

ATP 300
PRO

ATP 600
PRO

User manual



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1 Introduction

Industrial Desktop Labelprinter

The ATP-300/600 Pro is Altec's Industrial Desktop Label printer. This is the successor to the TTP-200/300 series. This new label printer is technically improved and a lot more user-friendly. Placing media and printing labels is now easier and more advanced. Print 1001 types of labels with one and the same label printer.

Copyright information

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Compliance and approvals



EN 55022, Class B
EN 55024
EN 60950-1



FCC part 15B, Class B



UL 60950-1



EN 60950-1



GB 4943.1
GB 9254
GB 17625.1

Battery safety warning

- Do not throw the battery in fire
- Do not short circuit the contacts
- Do not disassemble the battery
- Do not throw the battery in municipal waste

FCC Statement

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 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 device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

⚠ CAUTION

- Risk of explosion if battery is replaced by an incorrect type.
Dispose of used batteries according to the instructions.
- Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.
- Hazardous moving parts, keep fingers and other body parts away.

1.1 Product features

1.1.1 Standard features

The printer offers the following standard features:

Thermal transfer printing / Direct thermal printing

3,5" TFT LCD with 6 buttons

32-bit RISC CPU

Gap transmissive sensor (position adjustable)

Black mark reflective sensor (position adjustable)

See-through ribbon end sensor

Head open sensor

128MB Flash memory

Micro SD card reader for memory expansion, up to SDHC 32GB

RS-232 interface (Max. 115,200 bps)

USB 2.0 interface (Hi-speed mode)

Internal Ethernet print server (10/100 Mbps) interface

USB host

Real time clock & Buzzer

Standard industry emulations right out of the box including Eltron® and Zebra® language support

Internal 8 alpha-numeric bitmap fonts

Fonts and barcodes can be printed in any one of the four directions (0, 90,180, 270 degree)

Internal Monotype Imaging® true type font engine with one CG Triumvirate Bold Condensed scalable font

Downloadable fonts from PC to printer memory

Clean print head warning

Barcodes, graphics and image printing

1.1.2 Optional features

The printer offers the following optional features:

Peel-off kit

Industrial heavy duty cutter

Keyboard / Barcode scanner

External label roll mount

1.2 General specifications

Physical dimensions	226 mm (W) x 200 mm (H) x 332 mm (D)
Weight	4,08 KG (8,99 lbs)
Mechanism	Clamshell with double-walled plastic
Power	External power adapter - Input: AC 100-240V, 2.5A - Output: DC 24V/5.41A
Environmental condition	Operation: 5 ~ 40°C (41 ~ 104°F), 25~85% non-condensing Storage: -40 ~ 60 °C (-40 ~ 140°F), 10~90% non-condensing
Environmental concern	Comply with RoHS, WEEE

1.3 Print specifications

Print head resolution (dots per inch/mm)	ATP-300 Pro 300 dots/inch (12 dots/mm) ATP-600 Pro 600 dots/inch (24 dots/mm)
Printing method	Thermal transfer / Direct thermal
Dot size	ATP-300 Pro 0,084 x 0,084 mm (1 mm = 12 dots) ATP-600 Pro 0,042 x 0,042 mm (1 mm = 24 dots)
Print speed	Up to 6 inch/s (152 mm/s)
Max. print width	105,6 mm (4,15")
Max. print length	2.540 mm (100")

1.4 Ribbon specifications

Ribbon outside diameter	Max. 67 mm OD
Ribbon length	300 meter
Ribbon core inside diameter	25,4 mm (1") ID core
Ribbon width	40 mm ~ 110 mm
Wind direction	Coated Side Out (CSO)

1.5 Media specifications

Media roll capacity	Max. 125 mm (5") OD
Media core diameter	40 mm (1,5") ID core
Media type	Continuous, die-cut, black mark, external fan-fold, notch
Wind direction	Coated Side Out (CSO) / Coated Side In (CSI)
Media width	19 mm ~ 112 mm
Media thickness	0,055 mm ~ 0,254 mm
Black mark	Min. 8 mm (W) x 2 mm (H)
Gap height	Min. 2 mm

2 Product overview

2.1 Unpacking the printer

This printer has been specially packaged to withstand damage during shipping. Please carefully inspect the packaging and printer upon receiving the ATP-300/600 Pro printer. Please retain the packaging materials in case you need to reship the printer. Please check if the following items are included:

- ATP-300/600 Pro printer unit 1X
- Quick installation sheet 1X
- Power cord 1X
- Auto switch power supply 1X
- USB interface cable 1X
- Ribbon spindles 2X
- Paper core 1X



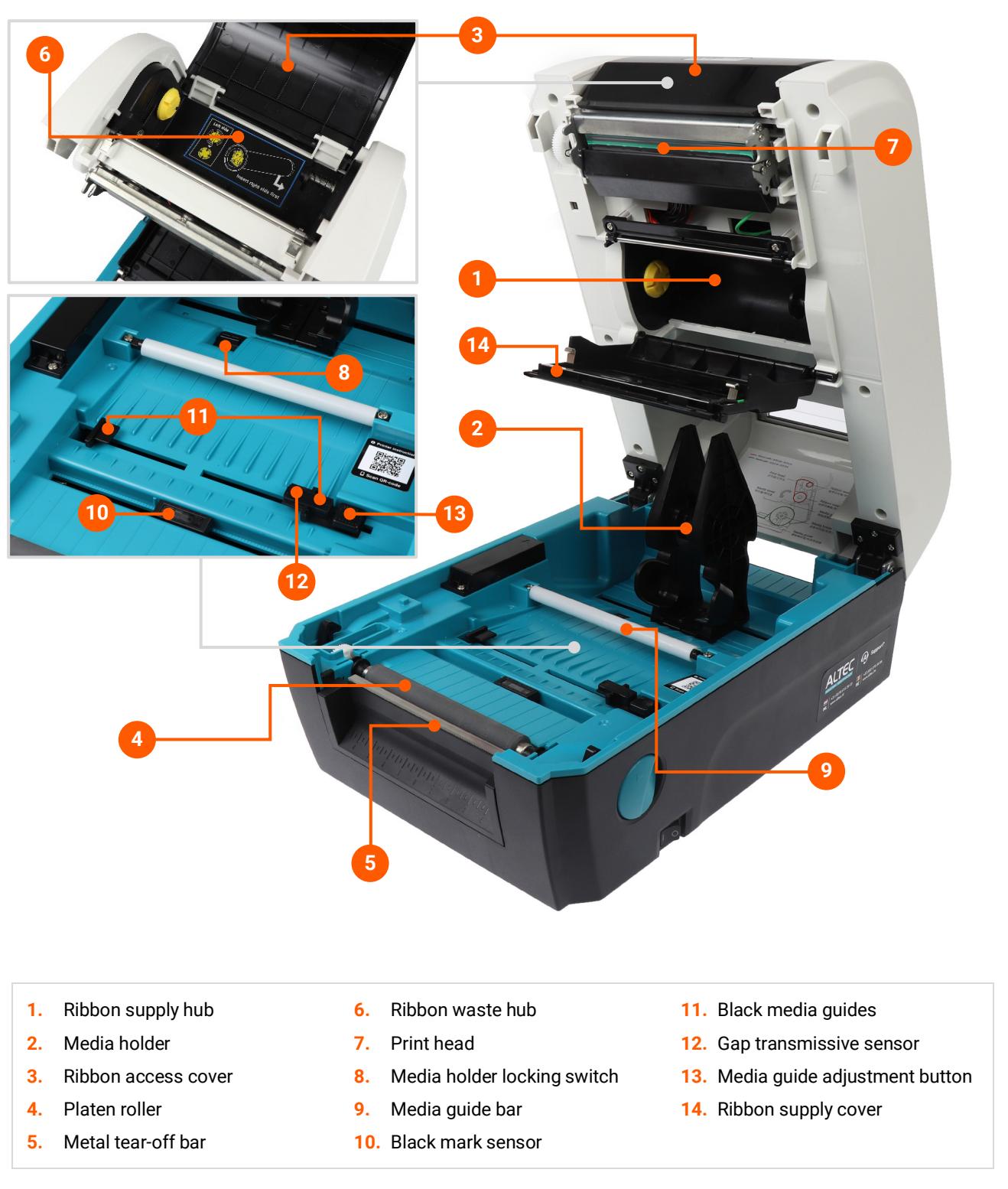
2.2 Printer overview

2.2.1 Front view



1. LCD display
2. Menu buttons
3. Metal tear-off bar
4. Top cover open lever
5. Power switch

2.2.2 Interior view



- 1.** Ribbon supply hub
2. Media holder
3. Ribbon access cover
4. Platen roller
5. Metal tear-off bar

- 6.** Ribbon waste hub
7. Print head
8. Media holder locking switch
9. Media guide bar
10. Black mark sensor

- 11.** Black media guides
12. Gap transmissive sensor
13. Media guide adjustment button
14. Ribbon supply cover

2.2.3 Rear view



- | | |
|-------------------------|---|
| 1. Power jack socket | 5. USB interface - connect to a PC |
| 2. Serial port (RS-232) | 6. USB host - connect to a keyboard / barcode scanner |
| 3. Ethernet interface | 7. MAC address identification label |
| 4. Micro SD card socket | 8. External label entrance |

3 Setup

3.1 Printer setup



1. Place the printer on a flat and secure surface



2. Make sure the **power switch** is turned off



3. Connect the printer to the computer with the provided **USB cable** (or an **ethernet cable**).



4. Plug the power cord into the **power cord socket** at the rear of the printer.

Then plug the power cord into a properly grounded power outlet.

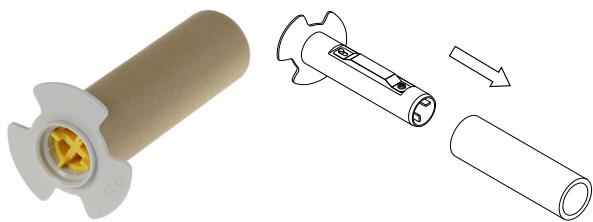
3.2 Installing the ink ribbon



1. Open the top cover of the printer by pulling the **green levers** - located on each side of the printer - and lifting the top cover to the maximum open angle.



2. Open the **ribbon access cover** and the **ribbon supply cover**.



3. Insert a **ribbon spindle** into the paper core.



Do you have black ribbon spindles?

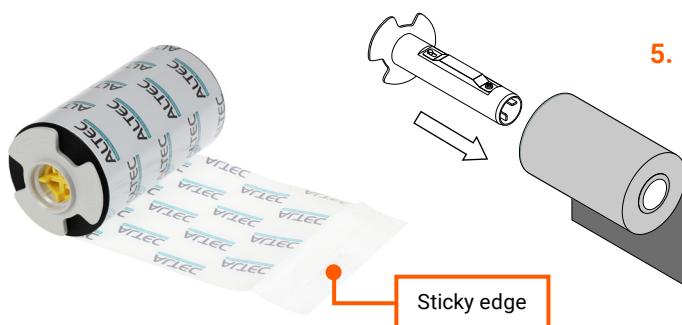
Request a new set of white ink ribbon spindles free of charge via +31(0)78 - 615 20 33 or info@altec.nl



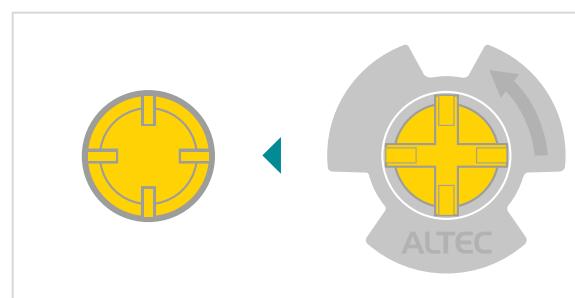
4. Install the paper core with **the right side first** onto the ribbon rewind hub first.

Then align the (yellow) notches **on the left side** to mount it.





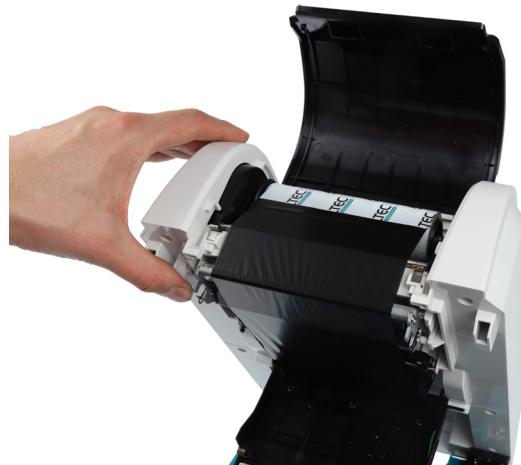
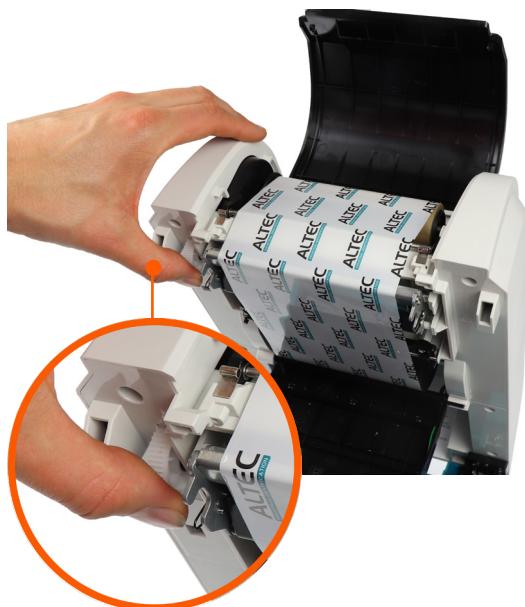
Then align the (yellow) notches **on the left side** to mount it.



