# PANTHERA WIDE DTF™ PRINTER SYSTEMS





## PANTHERA WIDE DTF™ PRINTER SYSTEM



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Model	Panthera						
Print Head	EPSON I3200-A1						
Resolution	2400DPI						
Speed	8pass: 6 m²/h 6pass: 8 m²/h						
Color Control	ICC color profile with adjust function						
Print Width	600 mm						
Ink	Pigment						
Operation Environment	18°C-28°C, 50%-70%Temperature 18° C-28°C, Humidity 50%-70%						
Power	50HZ/60HZ 220V 10A						
System	Windows7 or Above						
Materials	Cotton, Nylon, Chemical fiber, leather, etc.						
Image Format	Tiff, Jpeg, Eps, Pdf						
Driptor Sizo	(Machine size) 1600 X 900 X 1300mm(LXWXH)						
Philiter Size	(Packing size) 1860 X 960 X 760mm(LXWXH)						
Printer Weight	(Net weight) 150 KG						







## 3.1 Printer Structure





- 1 Control Panel
- 2 Printhead Carriage
- 3 Capping Assembly
- 4 Left Leg
- 5 Right Leg
- 6 Printer Support Beam
- 7 Machine Leg Base
- 8 Ink Tank Holder
- 9 Ink Tank
- 10 Ink Tank Holder
- 11 Ink Cartridge Holder
- 12 Ink Cartridge
- 13 Roller
- 14 Roller
- 15 Feeder





**3.2 Base Legs Installations** 





## 4.1 Computer configuration requirements

- 1. Computer system: Windows7 Ultimate 64-bit computer system.
- 2. CPU configuration: use i5 or above i5 CPU.
- 3. Memory stick: 8G or above.
- 4. Network card and network cable requirements: Gigabit or above network card must be used, and the network cable needs to be super Category 6 or above to support dry-mega communication network cable.
- 5. Hard disk configuration: It is recommended to use a 120G solid state hard disk as the system disk, and then add a mechanical hard disk as a secondary disk as needed.

### 4.2 Software

#### 4.2.1 Printing software installation



Check the communication set of the software, change it to "TCP", and then restart the software.





### 4.2 Software

#### 4.2.2 IP address Setting

Open the desktop computer, find the control panel to enter, and then select the network and sharing center. Find the corresponding LAN port, click Local Area Connection, select Properties—Internet Protocol Version 4, and then click OK. Click to use the following IP address, set the IP address to 192.168.127.11, and the subnet mask to 255.255.255.0, and then click OK. (Note: IP address 192.168.127.X, the last digit of X must be between 11 and 254.)

S Control Panel/All Control Panel Items/Network Connections			∮ Internet Properties ×	Internet Protocol version 4 (TCP/IPv4) properties
	etwork Connections	v U Search	Network Sharing	Gauge
File Edit View Advanced Tools			Use when connecting:	If network support this feature, you can get automatically assign IP Settings. Otherwise, you need from the network administrator access to appropriate
Organise * Disable this network device Diagnose this connec	ction Rename this connection Change settings of this connection		Realtek PCIe FE Family Controller	IP Settings.
WLAY Initio Durcharg12 IndeR Duel Berd Wreies-ACT2.	Ne unplugged Disable Status Diagrose Bridge Connoctions Create Shortaut Delete Remame Properties		Corrigered The connection uses the following item: Microsoft Reteark at limit Microsoft Reteark at limit Micro	Other IP address suturatically (2)         ④ Uhs the following IP address (3):         IP address (3):         Default gateway (2):         ① Bet IDE address adtrantically         图 Det DE address adtrantically         ● But the following IP address         ● Weit followin

## 4.2 Software

### 4.2.3 Network Cable Connection

Connect one end of the gigabit network cable to the network port of the printer motherboard, and the other end to the network port of the computer host.





## 4.3 RIP Software Installation

Please check with your trainer for the Software you have selected.





### **4.3 RIP Software Installation**

#### 4.3.3 IP address Setting

#### 1. Driver file replacement

First open the software installation location disk folder, find the path of the driver folder:\Program Files (x86)\SAi\FlexiPRINT 19 Titan Edition\OutputDrivers, copy and paste all the new driver files into the "OutputDrivers" folder (copy and replace ).

