
Main WIFI Config	Image Config	Device Config	Fonts	Graphics	Updates	Reset To Factory Defaults
Image Config Encoding	GB18030 C UNICO	DE C UTF-8				
Current Emulation	ESCPOS 💌					
Font Type	Font A 💽 Font A:	12*24 Font B: 9*17				
Font Type Letter Shape	Font A Font A:	12*24 Font B: 9*17				
	TORIA E	12*24 Font B: 9*17				
Letter Shape	Art Stv	12*24 Font B: 9*17 24*24 Font B: 32*32				
Letter Shape Digit Shape	Art Stv					

User Define Western Fonts

Font A:

Font A: Letters and numbers print in FontA by default. The parameter of FontA is 12 * 24. For letters you could

choose among three types of typeface: art font, Song, equal-line face.

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

Letters					
Art Font	ABCDEFghijk				
Song	ABCDEFghijk				
Equal-line face	ABCDEFghijk				
	Numbers				
Normal	1234567890				
Bank	1234567890				
OKI number	1234567890				

Font B: Letters and numbers print in FontB by default. The parameter of FontA is 9 * 17. Use system default

font and cannot be changed. Printout:

fontA: ABCDEFghijk

fontB: ABCDEFghijk 1234567890

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

eg:

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

ABCDEfghijk 1234567890

User Define Chinese Fonts

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

中文字体 FontA

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

中文字体 FontB

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

User-defined size: 9 pounds Western Font File: STHUPO.TTF 自定义中文字体

User Define PRINTEK Fonts

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

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

Liberation Mono:LiberationMono-Regular.ttf:

 1B
 40
 2F
 2A
 2D
 30
 31
 32

 33
 34
 35
 36
 37
 38
 39
 3B

 3A
 3C
 3D
 3E
 3F
 40
 41
 42

 43
 44
 45
 46
 47
 48
 49
 4A
 4B

 4C
 4D
 4E
 4F
 50
 51
 52
 53
 54

Printout:

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

55 56 57 58 59 5A OD OA

OCRA:OCRA.ttf: 1B 40 2F 2A 2D 30 31 32 33 34 35 36 37 38 39 3B 3A 3C 3D 3E 3F 40 41 42 43 44 45 46 47 48 49 4A 4B 4C 4D 4E 4F 50 51 52 53 54 55 56 57 58 59 5A 0D 0A

Printout:

@/*-O123456789;:<=>?@ABCDEFGHIJKLMNOP@RSTUVWXYZ

User Define ZPL Fonts

- (1) Use CW command to define font.
- (2) CW command: CW {font mark},R:{font file name} eg: CWL,R:simsun.ttf
- (3) CW command set font valid before printer restart.
- (4) User-defined font sample:

eg1:

^XA ^CWL,R:simsun.ttf ^FO10,10 ^ALN,70,30 ^FDABCD123^FS ^XZ

eg2:

^XA ^CWL,R:simhei.ttf ^FO10,10 ^ALN,70,30 ^FDABCD123^FS ^XZ Printout:

ABCD123

Printout:

ABCD123

User Define CPCLFonts

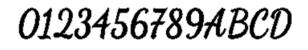
(1) Use TEXT command to define font.

(2) TEXT command:

- - eg: TEXT 1 1 20 5 0123456789ABCDEFG

Sample:

eg1: Printout: ! 0 200 200 300 1 TEXT 1 1 20 5 0123456789ABCDEFG CENTER PRINT



eg2: Printout: ! 0 200 200 300 1 TEXT 5 1 20 5 0123456789 ABCDEFG CENTER PRINT

0123456789ABCD

F. Graphics

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

	<i>Tall</i> SC	y OM	-				
	WIFI Config	Image Config	Device Config	Fonts Graphics	Updates Reset To Factory	Defaults	
Graph	ics ≓			nt Logo Map	ping 🚠		
File must e	Upload Logo end with .png .jpg .jp	Browse	Note: may nee		mapping after upload or removal.		
	Set Width Full W Set Index 0	idth 💌	_				
	Upload Logo	5					
	Select 💌 Ren	File 🙁					

Upload File

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

Set Width

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

Set index

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

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

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

Current Logo Mapping

Once uploaded into the printer memory, your image and settings will be displayed here. Logo upload procedure: 1. Choose logo file, 2. Set the width, 3. choose the index. 4. Upload it Delete logo procedure: 1. Choose logo 2. Delete it.