7. Stick the ink ribbon onto the (waste) paper core.



8. Turn the (waste) paper core with the (white) **ribbon rewind gear** until the plastic leader is thoroughly wound.



Close the top cover of the printer after installing the ink ribbon.



Instruction video

Learn how to install an ink ribbon with our instruction video.

[Watch video](#)

3.3 Loading media

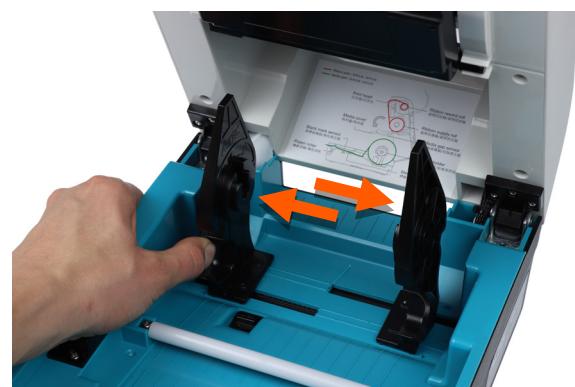
3.3.1 Placing media in the printer



1. Open the top cover of the printer by pulling the **green levers** - located on each side of the printer - and lifting the top cover to the maximum open angle.



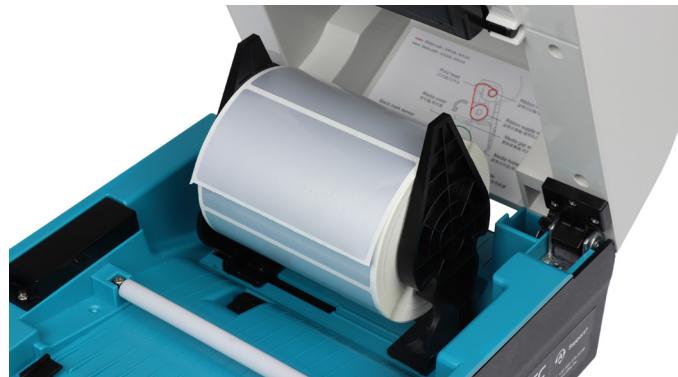
2. Make sure the (square) **lock** of the label holders is set to open.



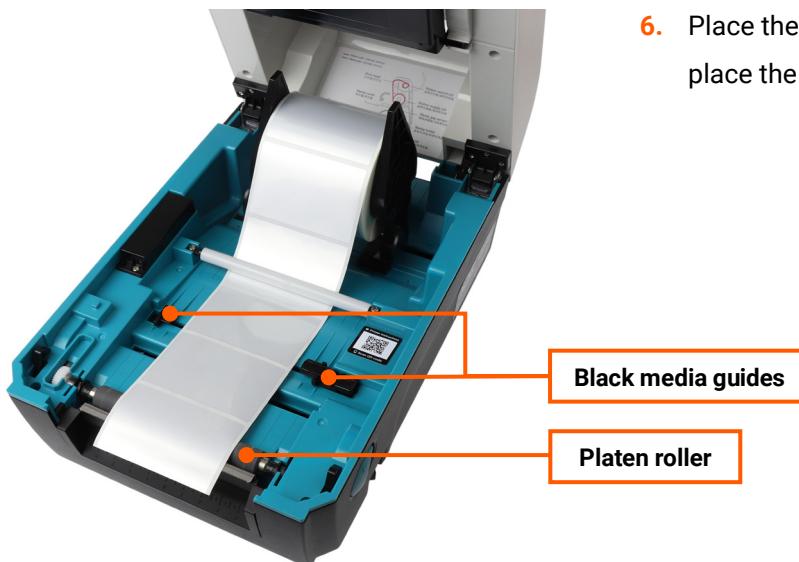
3. Separate and hold the **media holders** open.



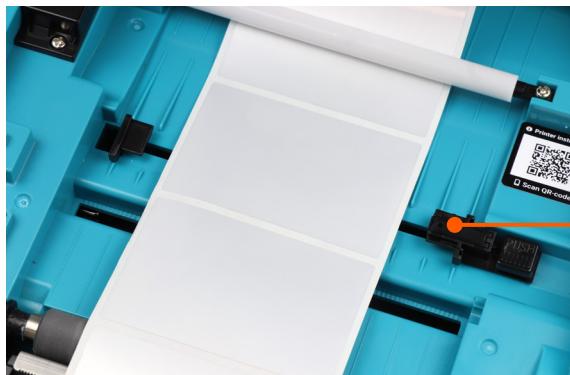
4. Place a roll of labels between the holders and close them onto the core.



5. Lead the media under the white **label guide bar**.



6. Place the media between the **black media guides** and place the label leading edge onto the **platen roller**.



7. Move the **black media guides / gap sensor** to fit the media width by pushing the media guide adjustment button.



Please ensure that the black media guides are placed correctly:



Too tight



Too wide



Correct



Instruction video

Learn how to place media with our instruction video.

[Watch video](#)

3.3.2 Sensor setup



Labels with a **gap** (spacing)



Labels with a **notch** (cut out hole)



Continuous media (no detection)



Labels with a **notch** out of range of gap sensor



Black mark sensor

The two small dots are the sensor



Example of media
with **black marks**

A. Gap sensor

This is the most used sensor. Use this sensor when labels have a gap between them. This can be space between the labels or a (cut out) notch in the media.

Examples

- Nameplate labels
- Print&Laminate labels
- Print&Protect labels
- ResoPrint labels
- Self-laminating cable labels
- ADS Sleeves
- Industrial tags
- Component labels
- Welding label
- Paintlabel
- ToughSurface
- Industrial vinyl
- Inspection labels
- Laboratory labels
- Continuous media

B. Black mark sensor

Use the black mark sensor when a media has a notch that is out of range of the gap sensor - or when media has black marks on the back of the label.

Position this sensor accurately under the notch of the label. The two small dots of the sensor should be exactly under the gap.

Examples

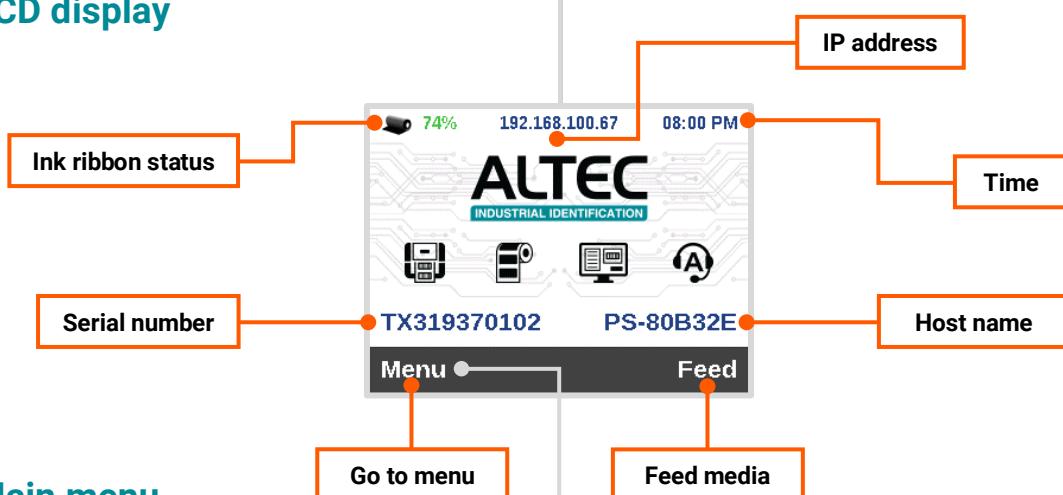
- ADC Cable markers
- Cable flags
- Standard sleeves
- Wire tags
- P- & T- labels
- Repositionable cable labels
- Lockout / Tagout tags
- High temperature tags
- Magnetic labels

Close the top cover of the printer after loading the media and setting up the sensor.

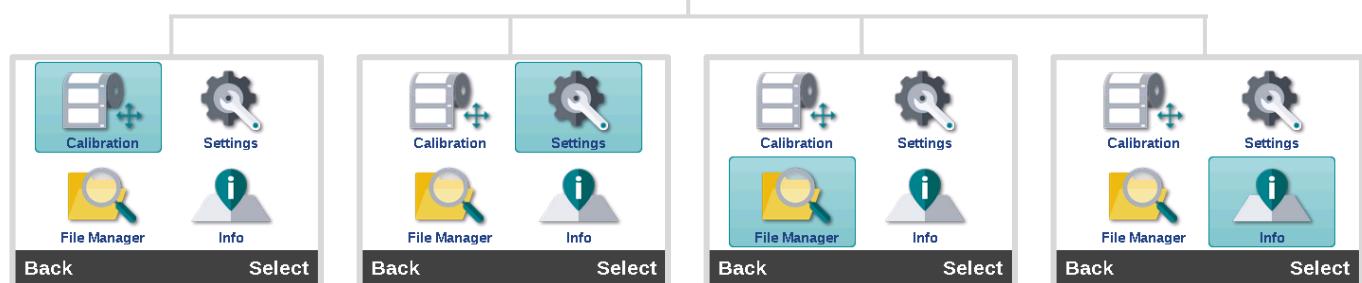
4 LCD display menu



4.1 LCD display



4.2 Main menu



Calibration

- Auto calibration
- Manual setup
- Threshold detect
- Maximum length

Settings

- 1st label adjustment
- Interface
- Diagnostic
- Advanced
- Factory default

File manager

- DRAM
- FLASH
- CARD
- USB

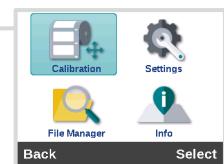
Info

- Instruction videos
- Printer info
- Contact details

4.3 Calibration

4.3.1 Auto calibration

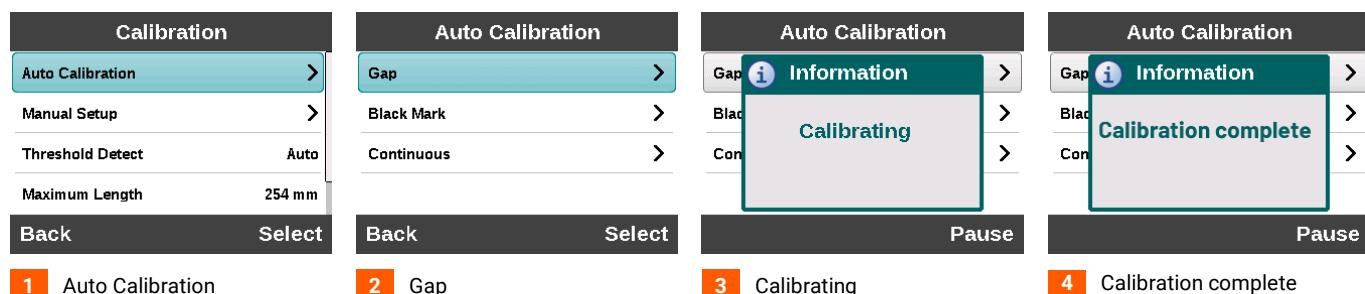
The printer will feed 2 to 3 labels to calibrate the sensor automatically.



Gap

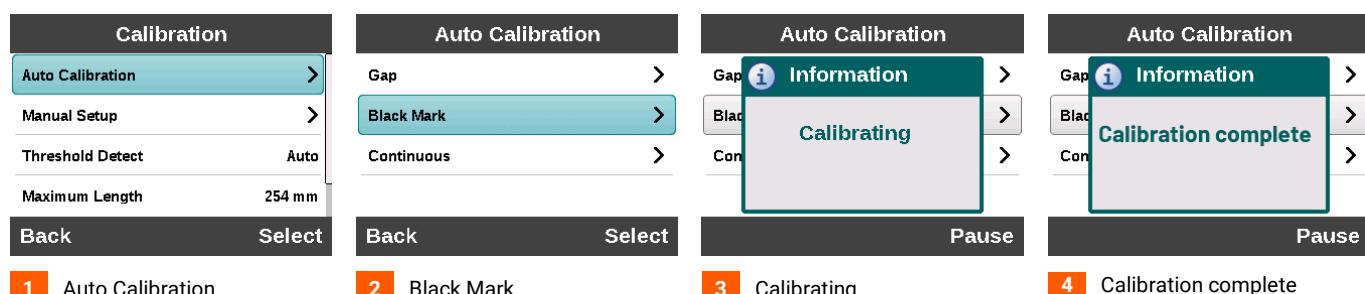
Use this method when labels have a gap between them.

