



## MH240 SERIES – Industrial Thermal Transfer Bar Code Printer

# FAST, HIGH VOLUME PRINTING FEATURING ENHANCED PROCESSING CAPABILITIES AND SOPHISTICATED DATABASE CONNECTIVITY



### KEY FEATURES

- "Thermal Smart Control" print technology produces cleanest, high quality barcodes
- Up to 356 mm (14") per sec. print speed
- Easy to operate with the new GUI design on display
- 3.5" color LCD with 6-button control for standard model or 4.3" color touch LCD panel with 6-button control for advanced model
- Small label peel off - up to 0.5 inch length (MH240/MH340/MH640 and MH240T/MH340T/MH640T)
- Support 8" OD full roll internal rewriter (Only on MH240P/MH340P/MH640P)
- USB host interface for stand-alone applications
- Available in 203 dpi, 300 dpi and 600 dpi resolutions, firmware automatically detects printhead resolution and switches accordingly
- 600 meter ribbon supply
- microSD Flash memory expansion up to 32 GB
- Ribbon capacity and label near end monitor widget
- TSPL-EZ firmware for plug-n-play ease
- Options include: peel-off kit, GPIO, internal Bluetooth module, slot-in 802.11 a/b/g/n wireless module kit, regular cutter, heavy duty guillotine cutter and care label cutter
- ENERGY STAR® certified

### APPLICATIONS

- Industrial-duty Printing
- Compliance Labeling
- Work In Process
- Order Fulfillment
- Distribution
- Shipping/ Receiving
- Healthcare Labeling and Patient Safety
- Ticketing
- Electronics & Jewelry Labeling

# MH240 SERIES – Industrial Thermal Transfer Bar Code Printer



**MH240**

| STANDARD                      |  |                              |                             |
|-------------------------------|--|------------------------------|-----------------------------|
| PRINTER MODEL                 | MH240  | MH340                        | MH640                       |
| 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 326 mm (H) x 502 mm (D)<br>10.87" (W) x 12.83" (H) x 19.76" (D)   |                              |                             |
| Weight                        | 15.35 kg (33.84 lbs)   |                              |                             |
| Label roll capacity           | 203.2 mm (8") OD   |                              |                             |
| Internal rewinder (full roll) | N/A  |                              |                             |
| 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                         | Internal switching power supply<br><ul style="list-style-type: none"> <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                           | TFT color display, 320 x 240 pixels  |                              |                             |
| 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> </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, perforated, tag, care label (outside wound)  |                              |                             |
| Media width                   | 20 ~ 114 mm (0.79" ~ 4.5")   |                              |                             |
| Media thickness               | 0.06 ~ 0.28 mm (2.36 ~ 11 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>• Regular cutter (full cut guillotine cutter)</li> <li>• Heavy duty cutter (full cut guillotine cutter)</li> <li>• Care label cutter</li> <li>• Peel-off kit</li> <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> </ul>  |                              |                             |



# MH240 SERIES – Industrial Thermal Transfer Bar Code Printer

| ADVANCED                      |   |                              |                             |
|-------------------------------|---|------------------------------|-----------------------------|
| PRINTER MODEL                 | MH240T  | MH340T                       | MH640T                      |
| 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 326 mm (H) x 502 mm (D)<br>10.87" (W) x 12.83" (H) x 19.76" (D)  |                              |                             |
| Weight                        | 15.43 kg (34.02 lbs)  |                              |                             |
| Label roll capacity           | 203.2 mm (8") OD  |                              |                             |
| Internal rewinder (full roll) | N/A   |                              |                             |
| 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                         | Internal switching power supply<br><ul style="list-style-type: none"> <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, perforated, tag, care label (outside wound)   |                              |                             |
| Media width                   | 20 ~ 114 mm (0.79" ~ 4.5")  |                              |                             |
| Media thickness               | 0.06 ~ 0.28 mm (2.36 ~ 11 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>• Regular cutter (full cut guillotine cutter)</li> <li>• Heavy duty cutter (full cut guillotine cutter)</li> <li>• Care label cutter</li> <li>• Peel-off kit</li> <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> </ul>   |                              |                             |



MH240T



# MH240 SERIES – Industrial Thermal Transfer Bar Code Printer

| PREMIUM                       |   |                              |                             |
|-------------------------------|---|------------------------------|-----------------------------|
| 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 rewinder (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, perforated, tag, care label (outside wound)   |                              |                             |
| Media width                   | 20 ~ 114 mm (0.79" ~ 4.5")  |                              |                             |
| Media thickness               | 0.06 ~ 0.28 mm (2.36 ~ 11 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> </ul>   |                              |                             |



MH240P



- CORPORATE HEADQUARTERS**  
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