20

G. Update Printer Firmware, Upload Files to Printer Memory

Tally			
DASCO			
Main WIFI Config Image C		Graphics Updates Reset To	o Factory Defaults
Upload Config File 🏦	Upload Utility Script 🏦	Upload Firmware 🏦	Upload Web App 🏦
File must end with .cfg or .conf	File must end with .php, .sh, or .py	File must end with .tar .gz .sw .fw	File must end with .tar.gz
Browse	Browse	Browse	Browse
Upload	Upload	Upload	Upload
This upload will place .cfg file to correct Config directory.	This upload will place utility scripts to correct home directory.	This upload will extract and place applications to correct root directory.	This upload will extract and place web application to correct directory.

Procedure:

1. Enter the config page

2. Click Updates.

3. Choose Upload Firmware, choose file and click Upload.

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

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

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

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

D/	Tall \SC	y OM	-				
Main	WIFI Config	Image Config	Device Config	Fonts	Graphics	Updates	Reset To Factory Defaults
				Prir	nter To Fac	ory Defaults	s
				Device	Config To I	Factory Defa	aults
				Image	Config To F	actory Defa	aults
				Network	k Config To	Factory Def	faults
					•		

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

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

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

Network Config to Factory Defaults: WiFi settings can be restored to factory configurations.

Note that WIFI network configurations will be lost when Network Config to Factory Defaults is checked.

There are two fundamental printing modes with mobile printers.

A. ASCII Based Print Jobs

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

The DP-581H 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 DP-581H 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.

Integrating the Printer into your Business Applications Step by Step – Creating a Link from Host to Printer

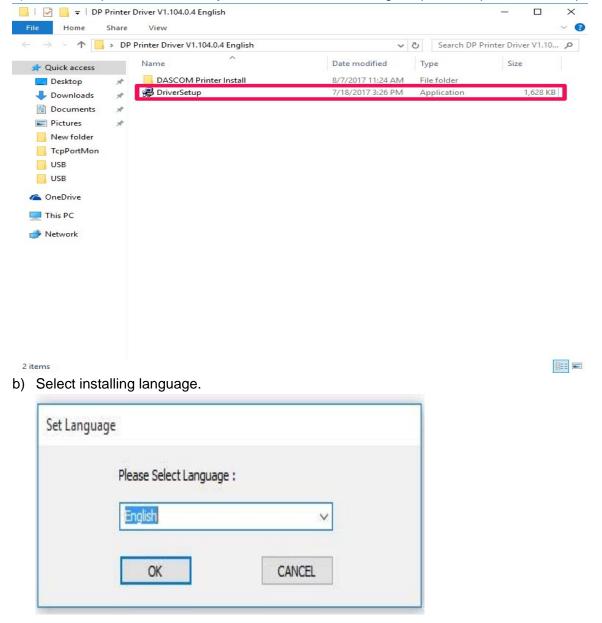
A. Windows Desktop Computers

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. Open DriverSetup.exe.



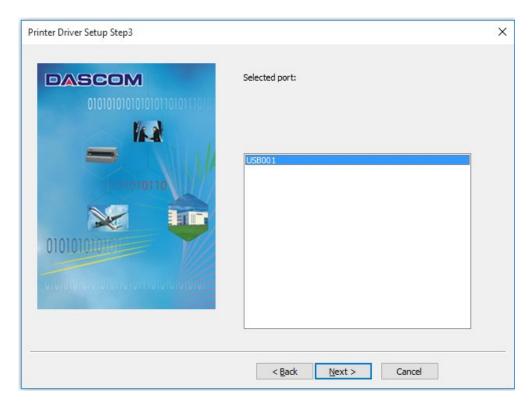
c) In the popup window, select Next to proceed. It pops out the tab 'Please select installation method'. Click OK for automatic installation; click Cancel for manual installation.