This can be space between the labels or a (cut out) notch in the media.



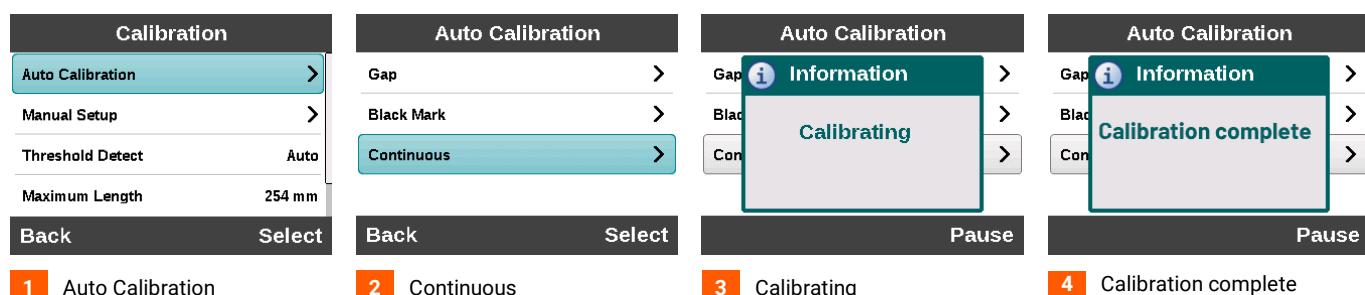
Black mark

Use this method when a media has a notch that is out of range of the gap sensor - or when media has black marks on the back of the label.



Continuous

Use this method for continuous media (A320 Industrial Vinyl for example)

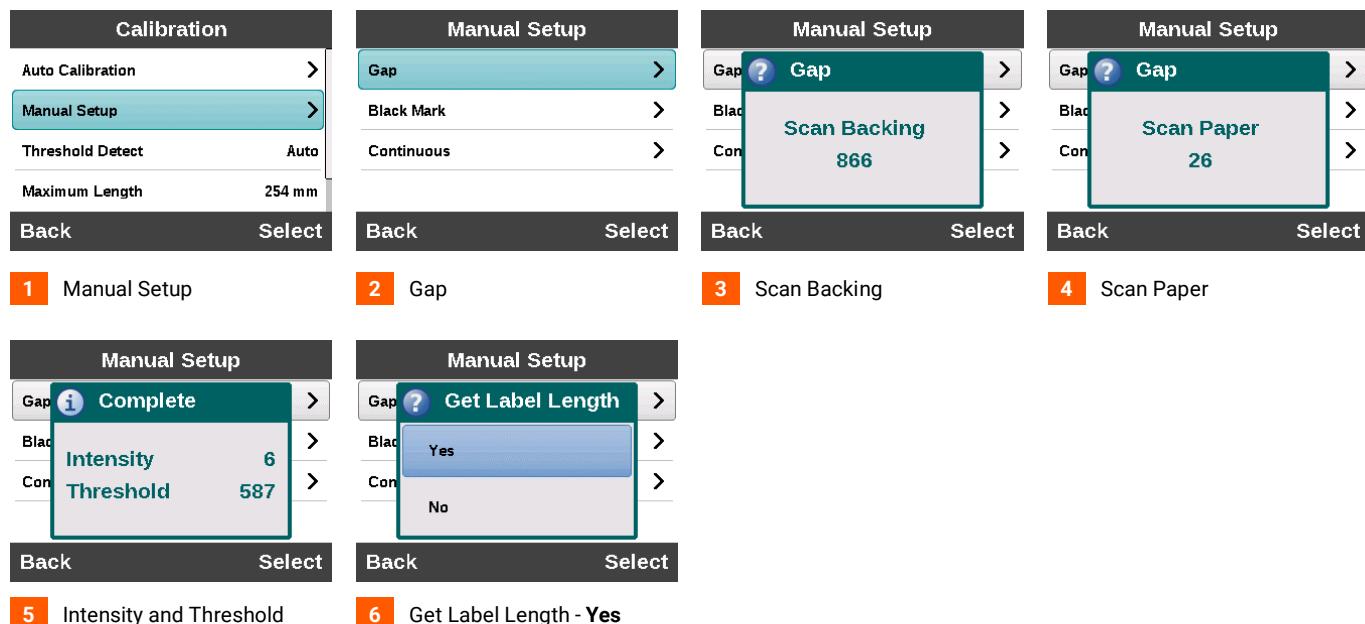


4.3.2 Manual Setup

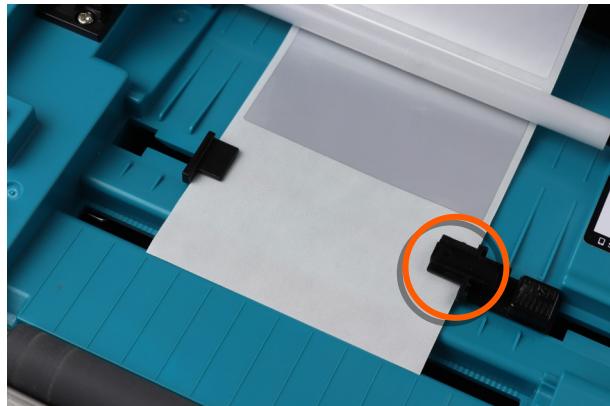
In case **Auto Calibration** does successfully detect your media, please use the **Manual Setup** function to calibrate the sensor sensitivity.

Gap

Calibrate the gap sensor on your media manually.



How to scan Backing?



Remove one label from the backing and place the backing under the gap sensor

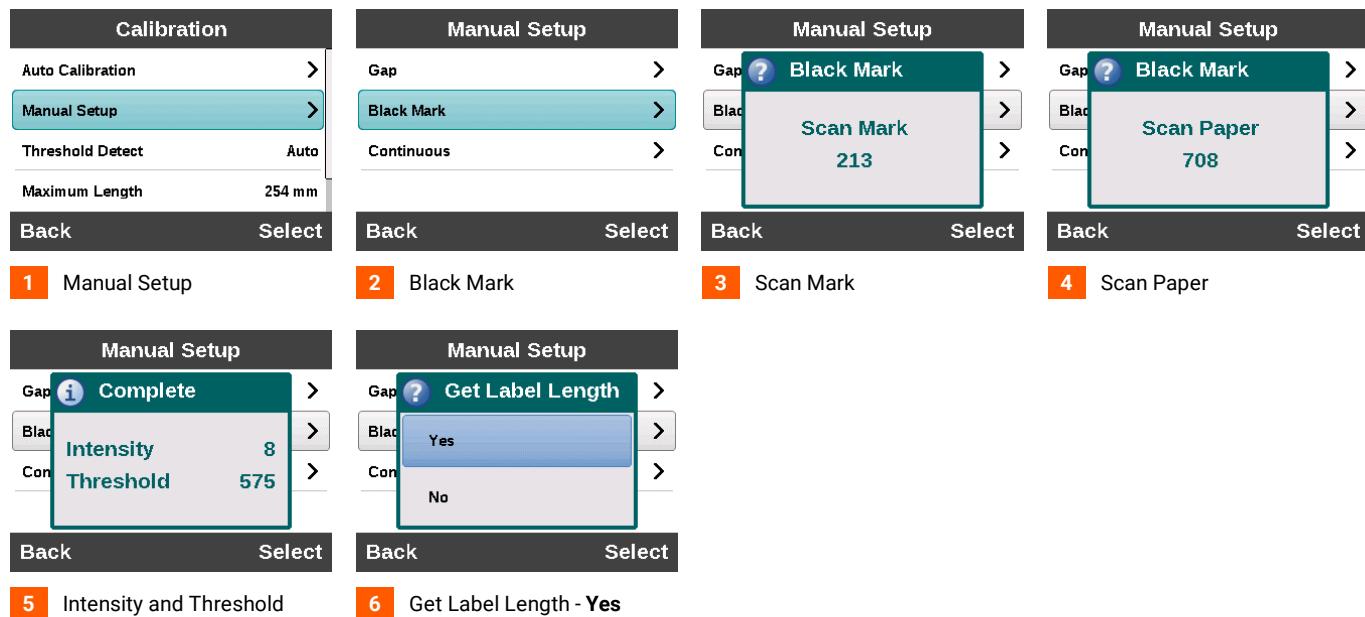
How to scan Paper?



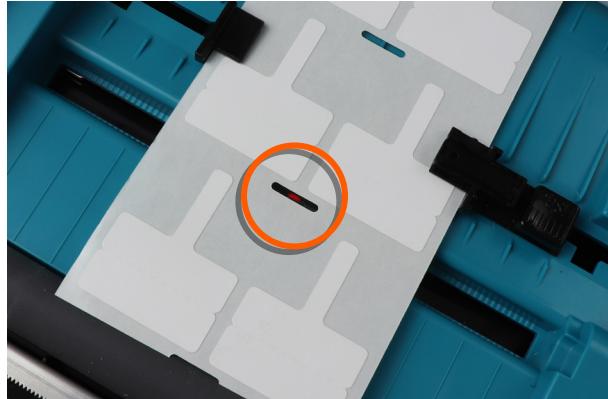
Place the media under the gap sensor

Black Mark

Calibrate the Black mark sensor on your media manually.



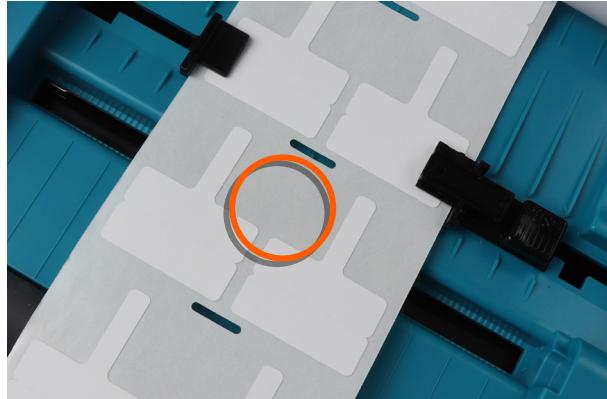
How to scan Mark?



Place the notch (or mark) exactly on the two round dots of the Black mark sensor.



How to scan Paper?



Place the backing of the media on the Black mark sensor

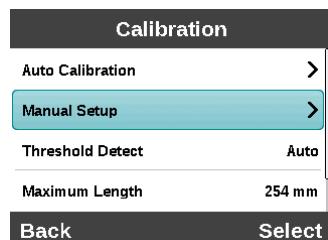


Media with black marks?

Place the black mark exactly on the Black mark sensor

Continuous

Calibrate the gap sensor on your continuous media manually.



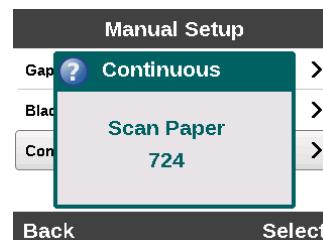
1 Manual Setup



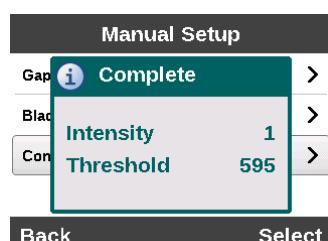
2 Gap



3 Remove Label

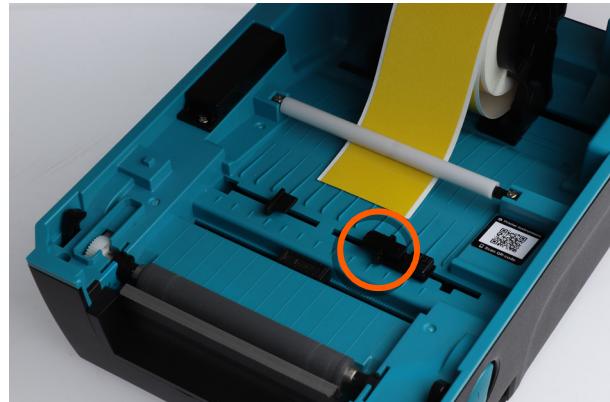


4 Scan Paper



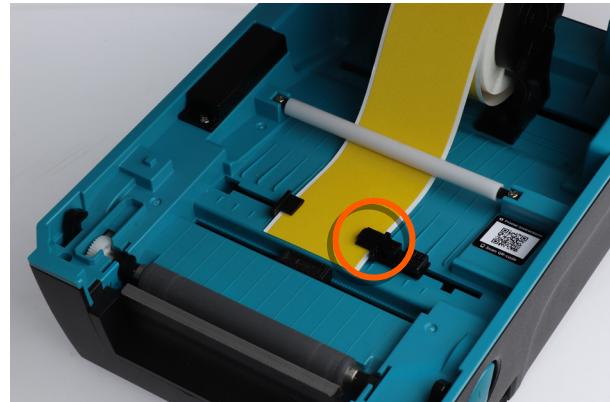
5 Intensity and Threshold

Remove label



Remove continuous media from the gap sensor

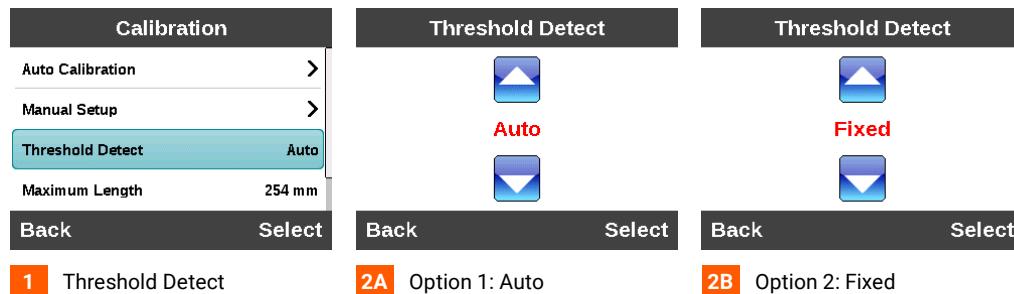
How to scan Paper?



