

# Alpha-3R

## Portable Direct Thermal Printer

### Simplify Your Everyday Mobile Printing Needs

Print receipts and tickets on demand and on the go with TSC's Alpha-3R, a cost-effective 3-inch mobile receipt printer. The Alpha-3R is designed for durability, featuring an IP54-rated protective case to resist dust and water. It is comfortable to wear for a full shift without interfering with the user's tasks. The mobile printer is also equipped with many important features and offers a selection of competitive accessories.

### Key Features

- IP54-rated environmental case to resist dust and water
- Plastic design with rubber over-mold construction that withstands 1.5m (5 ft) drop
- Wired & wireless communication interfaces: USB 2.0, RS-232, Bluetooth, and 802.11 a/b/g/n
- High capacity 2500mAh 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 30 hours of printing receipts on a single battery charge
- Supports TSPL-EZ (EPL2 and ZPL emulations), ESC-POS, CPCL emulation
- 2-year standard warranty

### Applications

#### Warehouse & Logistics

- Direct Store Deliveries (DSD)

#### Retail

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

#### Transportation

- Onboard Ticketing

#### Entertainment & Hospitality

- Mobile Ticketing

#### Public Utilities

- Utility Billing/Meter Reading
- Parking Citations



## Alpha-3R Accessories

Alpha-3R	Description	User Option
	<p><b>IP54-Rated Protective Case with Shoulder Strap</b>            Add an extra layer of protection for harsh environments with a protective case. While in the case, the printer is IP54-rated for resistance to windblown water and dust. Includes a shoulder strap.</p>	<p>V</p>
	<p><b>Belt Clip</b>            Use the belt clip for a complete hands-free solution.</p>	<p>V</p>
	<p><b>1-Slot Battery Charger</b>            Use the 1-slot charger to quickly charge the battery without any downtime.</p>	<p>V</p>
	<p><b>4-Slot Battery Charger</b>            The 4-slot charger is well-suited for heavy-duty missions.</p>	<p>V</p>
	<p><b>Li-ion Battery</b>            Print receipts for more than 30 hours on a single battery charge.</p>	<p>V</p>
	<p><b>12-24V DC Vehicle Power Adaptor</b>            For automobile vehicle plug to charge on the car.</p>	<p>V</p>
	<p><b>12-60V DC Vehicle Power Adaptor</b>            For automobile vehicle plug to charge on the car.</p>	<p>V</p>
	<p><b>12-60V DC Vehicle Open End Power Adaptor</b>            For charging on the car with open-ended wire.</p>	<p>V</p>

# Alpha-3R Specifications

Model	Alpha-3R
Resolution	8 dots/mm(203 dpi)
Printing Method	Direct Thermal
Max. Print Speed	Up to 102mm(4")/second
Max. Print Width	72mm(2.83")
Max. Print Length	2,286mm(90")
Enclosure	Plastic with rubber over-mold construction
Physical Dimension	116mm(W)x 148mm(H)x 70mm(D) 4.57"(W)x 5.83"(H)x 2.75"(D)
Weight (Including Battery)	550g(1.212lbs)
Drop Specification	1.5m(5ft)
IP Rating	IP54 (with case)
Max. Roll Capacity	Receipt: 57mm(2.25")OD Label: 55mm(2.16")OD
Processor	32-bit RISC CPU
Memory	<ul style="list-style-type: none"> <li>4 MB Flash memory</li> <li>8 MB SDRAM</li> </ul>
Interface	<ul style="list-style-type: none"> <li>USB 2.0</li> <li>802.11 a/b/g/n Wireless(factory option)</li> <li>Bluetooth(factory option)</li> <li>RS-232(user option)</li> </ul>
Power	Two-cell, 7.4V DC, 2500mAh Li-ion rechargeable battery
Operation Switch, Button	<ul style="list-style-type: none"> <li>3 buttons(On/off, feed, and cover-open)</li> <li>2 color LED for printer status, 3 LEDs for battery status</li> </ul>
Sensors	<ul style="list-style-type: none"> <li>Reflective sensor</li> <li>Head open sensor</li> </ul>
Internal Fonts	<ul style="list-style-type: none"> <li>8 alpha-numeric bitmap fonts</li> <li>One Monotype Imaging® CG Triumvirate Bold Condensed scalable font</li> </ul>
Barcode	<ul style="list-style-type: none"> <li>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</li> <li>2D barcode PDF-417, Maxicode, DataMatrix, QR code, Aztec</li> </ul>
Printer Language	TSPL-EZ(EPL2, ZPL2), ESC-POS or CPCL emulation
Media Type	Receipt paper, receipt paper with black mark in printing side & selected label
Media Width	Receipt: 50.8mm - 80mm(2" - 3.15") Label: 50.8mm - 78mm(2" - 3.07")
Media Thickness	Receipt: 0.0508mm - 0.1016mm(2mil - 4mil) Label: Up to 0.14mm(5.5mil)
Media Height	Label: Min. 25.4mm(1")
Environment Condition	Operation: -10°C - 50°C(-14°F - 122°F), 10% - 90% non-condensing Storage: -40°C - 60°C(-40°F - 140°F), 10% - 90% non-condensing
Environmental Concern	Comply with RoHS, WEEE, REACH, China RoHS
Accessories	<ul style="list-style-type: none"> <li>Quick start guide</li> <li>Belt Clip</li> <li>Li-ion battery</li> <li>Power adaptor</li> </ul>
Limited Warranty	<ul style="list-style-type: none"> <li>Printer: 2 years</li> <li>Print head: 25km(1 million inches) or 12 months which comes first</li> <li>Platen: 25km(1 million inches)</li> <li>Battery: 1 year</li> </ul>
Factory Options	<ul style="list-style-type: none"> <li>802.11 a/b/g/n Wireless network</li> <li>Bluetooth</li> <li>MFi</li> </ul>
User Options	<ul style="list-style-type: none"> <li>Mini type USB 2.0</li> <li>USB to RS-232 converter cable</li> <li>Li-ion battery</li> <li>1-slot battery charger</li> <li>4-slot battery charger</li> <li>IP54-rated protective case with shoulder strap</li> <li>12-24V DC vehicle power adaptor</li> <li>12-60V DC vehicle power adaptor</li> <li>12-60V DC vehicle open end power adaptor</li> </ul>



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20240202