	Welcome to the Dascom Europe GmbH Printer Driver Setup Wizard. It can capture the available printer ports on your system. During installation, you can select whether to set the printer as the default one. You can also select whether to print the Test Page after setup is completed.
Please select installation me	allation; click Cancel for manual installation.
	OK Cancel
	< Badc Next > Cancel

d) For automatic installation, the system chooses DASCOM DP-581H; for manual installation please choose DP-581H. Then click Next.

Printer Driver Setup Step2		×
	Selected printer:	
	DASCOM DP-581	8
	< Back Next > Cancel	

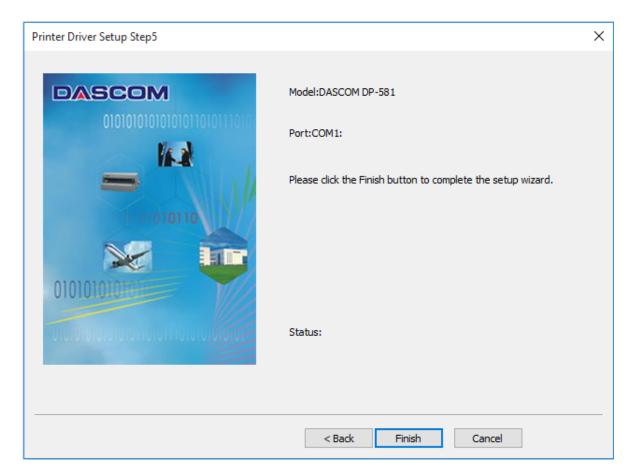
e) For automatic installation, the system chooses USB001 port; for manual installation please choose USB001. Then click Next.



f) Click Next to proceed.



g) Click Finish to proceed.



h) Click Install to proceed.

E Windows Security	×
Would you like to install this device software?	
Name: Dascom Corp. Printers Publisher: JIANGMEN DASCOM COMPUTER PERIPHERALS CO	
Always trust software from "JIANGMEN DASCOM COMPUTER PERIPHERALS CO".	stall Don't Install
You should only install driver software from publishers you trust. <u>How can I decide which devia</u> install?	<u>ce software is safe to</u>

i) Install successfully.

Printer Driver Setup Step5		×
DASCOM	Model:DASCOM DP-581	
01	Port:SHRFAX:	
OK The d	imes the setup wizard. Iriver has been installed successfully!	
010101010101	ОК	
	Status: Printer driver installation is complete.	
	< Back Finish Cancel	

Ethernet Drivers

a) Choose RNIDS driver file, click "Install.exe".

									23
 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	▶ DATA1(D:) ▶ 得实文件 ▶ 581 ▶	驱动安装照片 RNIDS_Inst	all 🕨		- ↓	搜索 RNIDS_Install	1		P
组织 ▼ 包含到库中、	▼ 共享 ▼ 新建文件夹								?
⊿☆ 收藏夹	名称	修改日期	类型	大小					
 CneDrive 下载 最近访问的位置 桌面 	🕌 Driver 🧭 Install.exe	2018/9/21 9:19 2018/3/5 11:08	文件夹 应用程序	1,752 KB					
▲ 篇 库 ● 圖 视频 ● 圖 图片 ● 配 文档 ● 副 迅雷下载 ● ● ● 音乐									
 ▶ ● ● ● 家庭组 ▲ :● 计算机 ▶ ● 本地磁盘 (C:) ▶ □ DATA1 (D:) 									
▷ 🗣 网络									
b) Click "N	ext",related files w	ill be installed	automat	ically.					
RNDISE	Driver Installer	Welcome to Installer This wizard wi for your RMDIS 要继续,请单击	ll help y device.	70u install					
			2 1 16					-	
		Ĺ	< 上一步(B)下一步Ø	0 >	取消			

c) After installation ,you will see the reminder as shown on the picture below.