Place continuous media under the gap sensor

4.3.3 Threshold detect

This option is used to set the sensor sensitivity to **fixed** or **auto** (default = auto).



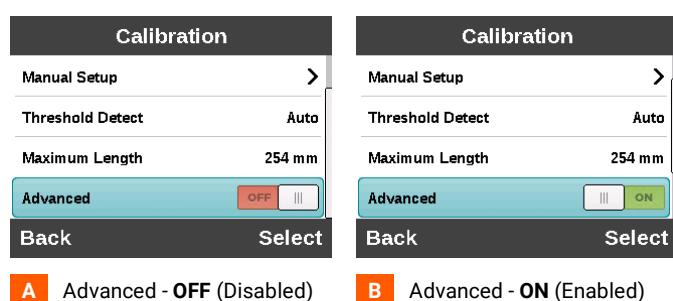
4.3.4 Maximum length

This option is used to set the maximum length for media calibration.



4.3.5 Advanced

Enable / Disable the advanced functions.



4.3.6 Minimum paper length (advanced)

Set the minimum paper length to auto-calibrate the sensor sensitivity.

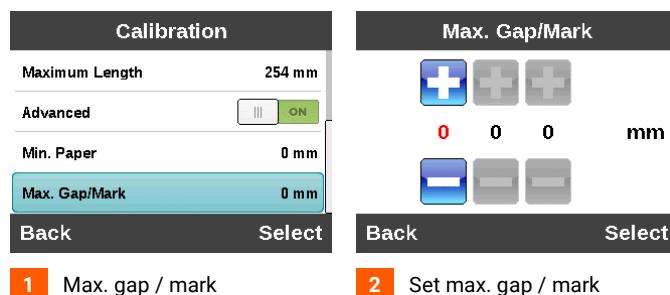


1 Min. Paper

2 Set min. paper length

4.3.7 Maximum paper length (advanced)

Set the maximum gap / black mark length to auto-calibrate the sensor sensitivity.



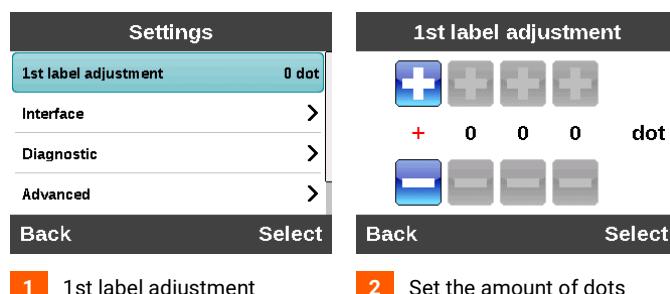
1 Max. gap / mark

2 Set max. gap / mark

4.4 Settings

4.4.1 1st label adjustment

This option is used to set the amount of dots to adjust the first label of the print job.



1 1st label adjustment

2 Set the amount of dots

Reference

ATP-300 Pro (300 DPI)
ATP-600 Pro (600 DPI)

1 mm = 12 dots
1 mm = 24 dots

4.4.2 Interface

This option is used to set the printer interface settings.

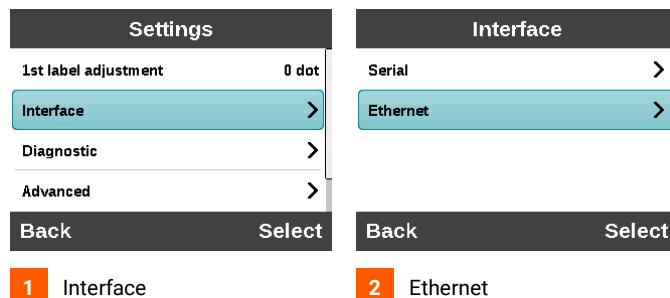
Serial

Set the baud rate, parity, data bits and stop bit(s).

Settings		Interface		Serial		Baud Rate	
1st label adjustment	0 dot	Serial	>	Baud Rate	9600 bps	Up	
Interface	>	Ethernet	>	Parity	None	9600 bps	Down
Diagnostic	>			Data Bits	8		
Advanced	>			Stop Bit(s)	1		
Back	Select	Back	Select	Back	Select	Back	Select
1	Interface	2	Serial	3A	Baud rate	4A	Set baud rate
				Serial		Parity	
				Baud Rate	9600 bps	Up	
				Parity	None	Even	Down
				Data Bits	8		
				Stop Bit(s)	1		
				Back	Select	Back	Select
				3B	Parity	4B	Set parity
				Serial		Data Bits	
				Baud Rate	9600 bps	Up	
				Parity	None	8	Down
				Data Bits	8		
				Stop Bit(s)	1		
				Back	Select	Back	Select
				3C	Data Bits	4C	Set data bits
				Serial		Stop Bit(s)	
				Baud Rate	9600 bps	Up	
				Parity	None	1	Down
				Data Bits	8		
				Stop Bit(s)	1		
				Back	Select	Back	Select
				3D	Stop Bit(s)	4D	Set stop bit(s)

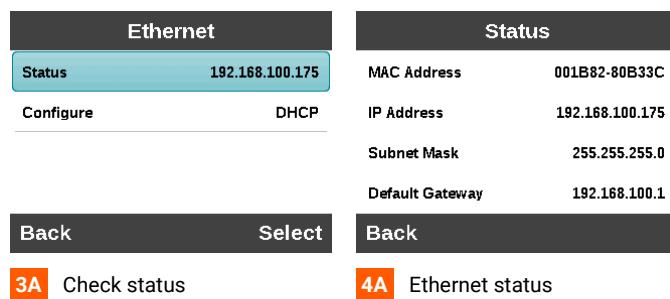
Ethernet

Use this menu to set the Ethernet configuration or check the Ethernet status.



Status

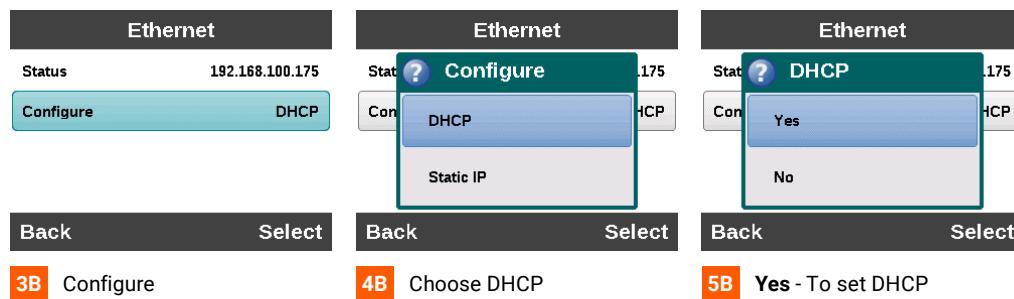
Check the Ethernet status.



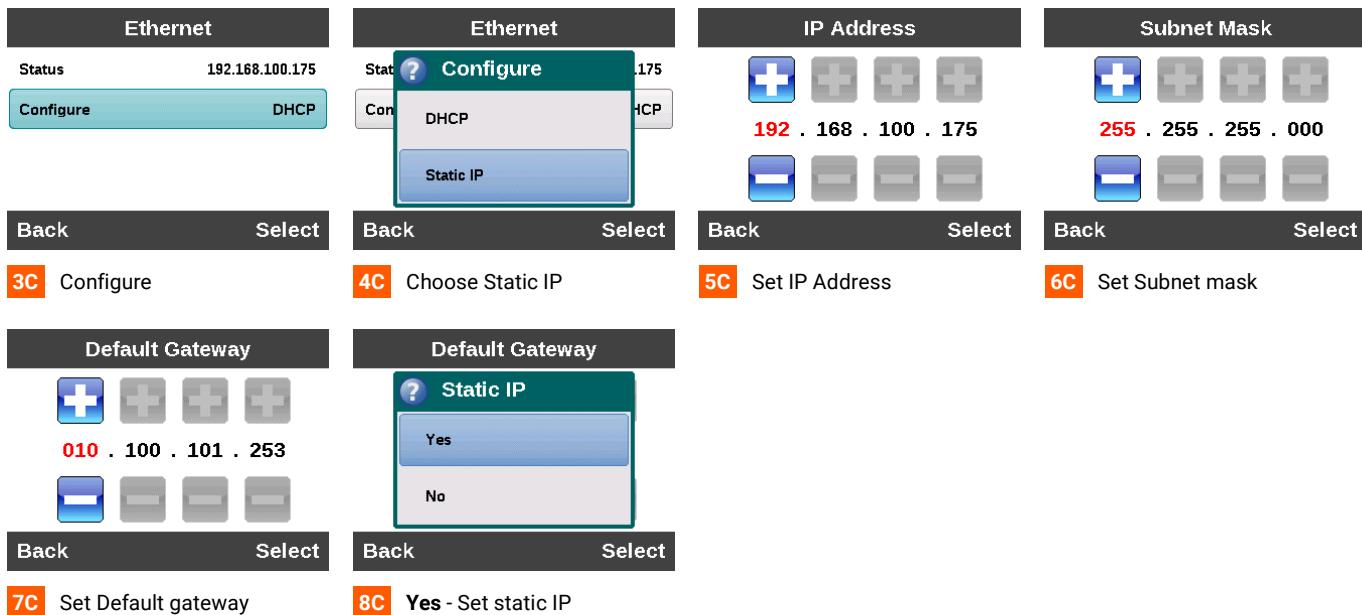
Configure

Ethernet configuration for DHCP or Static IP.

DHCP



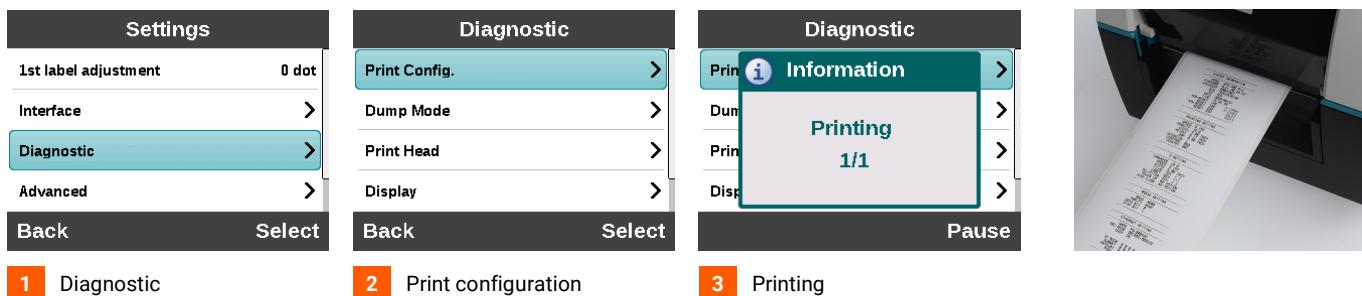
Static IP



4.4.3 Diagnostics

Print configuration

This feature is used to print the current printer configuration on the media.
Please use media with a minimum width of 50mm (preferably 100mm).



