Alpha-2R

Portable Direct Thermal Printer

Smallest Most Affordable Mobile Printer

The Alpha-2R is a comfortable, lightweight, and affordable mobile receipt printer capable of working with any mobile printing application, providing quick and simple receipts or tickets.

The mobile printer can be worn comfortably throughout a full shift without interfering with the user's tasks. It is built for high durability and performance, equipped with essential features, and offers a selection of compatible accessories.

Key Features

- IP54-rated protective case to resist the dust and water
- Plastic design construction that withstands 1.5m (5ft) drop
- Wired & wireless communication interfaces: USB 2.0, RS-232, MFi Bluetooth 5.0, NFC and 802.11 a/b/g/n
- Wi-Fi Certified™
- High capacity 1620mAh rechargeable Li-ion batteries
- Large paper capacity to reduce the frequency of changing paper roll
- High-speed processor and extensive memory for fast print speeds of up to 102mm (4") per second
- Lasts more than 17 hours of printing receipts on a single battery charge
- Supports TSPL-EZ (EPL2 and ZPL emulations), ESC-POS, CPCL emulation
- 2-year standard warranty
- ENERGY STAR® qualified

Applications

Warehouse & Logistics

- Direct Store Deliveries (DSD)
- Proof of Delivery and Pickup
- Fleet Management

Retail

- Field Sales/Repairs
- Mobile Point-of-Sale

Transportation

- Onboard Ticketing

Entertainment & Hospitality

- Mobile Ticketing
- Table Side Ordering

Public Utilities

- Utility Billing/Meter Reading
- Parking Citations



Alpha-2R Accessories

Alpha-2R	Description	Factory Option	User Option
	**IP54-Rated Protective Case with Shoulder Strap** With the protective case and shoulder strap, the printer can be worn comfortably for a full shift, without interfering with the user's tasks. It is also IP54 tested, and resistant to dust and water.		V
	**1-Slot Battery Charger** Use the 1-slot charger to quickly charge the battery without any downtime.		V
	**4-Slot Battery Charger** The 4-slot charger is well-suited for heavy-duty missions.		V
	**Li-ion Battery** Print receipts for more than 17 hours on a single battery charge.		V
	**12-24V DC Vehicle Power Adaptor** For automobile vehicle plug to charge on the car.		V
	**12-60V DC Vehicle Power Adaptor** For automobile vehicle plug to charge on the car.		V
	**12-60V DC Vehicle Open End Power Adaptor** For charging on the car with open-ended wire.		V
	**Linerless Kit** The linerless kit suits linerless printing needs.	V	
	**Media Spacer Kit** The media spacer kit is able to support 1-inch or 2-inch media width applications.		V

Alpha-2R Specifications

Model	Alpha-2R Black	Alpha-2R White
Resolution	8 dots/mm (203 dpi)	
Printing Method	Direct Thermal	
Max. Print Speed	Up to 102mm (4")/second	
Max. Print Width	48mm (1.89")	
Max. Print Length	2,286mm (90")	
Enclosure	Plastic	
Physical Dimension	89.3mm (W) x 134.5mm (H) x 56.5mm (D) 3.52" (W) x 5.3" (H) x 2.22" (D)	
Weight (Including Battery)	350g (0.77lbs)	
Drop Specification	1.5m (5ft), with IP54 case can be 2m (6.5ft)	
IP Rating	IP42 (without case), IP54 (with case)	
Max. Roll Capacity	50mm (2") OD	
Processor	32-bit RISC CPU	
Memory	• 128 MB Flash memory • 64 MB SDRAM	
Interface	• USB 2.0 • 802.11 a/b/g/n wireless (factory option) • MFi Bluetooth 5.0 (factory option) • NFC (factory option) • RS-232 (user option)	
Power	Two-cell, 7.4V DC, 1620mAh Li-ion rechargeable battery	
Operation Switch, Button	• 3 buttons (On/off, feed, and cover-open) • 2 color LED for printer status, 3 LEDs for battery status	
Sensors	• Reflective sensor • Head open sensor	
Internal Fonts	• 8 alpha-numeric bitmap fonts • One Monotype Imaging® CG Triumvirate Bold Condensed scalable font	
Barcode	• 1D barcode Code 39, Code 93, Code128UCC, Code128 subsets A.B.C, Codabar, Interleave 2 of 5, EAN-8, EAN-13, EAN-128, UPC-A, UPC-E, EAN and UPC 2(5) digits add-on, MSI, PLESSEY, POSTNET, China POST, GS1 Data bar • 2D barcode PDF-417, Maxicode, DataMatrix, QR code, Aztec	
Printer Language	TSPL-EZ (EPL2, ZPL2), ESC-POS or CPCL emulation	
Media Type	Receipt paper, bline receipt paper (black mark in printing side) & selected label	
Media Width	Max. 58mm (2.28") *with adaptor: 50.8mm (2") and 25.4mm (1") (user option)	
Media Thickness	Receipt: 0.05 - 0.10mm (2 - 4 mil) Label: Up to 0.14mm (5.5 mil)	
Media Height	Label: Min. 25.4mm (1")	
Environment Condition	Operation: -20°C - 50°C (-4°F - 122°F), 10% - 90% non-condensing Storage: -30°C - 70°C (-22°F - 158°F), 10% - 90% non-condensing	
Environmental Concern	Comply with RoHS, WEEE, REACH, China RoHS	
Accessories	• Quick start guide • Belt clip • Li-ion battery • Power adaptor	
Limited Warranty	• Printer: 2 years • Print head: 25km (1 million inches) or 12 months which comes first • Platen: 50km (2 million inches) or 12 months which comes first"	
Factory Options	• 802.11 a/b/g/n wireless network • MFi Bluetooth 5.0 • Linerless kit • NFC	
User Options	• Mini type USB 2.0 • USB to RS-232 converter cable • Li-ion battery • 1-slot battery charger • 4-slot battery charger • 12-24V DC vehicle power adaptor • 12-60V DC vehicle power adaptor • 12-60V DC vehicle open end power adaptor • IP54-rated protective case with shoulder strap • Media spacer kit	



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