RNDIS Driver Installer	
	Completing the Installation of the RNDIS Driver
	此计算机上成功地安装了此驱动程序。
	驱动程序名
	✓Acer Incorporated 设备已更新
	< 上一步 (B) 完成 取消

II. Wi-Fi

<u>Note</u>: 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 DP-581H 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 DP-581H Wi-Fi port number is internally set to 8023. Change the port number to 8023 in the Windows screen and click OK.
- I) Click "Apply" in the Printer Properties box.
- m) Your DP-581H 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. Wi-Fi

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

D. Apple[™] Tablets & Smartphones

I. Wi-Fi

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

Media

A. Standard Media

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

B. Black Mark Media Position

For automatic ticket printing, the Black Mark should be positioned as shown in the figure below. When using Mark Sensing mode (see <u>Configuration</u>, earlier in this document), FieldPro printers will 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 \checkmark ↑ 0.25" Black Mark should span width of paper for best results.

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.
 <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 581H 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 24 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 <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.dascom.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 Dascom.

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 Electrostatic discharge	Replace or recharge battery. 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.
	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.
Poor print quality.	Low battery	Check and recharge battery.

Problem	Possible Cause	Solution
	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 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 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 Dascom retailer to obtain a Return Authorization Number. Printers without Return Authorization will not be accepted.

APPENDIX

A. Appendix A – DP-581H Printer Specifications

Printing Specifications

Printing Method: Direct thermal. Printing Resolution: 203 dpi (8 dots per mm). Printing Speed: Up to 2 ips (11 pages per minute).

Printing Width: Up to 8.27" (210mm)

Fonts/Characters/Bar Codes

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

Downloadable firmware, fonts, graphics, and logos.

Connectivity

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

> Bluetooth® Complete Bluetooth® 2.0 Stack EDR Wi-Fi 802.11b/g/n compatible

Software

Drivers and Utilities: Drivers for XP, WIN 7, WIN 8, WIN 10. Print utilities and SDK's for Android. Native App and Web printing.

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

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

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

Print Media

Paper Type: Direct Thermal Roll, Fanfold and Cut sheet. Roll Size: Maximum roll diameter 2.125" (54 mm), roll widths from A4 to 8.5" (up to 216 mm).

Roll Capacity Load Media: Approx. 100' (30 m) Fanfold Size: Maximum width 216 mm, maximum length 305 mm, maximum total thickness 15 mm using fanfold tray. Core Size: 0.75" (19mm) Recommended.

Power Management

Battery: Rechargeable 6 cell Lithium Ion, (11.1 V, 6000 mAh, 66.6 Wh).

Endurance: Above 300 m printing per charge (@12.5% density).

Power Option: 100-240 VAC wall 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

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

Weight: 1.57 kg - without battery 1.92 kg - with battery

Environmental Specifications Operating Temp: -10° to 45°C (using

battery)

Storage Temp: -20° to 60°C

Humidity: 10% to 90% RH (non-condensing).

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

Durable PC-ABS case.

Print head life: min 50km @ 12.5% coverage

MTBF: 20,000 hours in normal use.

Regulatory Approvals

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

Warranty

Depends on local requirements. Please contact your national DASCOM sales office.

Accessories & Options

- Direct thermal roll, approx. 3m/roll (if shipped with printer)
- AC Wall Adapter, 100 to 240 VAC (with power cord)
- Print and charge versionBattery
- Data cable: USB (USB-A to USB-C)
- Shoulder strap
- A4 paper width spacer
- Fanfold tray
- Media in Case Quantities (Direct thermal roll, approx. 26m/roll)
 - Popular Mounting Systems
 - o In-Vehicle Systems
 - Cart Mounting Systems
 Fixed Mounting Systems

Glossary of Terms

802.11	Wireless networking communication standards created by IEEE.
Ad-Hoc	A Wi-Fi network consisting of only stations (no access point). Same as Peer-to-Peer.
authentication	The process a Wi-Fi station uses to identify itself to another station.
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.
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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