The printout contains the following information

System information

- Model
- Firmware
- Checksum
- S/N
- TCF
- Date
- Time
- TPH
- CUT
- Model name
- Firmware version
- Firmware checksum
- Printer serial number
- Configuration file
- System date
- System time
- Printed mileage
- Cutting counter

Printing settings

- Speed
- Density
- Width/Height
- Gap
- Intension
- Codepage
- Country
- Print speed (inch/s)
- Printing temperature
- Media size
- Gap distance
- Sensor intension
- Code page
- Country code

ZPL setting information

- Darkness
- Speed
- Width
- Tilde
- Caret
- Delimiter
- Power up
- Head close
- Print darkness
- Print speed (inch/s)
- Media size
- Control prefix
- Format prefix
- Delimiter prefix
- Power up motion
- Head close motion

Connection information

- RS-232
- Ethernet
- DRAM
- FLASH
- Baud, Parity, Data bit, Stop bit
- Name, MAC-address, IP-address, Subnet, Gateway, Port
- Numbers of download files + total and available memory space

Memory information

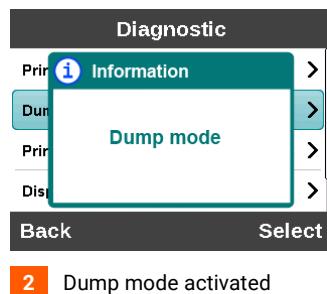
- DRAM
- FLASH
- Numbers of download files + total and available memory space

Dump mode

Captures the data from the communications port and prints out the data received by the printer. In the dump mode, all data will be printed in two columns. The left side characters are received from your system and the right side characters are the corresponding hexadecimal values of the characters. It allows users to verify and debug the data received by the printer. To leave dump mode, please restart the printer.



1 Dump mode

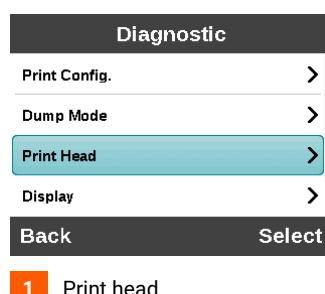


2 Dump mode activated

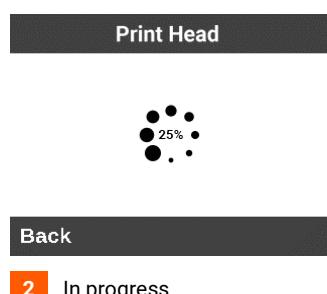


Print head

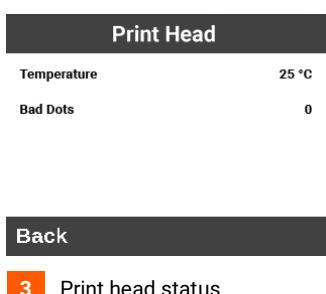
This feature is used to check the print head temperature, resistance and bad dots.



1 Print head



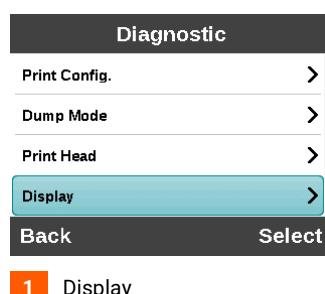
2 In progress



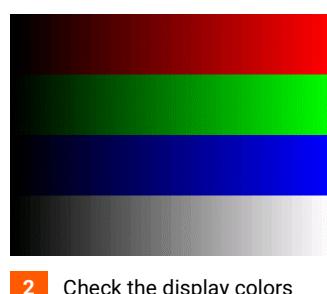
3 Print head status

Display

This feature is used to check the LCD's color state.



1 Display



2 Check the display colors

Sensor

This feature is used to check the media sensor state.

Diagnostic		Sensor		Gap	
Dump Mode	>	Gap	>		Intensity 8
Print Head	>	Black Mark	>		Reading 961
Display	>	Ribbon	>		
Sensor	>	Back Select		Back	
1 Sensor		2A Gap sensor		3A Check / Adjust gap sensor	
Sensor		Black Mark		Ribbon	
Gap	>	Black Mark	>		Intensity 8
Black Mark	>	Ribbon	>		Reading 932
Ribbon	>	Back Select		Back	
2B Black mark sensor		3B Check / Adjust black mark sensor			
2C Ribbon sensor		3C Check / Adjust ribbon sensor			

4.4.4 Advanced

This feature is used to set the LCD display brightness, date & time, language and sound.

Display brightness

Set the LCD display brightness

Settings		Advanced		Display Brightness	
1st label adjustment	0 dot	Display Brightness	50		
Interface	>	Date & Time	>		
Diagnostic	>	Language	English		
Advanced	>	Sound	OFF		
Back	Select	Back	Select	Back	Select
1 Advanced		2 Display brightness		3 Set the display brightness	

Date & Time

Set date, time and time format.

Settings		Advanced		Date & Time		Date Format	
1st label adjustment	0 dot	Display Brightness	50	Date Format	YYYY/MM/DD		YYYY/MM/DD
Interface	>	Date & Time	>	Time Format	12 Hour		
Diagnostic	>	Language	English	Date	2007/01/08		
Advanced	>	Sound	OFF	Time	00:54:17		
Back	Select	Back	Select	Back	Select	Back	Select
1 Advanced		2 Date & Time		3A Date format		4A Set Date format	
				Date & Time		Time Format	
				Date Format	YYYY/MM/DD		12 Hour
				Time Format	12 Hour		
				Date	2007/01/08		
				Time	00:54:07		
				Back	Select	Back	Select
				3B Time format		4B Set time format	
				Date & Time		Date	
				Date Format	YYYY/MM/DD		2020 - 02 - 21
				Time Format	12 Hour		
				Date	2007/01/08		
				Time	00:53:51		
				Back	Select	Back	Select
				3C Date		4C Set date	
				Date & Time		Time	
				Date Format	YYYY/MM/DD		02 : 24 : 24
				Time Format	12 Hour		
				Date	2007/01/08		
				Time	00:53:57		
				Back	Select	Back	Select
				3D Time		4D Set time	

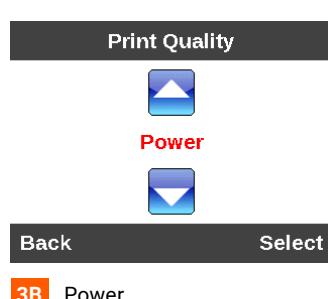
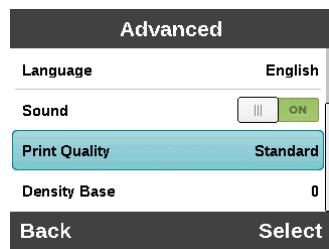
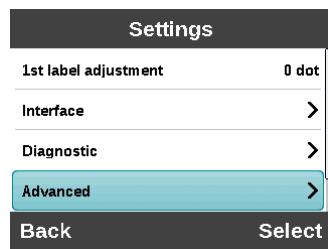
Language

Set the language of the printer to English, German, Dutch or French.

Settings		Advanced		Language	
1st label adjustment	0 dot	Display Brightness	50	English	<input checked="" type="checkbox"/>
Interface	>	Date & Time	>	Deutsch	<input type="checkbox"/>
Diagnostic	>	Language	English	Nederlands	<input type="checkbox"/>
Advanced	>	Sound	OFF	Français	<input type="checkbox"/>
Back	Select	Back	Select	Back	Select
1 Advanced		2 Language		3 Set a language	

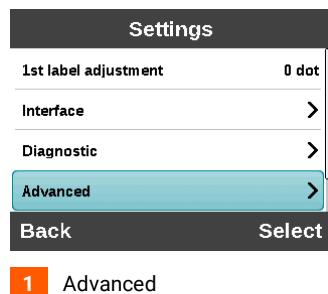
Print Quality (ATP-600 Pro only)

Set the print quality to Standard or Power mode. Power mode improves the print quality on specific label materials. This setting is only available on the ATP-600 Pro.



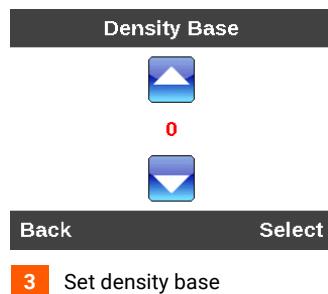
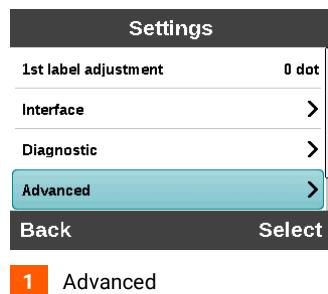
Sound

Turn the printer sound on or off.



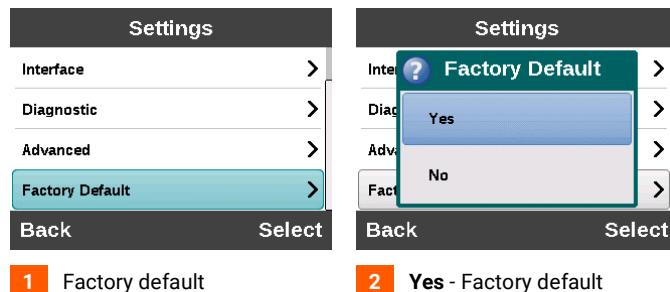
Density base

Increase or decrease the base density. Use this functionality only at the request of Altec.



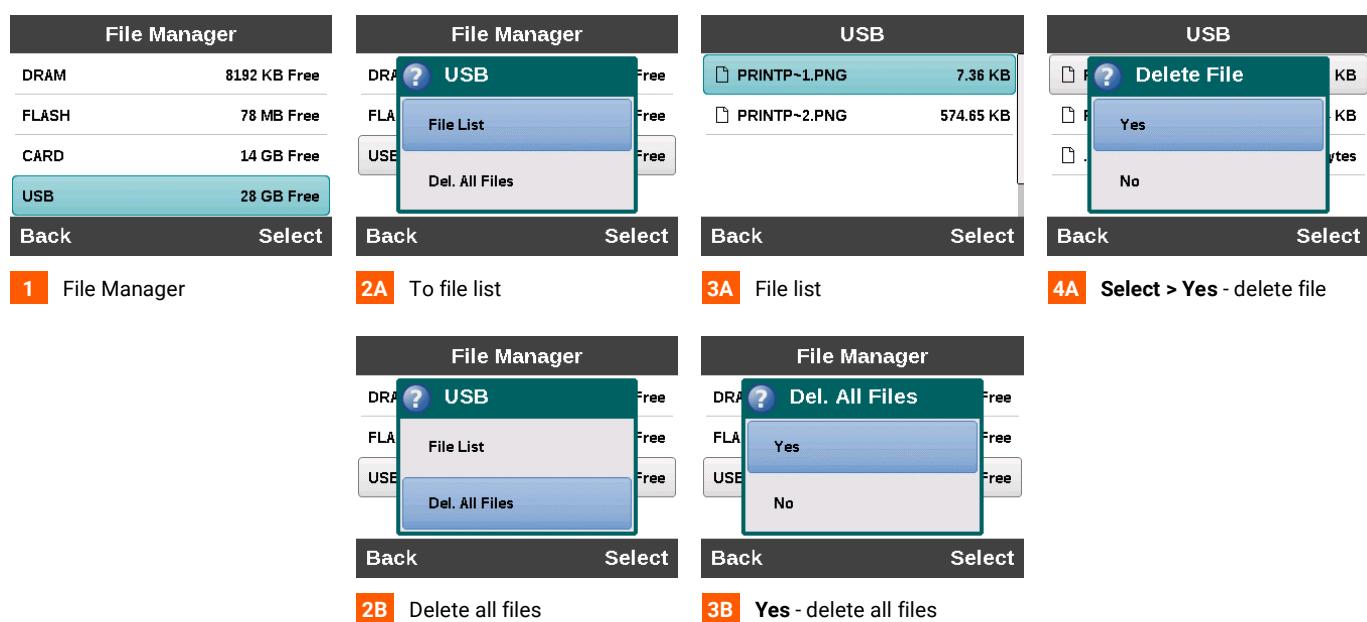
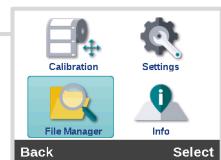
4.4.5 Factory default

Initialize the printer and restore the settings to factory default.



4.5 File manager

This feature is used to check the printer available memory and file list on **DRAM**, **FLASH**, **CARD** and **USB**. Show, delete and run (.BAS) files saved on the memory device.



4.6 Info

This menu feature provides printer information, contact details and QR-codes to instruction videos.



4.6.1 Instruction videos

Scan the QR-codes on the LCD display to view instruction videos on your smartphone.

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #333; color: white; padding: 2px;">Info</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">Instruction Videos ></td> </tr> <tr> <td style="padding: 2px;">Printer Info ></td> </tr> <tr> <td style="padding: 2px;">Contact Details ></td> </tr> <tr> <td style="text-align: left; padding: 2px;">Back Select</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #333; color: white; padding: 2px;">Instruction Videos</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">Installing Labels ></td> </tr> <tr> <td style="padding: 2px;">Installing Ribbon ></td> </tr> <tr> <td style="padding: 2px;">Cleaning Platen Roller ></td> </tr> <tr> <td style="padding: 2px;">General Maintenance ></td> </tr> <tr> <td style="text-align: left; padding: 2px;">Back Select</td> </tr> </tbody> </table> <table border="1" style="width: 100%; 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4.6.2 Printer info

View printer info: serial number, mileage, printed labels and cutting counter.