Program Files (x86) > SAi > FlexiPRINT 19 Titan Edition > OutputDrivers >

#### 2. Add device

Run icon, Open the software, click "Settings" in the menu bar-"Add Device" Select "Titan" as the printer brand. The choice of printer model, Honson System Selection TT-HS4720-WV-Mini. Then click "Next", and finally click Finish.

File Edit (	Setup View Help		Channe a danian	
M	Add Setup	Ctrl+N	What is the brand name of your color pri	nter?
	Setup Properties	Ctrl+K	Titan	•
Wizard	Change Device Port		What is the model name of your Titan?	
	Default Job Properties		TT-HS4720-WV-Hini	•

#### 3. Read presets and automatically add ICC files

Click "File"-"Import Preset" in the menu bar to find the downloaded preset file in ptf format. You can select multiple preset files and add them together.



Fine: resolution high,for print small picture Middle: middle resolution,mostly use

After adding, when there is a prompt dialog box "... already exists, do you want to replace it?", check "Use for all" and click "OK".

ialog	
D:\Program Files (x86)\S exists. Do you want to rep	AlvFlexiPRINT 19 Titan Edition\/CCProfile\RGB\sRGB_IEC61966_21.icm already place #?
	OK No VApply to all items

If the dialog box prompts "File with same name exists, Overwrite?", click "OK". (There are multiple same operations) Finally, the dialog box prompts "Preset successfully imported", click "OK".







#### 4. Manually add ICC files

Click "Setup" in the menu bar-"Default Job Properties..."

![](_page_10_Picture_4.jpeg)

Select "Color Management"-"Output Configuration File"-"Add", select the corresponding ICC configuration file, and then add the ICC.

			Default Job Properties
			Preset:
			Car correction Car correction Pagest Carlos de Correction Pagest Carlos de Correction de Correction Pagest Carlos de Correction de Correction Carlos de Correction de Correction de Correction de Correction Carlos de Correction de Correction de Correction de Correction Carlos de Correction de Correct
Kg_4720TH_6PASS_20200701 .icc	2020-07-01 17:17	ICC 配置文件	Starth grafiante
K 4720TH 8PASS 20200701.icc	2020-07-01 17:17	ICC 配置文件	
Midlle_HS_TH20200724 V720x1800 6	2021-03-03 19:20	ICC 配置文件	V Ise color mapping
Midlle_HS_TH20200728 V720x2400 8	2021-03-03 19:20	ICC 配置文件	Cguver overgrint     Anti-aliesing     Apply white knocknut for overprint     Variable det
	A H5,47207H,69455,20200701.icc     A H5,47207H,89455,20200701.icc     A H614;717H,89455,20200701.icc     Midle_H5,7140200724 V720x3800 6     Midle_H5,7140200728 V720x2400 8	A         H5,4720TH,6PASS,20200701, Joc         2020-07-01,17:17           A         H5,4720TH,8PASS,20200701, Joc         2020-07-01,17:17           A         Molle, H5,TH20200724 V720x1800 6         2021-03-03,19:20           A         Molle, H5,TH20200728 V720x2400 8         2021-03-03,19:20	▲ H5,4720TH,69455,20200701,6x         2020-07-01 17:17         ICC 配置交件           ▲ H5,4720TH,99455,20200701,6x         2020-07-01 17:17         ICC 配置交件           ▲ M6Jle,H5,TH20200724 V720x1800 6         2021-03-03 19:20         ICC 配置交件           ▲ M6Jle,H5,TH20200728 V720x2400 8         2021-03-03 19:20         ICC 配置交件

#### 5. Set the default job properties

Click "Setup" in the menu bar-"Default Job Properties ... "

![](_page_10_Figure_9.jpeg)

There are multiple ICC modes to choose from in the preset options, and customers can choose a preset as the commonly used one according to their needs. Or adjust the parameters yourself, select the corresponding ICC configuration file, save a preset name, and set it as the default job attribute.

est: Hiddl=Bigital KS-87ASS-20210429 - Ref Hiddl=Bigital KS-87ASS-2021	Presst:
Emove Remove	Hedia: Hedia: C-4720TH_6FASS_20200701 ice Hesolution: Hesolution:
🚺 0.000 cm 🔅 🛄 0.000 cm	Color mode: CHTK (2 bits) - Choke
0.000cm 0 0.000cm 0	Smooth gradients

Some general default job properties are set as follows: [Layout]: The media size and width are set according to the width

[Layout]: The media size and width are set according to the width of the printing film, and the height is the default value.

t: Middle-Dig	ital HS-8P/	SS-20210429	16	
	<b>P</b>	1 💽 👮	1	
Custom size			•	Remove
59.000 cm	۵ 🗈	12700.000 cm		
			Lati	
0.000 cm	1	0.000 cm		

![](_page_10_Picture_17.jpeg)

![](_page_11_Picture_1.jpeg)

[Workflow]: After outputting, set to Hold.

