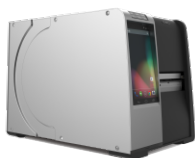# AIP-830

AI Industrial Printer

1. User Scenario

2. Product Features

Embedded Android operating system

The powerful Android OS enables unlimited possibilities for printing tasks.

Excellent RFID recognition accuracy

The self-designed UHF RFID engine provides a deeply optimized user experience. The ability of automatically locating the position of RFID tags has achieved the highest identification accuracy in the industry.

High configuration computing platform

64-bit six-core computing platform + independent NPU + 5G RAM provide strong technical support for applications with complex AI algorithms such as tag CIS.

Large HD touch screen

8-inch large HD touch screen provides intuitive operation and excellent user experience.

Rich communication interface

Standard communication interfaces include Ethernet, WIFI, Bluetooth, USB3.0(Type-B)、RS-232、GPIO,PSAM, etc.

3 sets of gap sensors

Equipped with 3 sets of gap sensors, including upper reflection, lower reflection and transmission type, the printer meets various printing needs from customers.

Fanless and maintenance-free design

The fanless and maintenance-free design effectively extends the service life of power supply unit, creates a quieter standby environment and makes maintenance more convenient.

Adaptive label paper detection

The printer can automatically detect the label height and gap value, which makes it adaptive to different types of label printing and positioning more precise.

Double alarm detection mechanism

It features alarming function by card ribbon detection and paper jam detection.

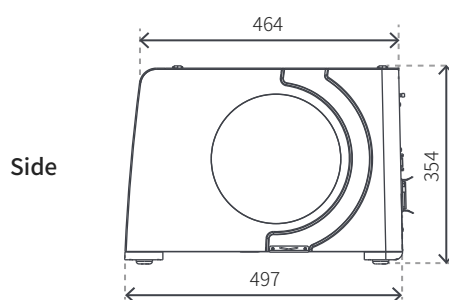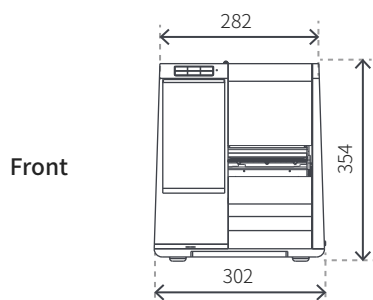**Adapt to different inner diameter paper rolls**

With self-designed paper roll expander, it can be compatible with general paper rolls such as 25mm, 40mm, 76mm inner diameters.

Replaceable design of consumable material

The modular design of the print head and the removable design of the print rubber roller make it convenient for customers to disassemble and replace.

3. Product Size(mm)

Front
282
354
302

Side
464
354
497

4. Product Parameters

⚙ Physical Parameter

Dimensions	497*302*354mm
Weight	19.5kg

⚙ Configuration Parameter

Operation System	Android 9.0
CPU	Hexa-core 64 bit processor
	(Dual-core Cortex-A72+Quad-core Cortex-A53)
	Frequency is up to 1.8GHz
GPU	Mali-T860MP4 GPU
	Supports OpenGLES1.1/ 2.0/ 3.0/ 3.1,
	OpenVG1.1, OpenCL, DX11
NPU	Supports multiple AI algorithms
	Computing power up to 3.0TOPs
RAM	1G+4G
ROM	32G
USB	2 USB3.0 Host (Type-A) interfaces
	1 USB3.0 Device (Type-B) interface
Serial Interface	1 RS232 interface
Ethernet	10/100/1000M-bit ethernet
Bluetooth	Bluetooth 5.0
WIFI	Supports 2.4G/ 5G WIFI
PSAM	Supports
GPIO	2 Inputs,2 Outputs
Physical Button	
FEED/PAUSE/CANCEL	3 ALPS buttons/ Operating force 2.5N /
	Operating life 1,000,000 cycles
Function Keys *3	3 ALPS buttons/ Operating force 2.5N /
	Operating life 1,000,000 cycles
Body Design	Metal frame, stylish appearance
LCD	8.0 inches/ 1200*1920 / IPS / 180°view angle
Gyroscope	Six axis(Acdeleration+Gyroscope+Magnetometer)

⚙ Printer Specifications

Resolution	300 dpi/12 dots per mm
Maximum Print Width	105mm (4.1")
Maximum Print Speed	300 dpi:254mm/s (10ips)
Paper Detection Method	Transmissive and reflective
Maximum Continuous Print Length	3000mm (118.1")
Print Method	Thermal transfer and thermal printing
Consumables Installation	Side-mounted consumables

⚙ Media Parameters

Label Roll Size	Width: 10-110mm (0.39"-4.33")
	Outer diameter: maximum 203mm (8")
	Inner diameter: 25.4mm(1")/40mm(1.5")/76mm(3")
Label Thickness	0.06mm (0.0023") to 0.305mm (0.012")
	Anti-metal label version: ≤ 1.2 mm
Ribbon Roll Size	Outer diameter: up to 84mm (3.3")
	Inner diameter: 25.4mm (1")
	Width: Maximum 118mm (4.65")

⚙ UHF RFID

RFID Engine	RodinBell M-2800/ Based on Impinj Indy R2000
Protocol	EPC Global UHF Class 1 Gen 2/ ISO 18000-6C

⚙ Fonts and Graphics

Fonts	Built-in Western dot matrix font library;
	Chinese dot matrix font library;
	Downloadable vector font library;
Graphics	Downloadable objects include graphics;
	Scalable and bitmap fonts;

⚙ Barcode Symbologies

1D Barcode	Code128, Code39, Code93, UPC-A, UPC-E,
	EAN13, EAN8, ITF,CODABAR, GS1 BAR etc
2D Barcode	QRCODE, PDF417, DATAMATRIX, Micro PDF417,
	Truncated PDF417, MAXICODE etc

⚙ Application Environment

Environmental Parameters	Operating Temp:: 0°C to 40°C (32°F to 104°F)
	Operating Humidity: 20%RH-85%RH (non-condensing)
	Storage Temp: -40°C to 60°C(-40°F to 140°F)
	Storage Humidity: 20%RH-85%RH (non-condensing)
Power Supply	100～240V，5.8A，50/60Hz

⚙ Accessories

Wifi antenna,Power supply,USB cable

RODINBELL