Info		Printer Info	
Instruction Videos	>	Serial No.	TX319370130
Printer Info	>	Mileage (m)(m.)	136
Contact Details	>	Labels (pcs.)	1919
		Cutting Counter	232
Back	Select	Back	

1 Printer info

2 View printer info

4.6.3 Contact details

View the contact details of ALTEC industrial identification.

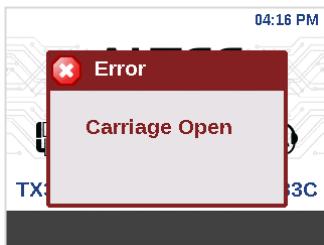
Info		Contact Details	
Instruction Videos	>		
Printer Info	>	Nederland	
Contact Details	>	T. +31 (0)78 615 20 33 • www.altec.nl	
		België / Belgique	
		T. +32 (0)2 270 34 88 • www.altec.be	
Back	Select	Back	

1 Contact details

2 View contact details

4.7 Errors and messages

Carriage open



The top cover of the printer is open. Make sure the top cover is closed properly.

Please calibrate the printer



This error can mean the following:

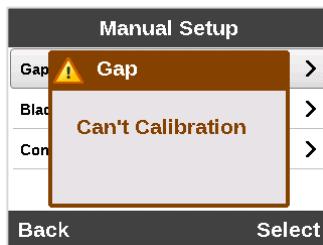
- **Out of media**
Install new roll of media ([3.3.1](#))
- **No media**
Install (new) roll of media ([3.3.1](#))
- **Check sensor type**
[Go to chapter 3.3.2](#)
- **Calibration required**
[Go to chapter 4.3](#)

No Ribbon



No ribbon installed or the ink ribbon has run out. [Go to chapter 3.2.](#)

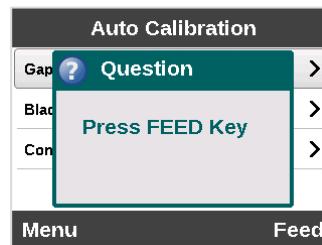
Can't calibrate



A problem has occurred while calibrating your media.

[Please follow the steps in chapter 4.3.](#)

Question



Press the feed button on the printer to feed the media.

5 Printer Web Interface

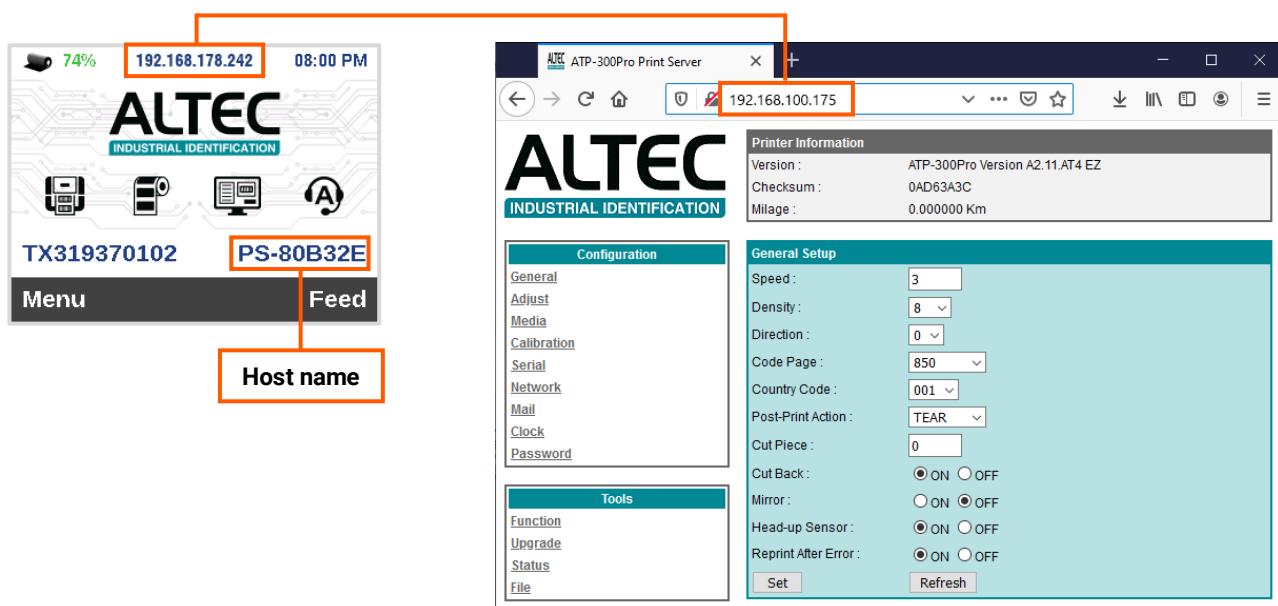
The ATP-300/600 Pro can be accessed via a web browser if it is connected with an Ethernet cable. In this menu you can access printer information and change settings.

5.1 Accessing the Printer Web Interface

Open a web browser and enter the **IP address** (or host name) of the printer in the address bar.

Important the web interface can only be accessed if the printer is connected with an Ethernet cable

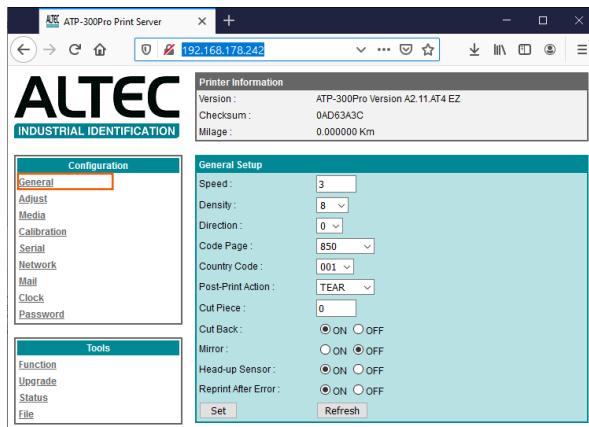
You can find the **IP address** and **host name** on the LCD display of the printer.



5.2 Configuration

General

Change general printer settings



Speed

Printer speed (1.5 – 6 inch/s)

Density

Printing temperature (0 - 15)

Direction

Print direction (0 or 1)

Code Page

Keyboard country code

Post-Print action

TEAR / PEAL / CUTTER / OFF

Cut Piece

Cut after "X" labels

Cut Back

Return media after cutting

Mirror

Mirrored printing

Head-up Sensor

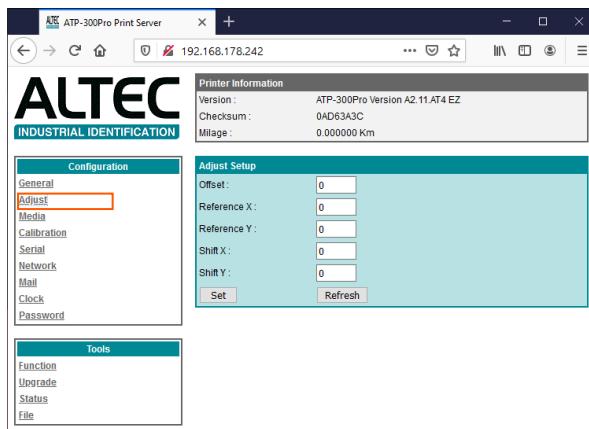
Top cover open/closed check

Reprint After Error

Reprint last label after error

Adjust

Set the print and tear-off position



Offset

Adjust tear-off position

Reference X / Y

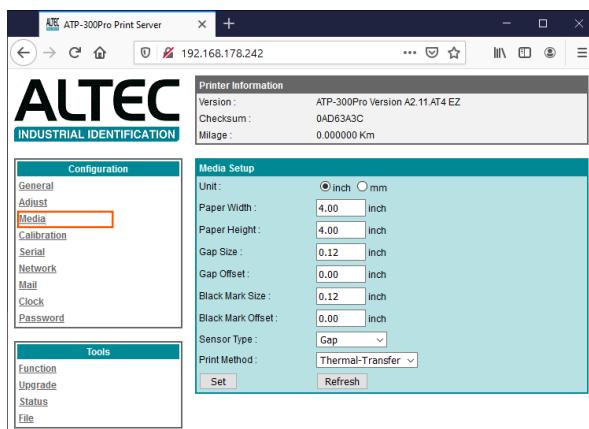
Adjust print and tear-off position

Shift X / Y

Adjust print position

Media

Label and printer sensor settings



Unit

Set unit to inch or mm

Paper width

Media width in millimeters

Paper height

Media height in millimetres

Gap Size

Gap size (height) in millimeters

Gap Offset

Offset distance in millimetres

Black Mark Size

Black Mark size (height) in millimeters

Black Mark Offset

Offset distance in millimetres

Sensor Type

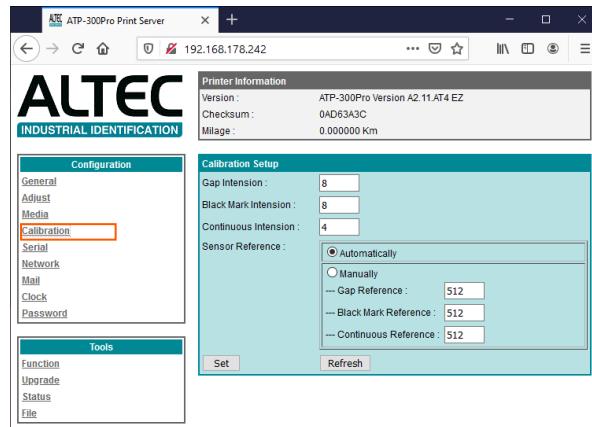
Gap / Black mark / Continuous

Print Method

Thermal-Transfer / Direct thermal

Calibration

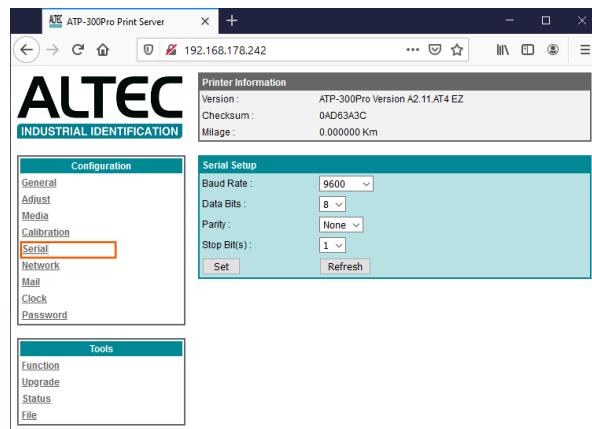
Change calibration settings



Advanced settings for the sensor intension and sensor reference.

Serial

Port settings for serial connection (RS232)

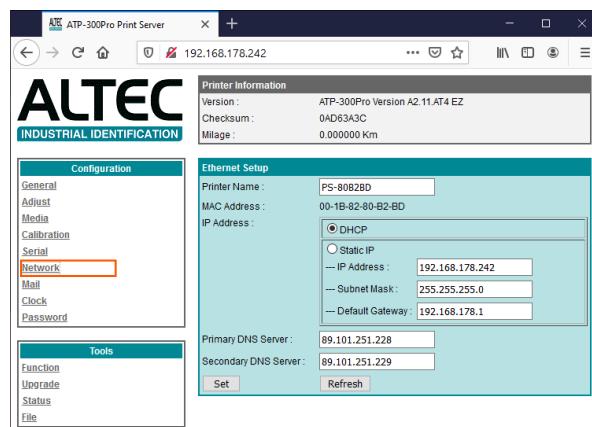


Port settings for the RS232 serial port

- Baud rate
- Data bits
- Parity
- Stop bit(s)

Network

Apply network settings



Printer Name

Host name of the printer

Static value (can't be changed)

DHCP Dynamic (auto)

Static IP Set IP Address, Subnet Mask and Default Gateway

Please do not change this setting.

IP Address

Static value (can't be changed)

IP Address

Dynamic (auto)

DNS Server

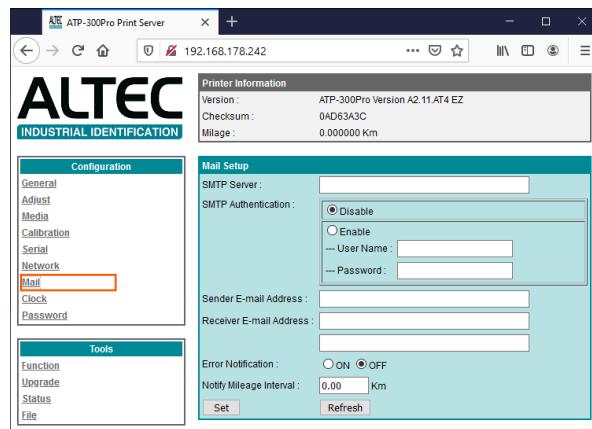
Note:

Changes may have effect on the web interface.

