IDZOR

TECHNOLOGIES

Good ideas and best solutions

IDZOR PR-500 mobile printer
RS232 + USB + Bluetooth / WiFi

Appearance and capabilities

Mobile printer IDZOR PR-500 is designed for printing on adhesive labels, thermal paper, and special adhesive tape without a substrate (new technology linerless label). Convenient for mobile re-marking of goods or printing receipts. It can be connected to data collection terminals, smartphones, tablets, personal computers or laptops. The printer's body is made of durable plastic with a convenient flip-down cover with strong locker, which allows you to quickly insert the label into the printer. The printer supports wireless data transfer. Stylish design and comfortable buttons ensure maximum usability. The printer provides an OLED display (128X32 resolution) for displaying information about printer status (Serial, Bluetooth, printing, paper out, error, baud rate, speed, density, power). And also the printer informs the user with the following signals: buzzer alarming, paper out, power and overheat alarming, black mark detection, auto standby.

Data transfer

The mobile printer has advanced functionality and supports the ability to transfer data through RS232 Serial, USB, Bluetooth 2.0 / 4.0 or WiFi interfaces. When using the IDZOR PR-500 printer with data collection terminals, it is possible to print adhesive labels with barcodes 1D: UPC-A / UPC-E / EAN-13 / EAN-8 / CODE39 / ITF25 / CODABAR / CODE93 / CODE128 and 2D: PDF417, QR code, DATA Matrix) for later scanning and inventory tracking. You can print price tags for a quick re-evaluation of clothes or products in the store. Any information from the mobile device can be printed on Bluetooth or WiFi. By connecting the printer through a USB cable to a personal computer or laptop, you can load the desired labels into the printer memory and print them in the future. The printer memory is FLASH: 8MB, RAM: 32MB, the received buffer memory is 32MB.

Printing technology

IDZOR PR-500 supports thermal printing technology. In the printer case there are special sliding cheeks for fixing rolls of labels, check tape and adhesive tape with different widths from 58 mm to 83 mm. Thus, you can print on different media, simply by changing the rolls with the correct dimensions. The outer diameter of the roll loaded into the printer is 50 mm., The internal diameter of the roll is 13 mm. The thickness of the label tape (of any type) for printing is acceptable in the range 0.06mm ~ 0.13mm. The printer's print speed is 75mm per second, which allows printing any standard label for a second - this is a very good indicator! The resolution for printing is 203dpi (dots per inch) or 8 dots per millimeter or 664 dots per line. The maximum print width is 72 mm. The maximum possible print length with a 100% charged battery is 90 meters.
The performance of the thermal head is 100 km.

Differences between configurations

The printer model IDZOR PR-500 can be of three types:

- PR-500 - only supports the type of thermal print on paper.
- PR-500T - supports the type of thermal print on thermal paper and adhesive labels.
- PR-500TL - supports the type of thermal print on thermal paper, adhesive labels and special adhesive tape without a substrate (a new unique technology linerless label!).

Battery and operating time

IDZOR PR-500 mobile printer is equipped with a 7.4V / 2000mAh battery. The time to fully charge the battery is less than 3 hours. Power supply for charging the battery 12V / 2A. The maximum possible print length with a 100% charged battery is 90 meters or in terms of the commonly used label height of 40 mm, the number of printed labels on a full battery charge is 2250 pcs. The maximum battery life in standby mode is 100 hours.

Physical characteristics

The size of the printer is 130x57x120mm. Printer weight is 600gr. Operating temperature 0 ° C to 50 ° C. Storage temperature from -20 ° C to 60 ° C. Protection from falling from a height of 1.5 meters. Protection class against moisture and dust IP54. The printer is equipped with three function buttons POWER (power on/off), FEED (paper feeding) MODE (modes).

Software Features

For the developers and technical specialists, the printer has the following interaction capabilities.
- Commands: ESC / POS
- Driver: 32bit and 64bit Windows / LINUX
- SDK: WinCE, Windows Mobile, Andriod, IOS
- Setting tool: Yes (bmp download, baud rate, font, speed, density, password, blackmark, Bluetooth settings)

Delivery package

The IDZOR PR-500 printer is shipped with a roll of thermal paper, power adapter, USB cable, rechargeable battery and protective belt cover. Optional: charging for an additional battery, SD-ROM, Serial RS232 cable.

IDZOR PR-500 Technical characteristics

Printing	Printing method	Line thermal
	Resolution	8dots/mm, 664 dots/line, 203dpi
	Valid printing width	72mm(max)
	Printing Speed	75mm/s
	Memory	FLASH : 8MB, RAM: 32MB
		Receiving buffer: 32MB
Paper	Paper type	Thermal roll paper, thermal normal label, thermal lineless label
	Paper width	57.5~82.5±0.5mm
	Paper thickness	0.06~0.13mm
	Roll diameter	φ50mm(outer)/φ13mm(Inner)
	Paper Loading Method	Drop-in easy loading
	Paper cutting method	Paper manual tear off
Content	Western character	12×24,9×24, multiple language for option
	Chinese character	GB18030, 24×24
	Barcode	1D: UPC-A/ UPC-E/ EAN-13/ EAN-8/ CODE39/ ITF25 /CODABAR/ CODE93/ CODE128
		2D: PDF417, QR code, DATA Matrix
	User-designed character, BMP	Support
Detection		Buzzer alarming, paper out, power and overheat alarming, black mark detection, auto standby
Human-computer interface	Button	POWER,FEED and MODE
	OLED Display	128X32 dots OLED
	Display content	Printer status(Serial, Bluetooth, printing, paper out, error, baud rate, speed, density, power)

IDZOR PR-500 Technical characteristics

Interface	Wire	RS232 Serial+USB
	Wireless	2.0Bluetooth/4.0 Bluetooth/wifi
Upgrade	Firmware upgrade	by USB
Power	Charger	12V/2A
	Battery	7.4V /2000mAh
	Charging time	Less than 3 hours
	Battery printing duration	90m
	Battery standby duration	100hours
	Power alarming	Support
Software	Command	ESC/POS
	Driver	32bit and 64bit Windows /LINUX
	SDK	WinCE,Windows Mobile, Andriod, IOS
	Setting tool	Yes(bmp download, baud rate, font, speed, density, password, blackmark, Bluetooth settings)
Physical characteristics	Operating	0~50%/10~80%
	Storage	-20~60%/10~90%
	Drop-off	1.5m
	IP standard	IP54
	Dimension	130x120x57mm
	Weight	600g appr.
Reliability	THP	100km
Accessories	Standard	Paper, power adaptor, USB cable, battery, carrying case
	Option	Standby charger, CD-ROM, serial cable