![](_page_11_Picture_3.jpeg)

[Color Management]: Choose different preset modes on the presets, and the color correction will be changed to different ICCs accordingly.

White spot color choke function: Choke and Bleed——Spot\_White——>>Type: Choke, Distance: 0.1mm (modified according to different needs)

Media:         Midlle_MS_TH20200728         w           Resolution:         V720n2400 8Pass         w         DFI           Color mode:         CMTK (2 bits)         w         Choke	•
Resolution: V720x2400 8Pass - DFI Color mode: (MTK (2 bits) - Choke	3
Color mode: [CMTK (2 bits) . Choke]	>
Dither: FMEPress - Edit	
hannel Type Distance	
pot_White None 0.00mm	
pot_Varnish None 0.00mm	

[Printer Options]: White ink options: spot color.

![](_page_11_Picture_8.jpeg)

[Color adjustment]: Channel: white spot color. (Adjust the amount of white ink output) Spot\_White [ input: 100%; output: X% (X is adjusted between 1-100)]

Finally, after setting all the parameters, click "OK" to save the settings.

![](_page_11_Figure_11.jpeg)

![](_page_11_Picture_14.jpeg)

![](_page_12_Picture_1.jpeg)

Add assignment RIP picture

Open the "Job" icon on the main interface of the software, and directly add the print image file that needs to be processed (TIF format file is generally used)

![](_page_12_Figure_4.jpeg)

Nest Jobs: When there are multiple pictures that need to be printed together, after adding multiple pictures, select the picture that needs to be typeset together, and then right-click the mouse to select "Nest Jobs".

![](_page_12_Figure_6.jpeg)

#### Job attributes:

- 1. Job size, you can scale the picture size according to your needs; (to check manual nesting)
- 2. Position, the distance setting from picture to page edge and header; (to check manual nesting)
- 3. Copies, you can copy multiple pictures and typeset at the same time according to your needs;
- 4. Spacing, when multiple pictures are typeset, set the horizontal and vertical spacing of pictures;
- 5. Manual nesting, you can manually adjust the position of the picture after checking;
- 6. Mirror, image output and printing; (to cancel manual nesting)
- 7. Rotate ,choose the direction of the image rotation according to your needs. (To check manual nesting)

![](_page_12_Figure_15.jpeg)

![](_page_12_Picture_18.jpeg)

![](_page_13_Picture_1.jpeg)

### 4.4 Power

#### 1. Power safety

Note: For the safety of people and machines, be sure to connect the ground wire. Use a digital multimeter to measure whether the power supply voltage is normal, and the range of live and neutral measurement values: 210-240VAC (the multimeter is set to 750V AC gear).

![](_page_13_Picture_5.jpeg)

#### 2. Power on the machine and check the reset

When the machine is not powered on, pull it back and forth with your hand to see if it is smooth, and then find the power cord in the machine accessories, one end is connected to the 220V power supply, and the other end is plugged into the machine's power socket. Turn on the power switch of the machine, and the machine will be reset.

![](_page_13_Picture_8.jpeg)

After the machine is powered on, the car will first self-check after it is normal. Double click to open the PrintEXP control software, the machine and the printing software are connected normally.

#### Action test

In the control software interface, use the mouse to control the left and right of the trolley and whether it runs normally before and after the stepping. Click Clean to confirm whether the ink absorption and squeegee height of the ink stack is normal.First use RIP software to make a file, import the print file and click print, let the machine simulate printing to check whether the printing is normal, and then power off to install the print head after it runs normally.