Please Enter the (new) IP address again in your browser.

Mail

Notifications to e-mail



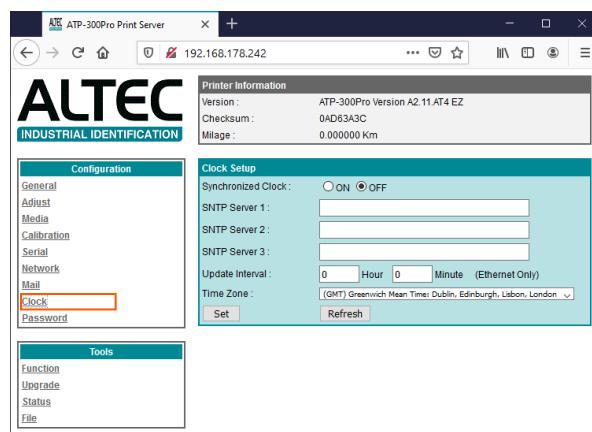
Set up e-mail notifications for errors.

Error notifications

Carriage open, Over heat, Paper jam, Paper empty,
Ribbon error and Cutter error

Clock

Set up internal clock

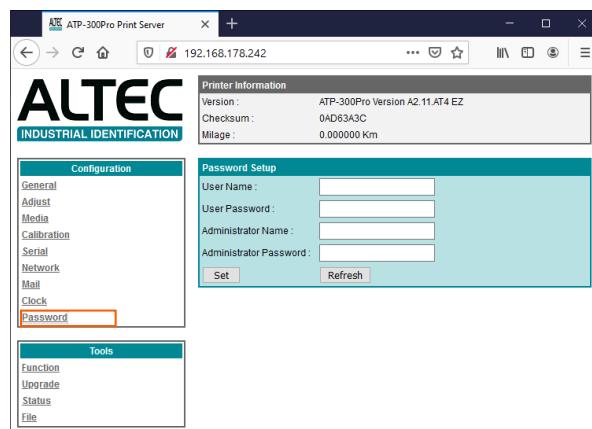


Synchronise the internal printer clock with time servers.

Specify SNTP Servers, update interval and time zone.

Password

Protect printer settings

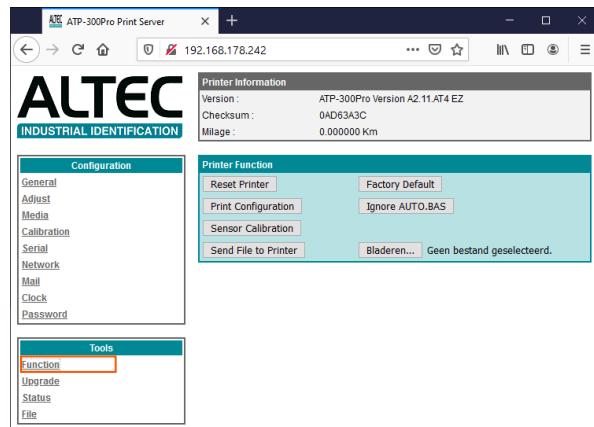


Create passwords for the **User** and **Administrator** account.

5.3 Tools

Function

These functions are performed directly on the printer.



Reset Printer

Restart the printer. Use this function when an error occurs.

Factory Default

Reset all printer settings back to the default factory values.

Print Configuration

Print a test page with all current printer settings.

Please use media with a minimum width of 50mm (preferably 100mm).

Ignore AUTO.BAS

Restart the printer without a loaded (.bas) program.

Sensor Calibration

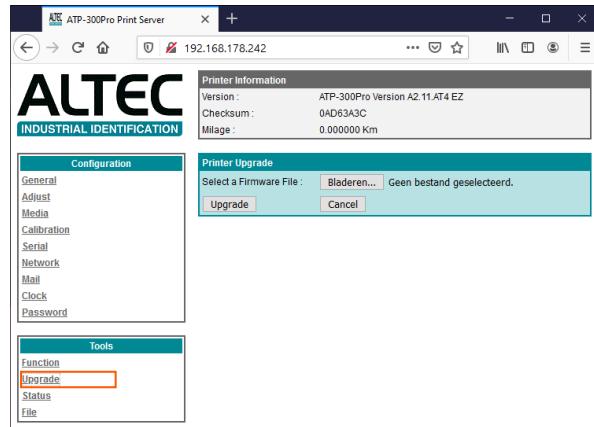
Calibrate the printer with current calibration settings.

Send File to Printer

Send a file to the printer memory (via 'Browse...').

Upgrade

Upgrade printer firmware



Upgrade the printer firmware

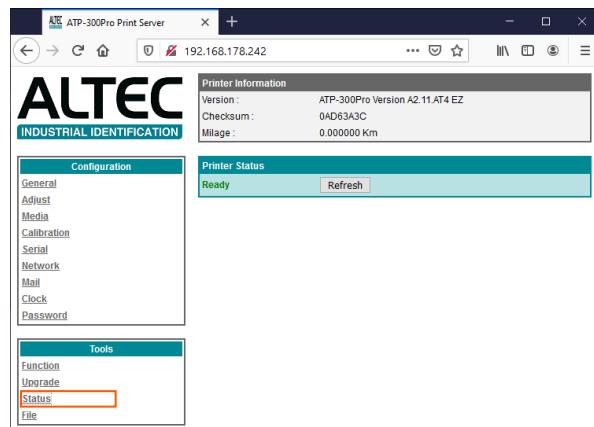
Use the 'Browse...' button to select a firmware file and click **Upgrade** to send it to the printer.

Important

Upgrade the printer firmware only upon request of Altec.

Status

Actual printer status



This shows the current status of the printer.

The **Refresh** button reloads the status.

Green notifications (ready)

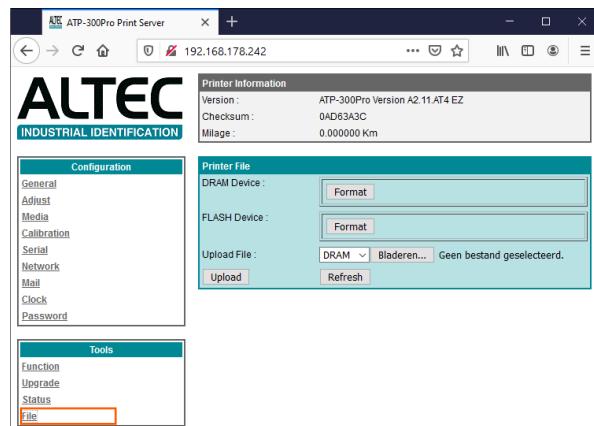
Ready, Printing

Red notifications (errors)

Pause, Out of Memory, Carriage Open, Over Heat, Paper Jam, Paper Empty, Ribbon Error, Cutter Error

File

Manage files on your printer



Format DRAM / FLASH Device

Delete all files on DRAM / FLASH device.

Upload File

Upload a file via 'Choose file...' and select DRAM or FLASH memory.

6 Printer management tool (TPM)



The **Printer management tool (TPM)** is a tool for Microsoft Windows to manage the ATP-300/600 Pro printer. With TPM you can:

- Check the printer status
- Configure printer settings
- Manage multiple printers

To download this tool on your PC, use the following link:

https://www.altec.nl/fileadmin/user_upload/Support_downloads/Tools/Printer_management_tool.exe

6.1 TPM overview

Status	Printer	IP Address	Model	Version	Serial No	Mileage	Interface	Batt. Capacity	Batt. Life
	ATP-300Pro		ATP-300Pro	A2.11.AT4 EZ	TX3194800...	0.0001			
	ATP-300Pro	192.168.10...	ATP-300Pro	A2.11.AT4 EZ	TX3194800...	0.0061			

- | | | |
|--|---------------------|--------------------|
| 1. Select printer(s) | 5. Model | Printer model name |
| 2. Printer status | 6. Version | Firmware version |
| Printer is ready | 7. Serial No | Serial number |
| Error | 8. Mileage | Printed mileage |
| 3. Printer Printer name | 9. Interface | USB / Ethernet |
| 4. IP Address When using Ethernet | | |

6.2 Printer settings

6.2.1 Printer configuration

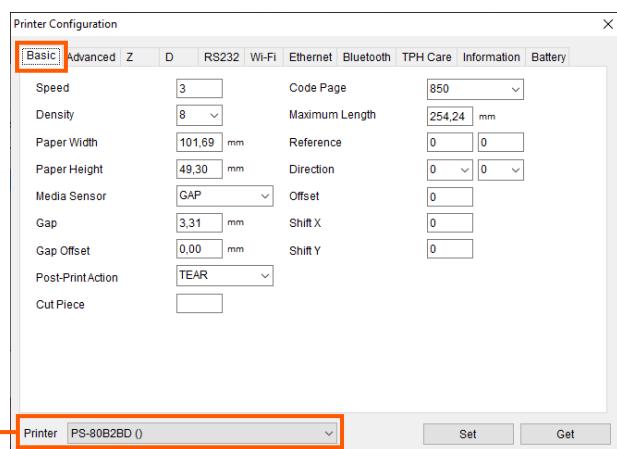
Select the printer(s) in the list and click on **Printer Configuration**.



Basic

Apply basic settings to one or all printer(s).

Note: these settings might be overruled by label software.



Speed	Print speed (1 – 6 inch/s)
Density	Printing temperature (0 - 15)
Paper width	Media width in millimeters
Paper height	Media height in millimeters
Media Sensor	Gap / Black mark / Continuous
Gap	Gap size (height) in millimeters
Gap Offset	Offset distance in millimeters
Post-Print action	TEAR / PEAL / CUTTER / REWINDER / OFF
Cut Piece	Cut after "X" labels
Code Page	Keyboard country code
Maximum Length	Maximum label detection length
Reference	Adjust print and tear-off position
Direction	Print direction (0 or 1)
Offset	Adjust tear-off position
Shift X / Y	Adjust print position

Printer selection

Select the printer(s) you want to apply the settings. This can be a specific printer or all printers.



Advanced

Apply advanced settings to one or all printer(s).

Printer Configuration

Basic Advanced Z D RS232 Wi-Fi Ethernet Bluetooth TPH Care Information Battery

Gap Inten. 3 Head-up Sensor ON
Black mark Inten. 8 Reprint After Error ON
Continuous Inten. 4 Ribbon ON
Threshold Detection AUTO Ribbon Sensor ON
Country Code 001 Ribbon Encoder Err. ON
Print Quality
Stand By Time secs (1-65534 0: off)
Sleep Time mins (10-65534 0: off)

Printer PS-80B2BD () Set Get

Gap Inten.

Gap sensor intensity

Black mark inten.

Black mark intensity

Continuous inten.

Continuous intensity

Threshold Detection

N/A for ATP-300/600 Pro

Country Code

Keyboard country code

Head-up Sensor

Top cover open/closed check

Reprint After Error

Reprint last label after error

Ribbon

Turn ribbon use on/off

Ribbon Sensor

Turn ribbon sensor on/off

Ribbon Encode Err.

Ink ribbon speed detection

Print Quality

N/A for ATP-300/600 Pro

Stand By Time

N/A for ATP-300/600 Pro

Sleep Time

N/A for ATP-300/600 Pro

Z / D configuration

Z: Use these settings when sending ZPL language to the printer.

Printer Configuration

Basic Advanced Z D RS232 Wi-Fi Ethernet Bluetooth TPH Care Information Battery

Darkness 16 0 to 30 Media Power Up No Motion
Print Speed 3 Head Close No Motion
Tear Off 0 -120 to 120 Label Top 0 -120 to 120
Print Mode TEAR Left Position 0 -9999 to 9999
Print Width 101.69 mm
Control Prefix ~
Format Prefix ^
Delimiter Char ,

Printer PS-80B2BD () Set Get

D: These functionalities are not available for ATP-300/600 Pro.

Printer Configuration

Basic Advanced Z D RS232 Wi-Fi Ethernet Bluetooth TPH Care Information Battery

Heat 0 to 30
Print Speed
Label Width mm
Present Sensor
Cutter Equipped
Control Codes
Column Offset mm
Row Offset mm

Printer PS-80B2BD () Set Get

RS232 (serial port)

Printer Configuration

Basic Advanced Z D RS232 Wi-Fi Ethernet Bluetooth TPH Care Information Battery

Baud Rate 9600
Data Bits 8
Parity None
Stop Bit(s) 1

Printer PS-80B2BD () Set Get

Port settings for the RS232 serial port

- Baud rate
- Data bits
- Parity
- Stop bit(s)

Wi-Fi

Printer Configuration

Basic Advanced Z D RS232 **Wi-Fi** Ethernet Bluetooth TPH Care Information Battery

SSID: [] EAP Type: []

Encryption: [] Username: []

Key: [] Password: []

DHCP: [] CA Certificate: [] File name: [] Browse

IP Address: [] Client Certificate: []

Subnet Mask: [] Private Key: []

Gateway: [] EAP-FAST PAC: []

Printer Name: []

RAW Port: []

MAC Address: [] RSSI: []

Wi-Fi Version: [] Advanced

New Wireless Settings will only be applied after "Set" button is clicked and Printer Configuration window is closed. After that, printer will restart automatically.

