

# MH240 SERIES – Industrial Thermal Transfer Bar Code Printer

| ADVANCED                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |                             |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------|
| PRINTER MODEL                 | MH240P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MH340P                       | MH640P                      |
| Resolution                    | 8 dots/mm (203 DPI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12 dots/mm (300 DPI)         | 24 dots/mm (600 DPI)        |
| Printing method               | Thermal Transfer & Direct Thermal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |                             |
| Max. print speed              | 356 mm (14")/second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 305 mm (12)/second           | 152 mm (6)/second           |
| Max. print width              | 104 mm (4.09")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |                             |
| Max. print length             | 25,400 mm (1,000")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 11,430 mm (450")             | 2,540 mm (100")             |
| Enclosure                     | Die-cast print mechanism and base with bi-fold metal cover with large clear media view window                                                                                                                                                                                                                                                                                                                                                                                                                                       |                              |                             |
| Physical dimension            | 276 mm (W) x 412 mm (H) x 502 mm (D)<br>10.87" (W) x 16.22" (H) x 19.76" (D)                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |                             |
| Weight                        | 18.93 kg (41.73 lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                             |
| Label roll capacity           | 203.2 mm (8") OD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |                             |
| Internal rewiner (full roll)  | Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |
| Ribbon                        | 600 m long, max. OD 90 mm, 1" core (ink coated outside or inside)                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |                             |
| Ribbon width                  | 25.4 mm ~ 114.3 mm (1" ~ 4.5")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |                             |
| Processor                     | 32-bit RISC CPU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |                             |
| Memory                        | <ul style="list-style-type: none"> <li>• 512 MB Flash memory</li> <li>• 256 MB SDRAM</li> <li>• microSD Flash memory card reader for Flash memory expansion, up to 32 GB</li> </ul>                                                                                                                                                                                                                                                                                                                                                 |                              |                             |
| Interface                     | <ul style="list-style-type: none"> <li>• RS-232</li> <li>• USB 2.0</li> <li>• Internal Ethernet, 10/100 Mbps</li> <li>• USB host * 2, for scanner or PC keyboard</li> <li>• GPIO + Centronics (factory option)</li> <li>• Bluetooth (factory option)</li> <li>• Slot-in 802.11 a/b/g/n wireless (dealer option)</li> </ul>                                                                                                                                                                                                          |                              |                             |
| Power                         | <ul style="list-style-type: none"> <li>• Internal switching power supply</li> <li>• Input: AC 100-240V, 4-2A, 50-60Hz</li> <li>• Output: DC 5V, 5A; DC 24V, 7A; DC 36V, 1.4A; Total 243W</li> </ul>                                                                                                                                                                                                                                                                                                                                 |                              |                             |
| LCD                           | 16 bits color, 480 x 272 pixel, with back light, Resistive Touch Screen                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                             |
| Operation switch, button, LED | 1 power switch, 6 operation buttons (2 function keys and navigation buttons) & 1 LED with 3 colors (red, green, amber)                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                             |
| Sensors                       | <ul style="list-style-type: none"> <li>• Gap transmissive sensor (position adjustable)</li> <li>• Black mark reflective sensor (position adjustable)</li> <li>• Head open sensor</li> <li>• Ribbon encoder sensor</li> <li>• Ribbon end sensor</li> <li>• Media near end sensor</li> </ul>                                                                                                                                                                                                                                          |                              |                             |
| Real time clock               | Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |
| Internal fonts                | <ul style="list-style-type: none"> <li>• 8 alpha-numeric bitmap fonts</li> <li>• Monotype Imaging® true type font engine with one 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, Interleaved 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, ITF14, EAN14, Code 11, TELEPEN, TELEPENN, PLANET, Code 49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS</li> <li>• 2D bar code<br/>TLC39, CODABLOCK F mode, Maxicode, QR code, Aztec, PDF-417, Micro PDF 417, GS1 DataMatrix, GS1 DataBar (RSS barcode)</li> </ul> |                              |                             |
| Font and barcode rotation     | 0, 90, 180, 270 degree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                             |
| Printer language              | TSPL-EZ (Compatible to EPL, ZPL, ZPL II)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |
| Media type                    | Continuous, die-cut, black mark, fan-fold, notch (outside wound)                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |                             |
| Media width                   | 20 ~ 114 mm (0.79" ~ 4.5")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |                             |
| Media thickness               | 0.06 ~ 0.28 mm (2.36 ~ 28 mil)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |                             |
| Media core diameter           | 38.1 ~ 76.2 mm (1.5" ~ 3")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |                             |
| Label length                  | 5 ~ 25,400 mm (0.20" ~ 1,000")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5 ~ 11,430 mm (0.20" ~ 450") | 5 ~ 2,540 mm (0.20" ~ 100") |
| Environment condition         | Operation: 5 ~ 40°C, 25 ~ 85% non-condensing<br>Storage: -40 ~ 60°C, 10 ~ 90% non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |                             |
| Safety regulation             | FCC Class A, CE Class A, RCM Class A, UL, cUL, TÜV/safety, CCC, KC, BIS, ENERGY STAR®                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                             |
| Environmental concern         | Comply with RoHS, WEEE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                             |
| Accessories                   | <ul style="list-style-type: none"> <li>• Quick start guide</li> <li>• USB cable</li> <li>• Power cord</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>• GPIO + Parallel interface</li> <li>• Internal Bluetooth module</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |                             |
| Dealer options                | <ul style="list-style-type: none"> <li>• 802.11 a/b/g/n wireless module kit (slot-in)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |                             |
| User options                  | <ul style="list-style-type: none"> <li>• KP-200 Plus keyboard display unit</li> <li>• KU-007 Plus programmable smart keyboard</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                            |                              |                             |



MH240P



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