![](_page_13_Picture_12.jpeg)

![](_page_13_Picture_15.jpeg)

![](_page_14_Picture_1.jpeg)

### 4.4 Power

### 4.4.1 Ink tank and ink cartridge installation

- 1. Install and fix the screws on the main ink tank and the ink cartridge holder, then put the ink tank and the ink cartridge in order, connect the ink tube connecting the corresponding color ink tank and the ink cartridge, and insert a clip in the middle of the ink tube (can be used for equipment After disconnecting the power, the clip clamps the ink tube to prevent ink from flowing and leaking).
- 2. Connect the white ink tube, the ink tube marked "IN" is connected to the IN end of the white ink tank, and the ink tube marked "OUT" is connected to the OUT end of the white ink tank. Connect the power cord of the white ink mixing motor.
- 3. Install the battery for the level alarm buzzer of each ink tank, insert the connection terminal, and finally add the corresponding color ink to the corresponding ink tank.
- 4. After adding ink to the ink tank, turn the liquid level knob to adjust the level of the ink cartridge (clockwise rotation increases the liquid level, counterclockwise rotation decreases the liquid level), and the ink level of each color remains the same.

![](_page_14_Picture_8.jpeg)

![](_page_14_Picture_11.jpeg)

![](_page_15_Picture_1.jpeg)

### 4.5 Print head installation position and cable connection

1. Installation of the data cable, the print head data cable is two 14P cables on the left and the right. (Note: Be careful when plugging in, so as not to damage the print head or the data cable!)

![](_page_15_Picture_4.jpeg)

Push the print head steadily to the left and back, close to the bottom plate, and install and fix it. (Note: Do not screw the print head mounting screws too hard)

![](_page_15_Picture_6.jpeg)

3. Ink circuit connection of print head and ink cartridge Set the ink sequence: first connect the ink tube to the corresponding ink cartridge, Then use a syringe to draw the ink from the ink cartridge to the damper,

It is better to draw out about 20ML of ink for each ink path The ink level in the ink sac of each ink path must be at a uniform height, It should be basically about 2/3 of the capacity of the DAMPER

Then connect the ink sacs to the print head in order, from left to right: KCMY

![](_page_15_Picture_10.jpeg)

13200

![](_page_15_Picture_12.jpeg)

![](_page_16_Picture_1.jpeg)

### 4.5 Print head installation position and cable connection

#### 4.5.1 The print head data line is connected with the adapter board (I3200 Print head)

The connection sequence of the data line corresponds to the markings on the trolley board and the print head in turn. (Note: When plugging and unplugging the print head data cable, it must be operated when the power is turned off. Remember that the print head data line and down must not be reversed. Reversing the print head will damage the print head!)

![](_page_16_Picture_5.jpeg)

![](_page_16_Picture_6.jpeg)

After confirming that the print head data line is connected correctly, turn it on, and observe whether the "ERROR" light on the car board is on. If the light is on, it is abnormal. Turn it off immediately and check.

![](_page_16_Picture_10.jpeg)

![](_page_17_Picture_1.jpeg)

## 4.5 Print head installation position and cable connection

4.5.2 Sequence diagram of the data line of the PH board and the decryption card (if 4720 Print head)

![](_page_17_Picture_4.jpeg)

![](_page_17_Picture_5.jpeg)

![](_page_17_Picture_8.jpeg)

![](_page_18_Picture_1.jpeg)

![](_page_18_Picture_2.jpeg)

![](_page_18_Picture_3.jpeg)

The icon circled is the decryption card light. If the print head is plugged in, the corresponding indicator light does not light up, please turn off the machine immediately and make sure that the data cable is connected correctly.

![](_page_18_Picture_5.jpeg)

After confirming that the print head data line is connected correctly, turn it on, and observe whether the "ERROR" light on the car board is on. If the light is on, it is abnormal. Turn it off immediately and check all connections.

![](_page_18_Picture_9.jpeg)

![](_page_19_Picture_1.jpeg)

## 4.6 Before Printing

#### 4.6.1 Nozzle Test

Connect the machine to the power supply and enter the printing software interface. (Note: the ink stack should be close to the nozzle after the machine self-check is completed) Click the fill ink icon to confirm that ink is flowing out of the waste ink tube, and click the fill ink icon again to cancel. Click the cleaning icon again. After cleaning is complete, confirm that the platform is free of obstacles, load the material, click the detection nozzle icon, print the nozzle test, and confirm that the print head is in good condition.

