

# TSC

The Smarter Choice.



## ALPHA-2R – Portable Direct Thermal Printer

# SMALLEST MOST AFFORDABLE MOBILE PRINTER



### KEY FEATURES

- IP54-rated environmental case to resist the dust and water
- Plastic design construction that withstands 1.5 m (5 ft) drop
- Wired & wireless communication interfaces: USB 2.0, RS-232, Bluetooth 4.0, Bluetooth 4.2 + MFi, NFC and 802.11 a/b/g/n (supports either WiFi or Bluetooth)
- Wi-Fi Certified™
- High capacity 1620 mAh rechargeable Lithium 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 100 mm (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

### APPLICATIONS

- Direct Store Deliveries (DSD)
- Proof of Delivery and Pickup
- Field Sales/Repairs
- Mobile Point-of-Sale
- Parking Citations
- Mobile Ticketing
- Onboard Transportation Ticketing
- Utility Billing/Meter Reading
- Fleet Management

## ALPHA-2R – Portable Direct Thermal Printer

| PRINTER MODEL              | Alpha-2R                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Resolution                 | 8 dots/mm (203 DPI)                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Printing method            | Direct Thermal                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Max. print speed           | 102 mm (4")/second                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Max. print width           | 48 mm (1.89")                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Max. print length          | 2,286 mm (90")                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Enclosure                  | Plastic                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Physical dimension         | 89.3 mm (W) x 134.5 mm (H) x 56.5 mm (D)<br>3.52" (W) x 5.3" (H) x 2.22" (D)                                                                                                                                                                                                                                                                                                                                                                                        |
| Weight (including battery) | 0.35 kg (0.77 lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Drop specification         | 1.5 m (5 ft), with IP54 case can be 1.5 m (5 ft)                                                                                                                                                                                                                                                                                                                                                                                                                    |
| IP rating                  | IP42 (without case)<br>IP54 (with case)                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Max. roll capacity         | 50 mm (2") OD                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Processor                  | 32-bit RISC CPU                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Memory                     | <ul style="list-style-type: none"> <li>128 MB Flash memory</li> <li>64 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 4.0 (factory option)</li> <li>Bluetooth 4.2 + MFi (factory option)</li> <li>NFC (factory option)</li> <li>RS-232 (user option)</li> </ul>                                                                                                                                                                                                       |
| Power                      | Two-cell, 7.4V DC, 1620 mAh 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>                                                                                                                                                                                                                                                                                                           |
| Bar code                   | <ul style="list-style-type: none"> <li>1D bar code<br/>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 bar code<br/>PDF-417, Maxicode, DataMatrix, QR code, Aztec</li> </ul>                                                                                                                     |
| 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 58 mm (2.28")<br>*with adapter: 50.8 mm (2") and 25.4 mm (1") (user option)                                                                                                                                                                                                                                                                                                                                                                                     |
| Media thickness            | Receipt: 0.05 ~ 0.10 mm (2 ~ 4 mil)<br>Label: Fasson standard label media up to 0.14 mm (5.5 mil)                                                                                                                                                                                                                                                                                                                                                                   |
| Media height               | Label: Min. 25.4 mm (1")                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Environment condition      | Operation: -20 ~ 50 °C (-4 ~ 122 °F), 10 ~ 90% non-condensing<br>Storage: -30 ~ 70 (-22 ~ 158 °F), 10 ~ 90% non-condensing                                                                                                                                                                                                                                                                                                                                          |
| Safety regulation          | FCC, IC, CE, CB, CCC, SRRC, BC, TUV, NCC, Energy Star®                                                                                                                                                                                                                                                                                                                                                                                                              |
| Environmental concern      | Comply with RoHS, WEEE, REACH                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Accessories                | <ul style="list-style-type: none"> <li>Quick Start Guide</li> <li>Belt clip</li> <li>Li-ion battery</li> <li>Power adapter</li> </ul>                                                                                                                                                                                                                                                                                                                               |
| Limited warranty           | <ul style="list-style-type: none"> <li>Printer: 2 years</li> <li>Print head: 25 km (1 million inches) or 12 months which comes first</li> <li>Platen: 50 km (2 million inches) or 12 months which comes first</li> </ul>                                                                                                                                                                                                                                            |
| Factory options            | <ul style="list-style-type: none"> <li>802.11 a/b/g/n Wireless network (supports either WiFi or Bluetooth)</li> <li>Bluetooth</li> <li>MFi</li> <li>Linerless</li> <li>NFC</li> <li>Fork truck mount, cart mount</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>Charge station 1 cell (with changeable power connector)</li> <li>Charge station 4 cell (with changeable power connector)</li> <li>Vehicle power adapter</li> <li>IP54-rated environmental case with shoulder strap</li> <li>12-24V DC automobile cigarette lighter plug</li> <li>Adapters for 1" or 2" media roll width</li> </ul> |



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\* Energy Star, MFi, Linerless will be available in December 2016