Printer: PS-80B2BD () Set Get

Settings for the (optional) Wi-Fi module

The optional Wi-Fi module can be requested from Altec.

Ethernet

Printer Configuration

Basic Advanced Z D RS232 **Ethernet** Wi-Fi Bluetooth TPH Care Information Battery

(DHCP) (Static IP)

IP: 192.168.178.242 Printer Name: PS-80B2BD

Subnet Mask: 255.255.255.0 Set Printer Name

Gateway: 192.168.178.1

MAC Address: 00-1B-82-80-B2-BD

Set IP RAW Port: 9100 Set RAW Port

Printer: PS-80B2BD () Set Get

Settings for Ethernet connection

DHCP

Set printer name and RAW port

Static IP

Set (static) IP address, Subnet mask, Default gateway.
MAC address can not be changed.

Bluetooth

Printer Configuration

Basic Advanced Z D RS232 Wi-Fi Ethernet **Bluetooth** TPH Care Information Battery

(Built-in module) (External module)

Bluetooth Local Name: [] BT MAC Address: []

Bluetooth PIN Code: [] BT Software: []

Without PIN Code

Device Name: [] MAC Address: []

MAC Address: []

Set the printer to Bluetooth Master Scan Bluetooth device

Printer: PS-80B2BD () Set Get

Settings for the (optional) Bluetooth module

The optional Bluetooth module can be requested from Altec.

TPH Care

This screenshot shows the Printer Configuration software interface. The 'TPH Care' tab is highlighted with a red box. Below it, there are sections for 'TPH Care Auto Protection' and 'Unhealthy TPH dot number' (warning condition). At the bottom are buttons for 'Get TPH care profile', 'TPH Test Page', 'Set', and 'Get'. A dropdown menu shows 'PS-80B2BD ()'.

These settings are not available for the ATP-300/600 Pro.

Information

This screenshot shows the Printer Configuration software interface. The 'Information' tab is highlighted with a red box. It displays printer details like Version (ATP-300Pro Version: A2.11.AT4 EZ), serial number (TX319480062), cutting counter (0), printer status (Ready), mileage (0.0001 km), and other metrics. At the bottom are buttons for 'Set' and 'Get'.

Overview of ATP-300/600 Pro printer information

Cutting counter / Mileage (km) can be reset here.

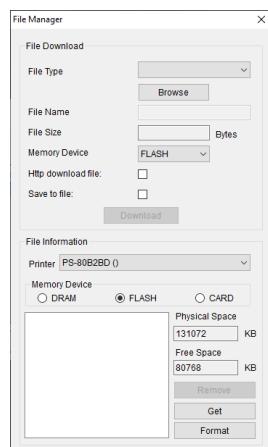
Battery

This screenshot shows the Printer Configuration software interface. The 'Battery' tab is highlighted with a red box. It lists battery-related information such as Serial Number, Current Voltage (V), Capacity in Percentage (%), Temperature (*C), Charged Times (times), Manufacture Date, and Healthy Status. At the bottom are buttons for 'Set' and 'Get'.

These settings are not available for the ATP-300/600 Pro.

6.2.2 File manager

Send files to the printer using **File manager**.



File Type

BMP (*.bmp), PCX (*.pcx), True Type Font, Bitmap fonts, Printer BASIC File (*.bas), Data File, Firmware File (*.new / *.rom), TCF File (*.tcf) and RAW Data

File name

Name of the loaded file

File size

Size of the loaded file in Bytes

Memory Device

DRAM, FLASH (default) or CARD

Download

Send file to the printer

File information

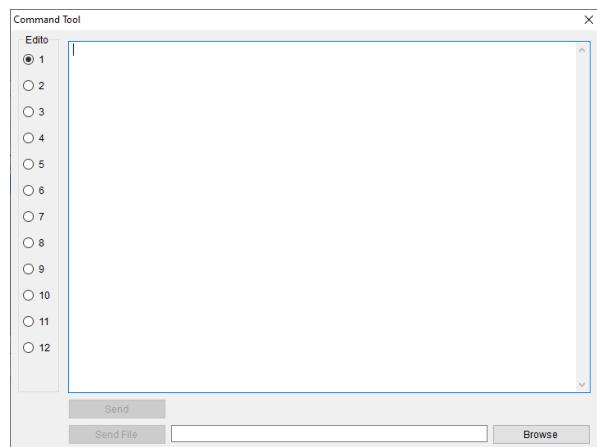
Get: retrieve a list of the files on DRAM / FLASH / CARD

Then you can select files and remove (delete) them.

Format: delete all the files in the specified memory

6.2.3 Command tool

Send commands using printer language to the printer with the **Command tool** function.



Put your command (printer language) in the white area.

Note Always close the command with an Enter (carriage return)

Send

Send the command to the printer

Send File

Load file and send it to the printer

6.2.4 RTC Setup

Send the system time to the printer.

The screenshot shows the 'RTC Setup' tab selected in a menu bar. Below it is a configuration window titled 'RTC Setup'. It displays the current system time as 2020-03-26 09:41:49. There are two sets of time inputs: one for the printer itself (PS-80B2BD) and one for the system. A blue button labeled 'Set to System Time' is at the bottom.

Click on **Set to System Time** to set the printer clock equal to the clock on your computer.

6.2.5 Printer function

These functions are performed directly on the printer.

The screenshot shows the 'Printer Function' tab selected in a menu bar. To its left is a sidebar with ten numbered buttons. The main area contains five numbered sections:

- 1 | Calibrate**: A sub-menu for calibrating sensors. It includes options for GAP, Black Mark, Continuous, and Auto Selection, along with input fields for Paper Height and Gap.
- 2 | Reset Printer**: Instructions to restart the printer when an error occurs.
- 3 | Factory default**: Instructions to reset all printer settings back to factory values.
- 4 | Print Test Page**: Instructions to print a test page with current media settings.
- 5 | Configuration Page**: Instructions to print a test page with all current printer settings.
- 6 | Ignore AUTO.BAS**: Instructions to restart the printer without a loaded (.bas) program.

7 | Exit Line Mode / 8 | Exit Line Mode

To be used with ZPL.

9 | Wi-Fi Default

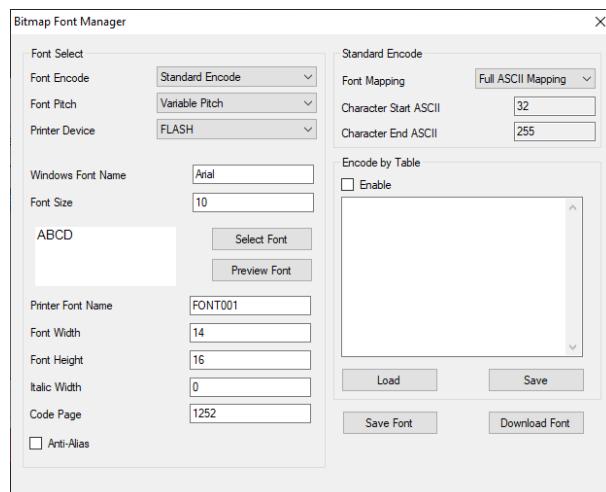
Reset Wi-Fi settings back to default.

10 | Dump Text

Sets the printer to dump mode. Reset the printer to leave dump mode.

6.2.6 Bitmap Font Manager

Load bitmap fonts into the printer.



In **Bitmap Font Manager** you can load fonts into the printer.

This is sometimes used for **stand-alone** printing solutions

6.3 Program settings

6.3.1 Users

Printer Management 2.35

Group Name: All **Users** Alert Group Setup Manual Name Language English

Users

User ID: [] Password: []

Permission: Admin Wi-Fi advanced modifier

Add Modify Remove

Create users within the Printer Management tool.

6.3.2 Alert

Printer Management 2.35

Group Name: All **Alert** Group Setup Manual Name Language English

Alert

Enable 2020/03/26 09:43:51 ~ 2020/03/26 09:43:51

Ready

Printing

Pause

Head Open

Paper Jam

Out of Paper

Ribbon Encoder Err.

Out of Ribbon

Other Error

Group: []

Time | Printer | Alert Content

Field separator: TAB Caracter (ASCII 09) | Export | Clear

Line separator: CR LF (ASCII 0D 0A) |

Send notifications (alerts) to users when the status of certain printer(s) - or printer groups - has changed.

6.3.3 Group

The screenshot shows the 'Printer Management 2.35' software interface. At the top, there are tabs: 'Users', 'Alert', 'Group' (which is highlighted with a red box), 'Setup', and 'Manual Name'. On the right, a language selection dropdown is set to 'English'. Below the tabs, there's a 'Group' configuration window. It contains fields for 'Group Name' (set to 'All'), 'First IP Address', 'Last IP Address', 'Interface' (radio buttons for 'Not specify', 'Net', and 'USB'), and 'Model Name' (checkboxes for 'Not specify' and 'ATP-300Pro'). At the bottom of this window are 'Add', 'Modify', and 'Remove' buttons, and a table with columns 'Group Name', 'IP Address', 'Model Name', and 'Interface'. A second window titled 'Set up printer group' is open, showing the text: 'Here you can set up groups of printers. This way you can change settings in the Printer Management Tool and apply them directly to all printers in the group.' To the right of this text is another screenshot of the software interface, where the 'Group' tab is selected and the 'Group Name' dropdown is set to 'All'. A table below shows a single entry for 'ATP-300Pro'.

6.3.4 Setup

The screenshot shows the 'Printer Management 2.35' software interface with the 'Setup' tab selected (highlighted with a red box). The top navigation bar includes 'Users', 'Alert', 'Group', 'Setup' (selected), and 'Manual Name'. The language is set to 'English'. Below the tabs, there's a 'Setup' configuration window. It contains sections for 'Run at Windows startup' (OFF), 'Support Main UI Download' (OFF), 'Auto search for network' (ON), 'Discover Device' (Auto), 'Show offline printer' (ON), and a 'Battery Management System' section with checkboxes for 'Display Batt. Capacity' (checked) and 'Warning If Battery Capacity is <= 20' (unchecked). There are also 'Setting Export' and 'Setting Import' buttons. To the right, a text box says 'Change general program settings.'

6.3.5 Manual name

The screenshot shows the 'Printer Management 2.35' software interface with the 'Manual Name' tab selected (highlighted with a red box). The top navigation bar includes 'Users', 'Alert', 'Group', 'Setup', and 'Manual Name' (selected). The language is set to 'English'. Below the tabs, there's a 'Manual Name' configuration window. It shows a table with columns 'Printer Name' (PS-80B2BD), 'Model Name' (ATP-300Pro), and 'Manual Name' (an empty input field). To the right, a text box explains: 'In Manual Name you can set a (alternative) printer name. This name will only be used in the Printer Management tool.'

7 Cleaning

To keep your printer in optimal condition, it is recommended to clean the printer:

- when the platen roller is visibly soiled
- after each used roll of ink ribbon

7.1 Cleaning the printer



1. Open the top cover of the printer by pulling the **green levers** - located on each side of the printer - and lifting the top cover to the maximum open angle.



2. Get a **Cleaning Wipe** and remove it from the package.

Remove all visible dust and dirt inside the printer, paying attention to elements that come in contact with your media.

ALTEC CLEANING WIPES (25 PCS.)
Art.nr. 91001728



3. Remove the **waste roll** from the ribbon waste hub and place it on the ribbon supply cover.





4. Clean the **print head** from left to right with the Cleaning Wipe.

Then place the **waste roll** back in the ribbon waste hub and close the ribbon supply cover.



5. Clean the **media guide bar** and turn it around to clean it completely around.



6. Clean the **platen roller** and turn it with both thumbs to clean it completely around.



Instruction video

Learn how to clean your printer with our instruction video.

[Watch video](#)

8 Support (FAQ)

Do you need any help setting up your printer or do you experience a problem during printing?
Please visit our [online FAQ](#). Here we collect instructions, common questions and solutions.

Note: Online F.A.Q. is currently only available in Dutch



F.A.Q.

Instructions and troubleshooting

[Go to FAQ](#)

Need assistance from a representative?

Do you need support or assistance from one of our representatives?
Please call or e-mail us:

The Netherlands

📞 T. +31(0)78 - 615 20 33
✉️ info@altec.nl

Belgium

📞 T. +32(0)2 - 270 34 88
✉️ info@altec.be



ATP 300
PRO

ATP 600
PRO