![](_page_19_Picture_5.jpeg)

## 4.6 Before Printing

### 4.6.2 Vertical alignment of the print head

Enter the software option "Adjust" interface and align the print head vertically "Print Adjust".

![](_page_19_Picture_9.jpeg)

![](_page_19_Picture_12.jpeg)

![](_page_20_Picture_1.jpeg)

## 4.6 Before Printing

### 4.6.3 Step Calibration

Step calibration, Print Adjust.

O Bidirec Adjust	<ul> <li>Head Install</li> <li>Step Adjust</li> <li>Head Space</li> <li>Color Adjust</li> <li>Bidirec Adjust</li> </ul>	Base Step Print Adjust 0.00 Pixel Calculate 12135 📀	Step Offset Print Pass Mode: 1Pass tep Offset Value: 0 1Pixel=5.137416Pulse Print Adjust	Prev Next
------------------	---	---	--	--------------

The calibration chart is at the value -2, and the lines completely overlap.

![](_page_20_Picture_7.jpeg)

So enter the value -2 in the corresponding input box, and then click Calculate.

Head Install	Base Step		Step Offset	
🔘 Step Adjust	Print Adjust 0.00 -2	Pixel	Print Pass Mode: 1Pass	
Head Space	Calculate 12135		tep Offset Value: 0	
Color Adjust			1Pixel=5.137416Pulse	
Bidirec Adjust			Print Adjust	

Print Adjust again and confirm that the line at the value 0 is the most uniform. Need to click the "Save" button in the upper right corner.

![](_page_20_Picture_11.jpeg)

![](_page_20_Picture_14.jpeg)

![](_page_21_Picture_1.jpeg)

## 4.6 Before Printing

### 4.6.4 Calibration of nozzle horizontal space

Calibration of the horizontal distance between the print heads, Print Adjust.

Head Install	O Horiz	ontal	٥v	'ertical											Prev
Step Adjust	Left dis	stance:	Print A	djust	Print V	'erify		light d	listance:	Print	Adjust	Print Ve	erify		Next
Head Space		0		1485		-8	1484		0		1486			1484	
Color Adjust															
Bidirec Adjust															

The calibration chart is at the value +2, and the lines completely overlap.

![](_page_21_Figure_7.jpeg)

In the corresponding print head, increase or decrease the corresponding value in the input box of the corresponding printing direction.

Head Install	Horizontal	Vertical								Prev
Step Adjust	l off distances		11-11-		tight distances	Ditate a street	Distance	16.		Next
O Head Space	Left distance:	Print Adjust Print	Verify		light distance:	Print Adjust	Print Ve	rity		
0.01	H1 0	H2 1485 H	-8-6 H4	1484	H1 0	H2 1486	H3	-7	1484	
Color Adjust										
Bidirec Adjust										

Print Adjust again and confirm that the line at the value 0 is the most uniform. Need to click the "Save" button in the upper right corner.

![](_page_21_Picture_11.jpeg)

Then calibrate the direction to the right, the steps are the same as above.

![](_page_21_Picture_15.jpeg)

![](_page_22_Picture_1.jpeg)

## 4.6 Before Printing

#### 4.6.5 Nozzle Vertical Space Calibration

Calibration of the vertical distance between the print heads, Print Adjust.

<ul> <li>Head Install</li> <li>Step Adjust</li> <li>Head Space</li> </ul>	Horizontal tical distance:	Vertical Print Adjust				Prev Next
Color Adjust		0	770	1950	2721	
Bidirec Adjust						

The calibration chart is at the value -2, and the lines completely overlap.

![](_page_22_Figure_7.jpeg)

In the corresponding print head, increase or decrease the corresponding value in the input box of the corresponding printing direction.

Head Install	Horizontal	• Vertical							Prev
Step Adjust	41	D.1.1.1.1.1							Next
Head Space	tical distance:	Print Adjust							
Color Adjust		0	H2	770	H3	1950 194	Н4	2721	
Bidirec Adjust									

Print Adjust again and confirm that the line at the value 0 is the most uniform. Need to click the "Save" button in the upper right corner.

![](_page_22_Picture_11.jpeg)

![](_page_22_Picture_14.jpeg)

![](_page_23_Picture_1.jpeg)

## 4.6 Before Printing

#### 4.6.6 Bidirectional Printing Calibration

Finally, perform bidirectional printing calibration, Print Adjust.

	laterial Select: X Print Dpi: Print Speed:	Default 360DPI High	Add Delete X Copys: 1 Y Copys: 1	Edit Co	py Paste X Space: 0 Y Space: 0	mm mm	
Head Install							Prev
Step Adjust	Bidirect Value	: 12.00					Next
Head Space		Print Adjust					
Color Adjust							
Bidirec Adjust							

The calibration chart is at the value -3, and the lines completely overlap.

![](_page_23_Picture_7.jpeg)

Select the corresponding printing speed, and increase or decrease the corresponding value according to the calibration chart.

	laterial Select:	Default	Add Delete	Edit C	Copy Paste		
	X Print Dpi:	360DPI	X Copys: 1		X Space: 0	mm	
	Print Speed	High	Y Copys: 1		Y Space: 0	mm	
Head Install							Prev
Step Adjust	Bidirect Value	: (12.00 <b>9</b> 12					
Head Space		Print Adjust					Next
Color Adjust							
Bidirec Adjust							

Print Adjust again and confirm that the line at the value 0 is the most uniform. Need to click the "Save" button in the upper right corner.

![](_page_23_Picture_11.jpeg)

Print Speed:	High
Bidirect Value	Cow Middle High
	Print Adjust

Finally, switch to different speeds to calibrate the two-way printing values and save them separately.

![](_page_23_Picture_16.jpeg)

![](_page_24_Picture_1.jpeg)

### 4.6 Before Printing

#### 4.6.7 Background Factory Settings

Password:

General Password : 111111

Factory model: Ctrl+F12 into factory model,then enter password: 222222

![](_page_24_Picture_7.jpeg)

Version information

Click the version information in the advanced interface and enter the following interface:

Hosonsoft	🖉 File	•	🖶 Print	Ę	🖇 Setting	đ	Adjust	ĒV	oltage	🗐 Ac	lvance				8
Print Pauso		EQ. Check	Clean	Flash	℃ Wet	( Margin	€ Left	→ Right	<b>↓</b> Ahead	⊕     Back     ■	CC X Reset	<b>G</b> Spot		Load	Save
Factory															
O Version Info	м	B Serial	Number					000	07-23210	32095 (	2.75 010)			Upgrade	;
Rip Print														Refresh	
Advance	м	B Progr	am Versior					5.7	.6.5.22.R.	BS				Detaile	
	So	oftware	Version					5.7	.6.5.14.R.	BS				Details	
	Fir	mware	Configure	Info				2.7	5_1.23_4	720_4_V	5.7.6.5_20	210317			
	Fir	mware	Parameter	Info				2.7	5_1.23_4	720_4_V	/5.7.6.5_20	210317			

#### Change key panel language

Select advance-encryption-language.as shown below

![](_page_24_Figure_13.jpeg)

![](_page_24_Picture_16.jpeg)

![](_page_25_Picture_1.jpeg)

Change waveform Advance-enter password Into factory model Select wareform setting ,default waveform.

ert	Right	Ahead	Back	Reset	Flush	Clean						
Wavef	orm setting											
Wave	form file se	lection						Waveform	I <del></del>			
Wave	form file:						Apply	Defaul	t waveform	波形5	•	
<												
3												
<												
<												
<												
3												

![](_page_25_Figure_4.jpeg)

![](_page_25_Picture_7.jpeg)

![](_page_26_Picture_1.jpeg)

![](_page_26_Figure_2.jpeg)

#### STATUS BAR ICONS

#### DESCRIPTION

![](_page_26_Picture_6.jpeg)

Network cable normal connection

![](_page_26_Picture_8.jpeg)

Network cable disconnection

![](_page_26_Picture_12.jpeg)

![](_page_27_Picture_1.jpeg)

(cr)	Offline
(*	Turn on the flash spray
	Turn off the flash spray
(°Ç`)	System functions normally
(¢)	System error
$(\diamond)$	System warning
(`¢`)	Offline
	Normal print head temperature
	Abnormal print head temperature
	Print head temperature warning
	Offline
	Iurn off the flash spray         System functions normally         System error         System warning         Offline         Normal print head temperature         Abnormal print head temperature         Print head temperature warning         Offline

![](_page_27_Picture_5.jpeg)