



## 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 clean, 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-EZD firmware for plug-n-play ease
- Options include: internal rewinding kit, 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) 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)	Internal rewinding kit (5" O.D.) (dealer option)		
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 <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 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, TELEPEN, PLANET, Code 49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS</li> <li>• 2D bar code 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-EZD (Compatible to EPL, ZPL, ZPL II, DPL)		
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	25.4 ~ 76.2 mm (1" ~ 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 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> <li>• Internal rewinding kit (5" O.D.)</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) 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)	Internal rewinding kit (5" O.D.) (dealer option)		
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 <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 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 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-EZD (Compatible to EPL, ZPL, ZPL II, DPL)		
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	25.4 ~ 76.2 mm (1" ~ 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 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> <li>• Internal rewinding kit (5" O.D.)</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) 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	Internal switching power supply <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 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 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-EZD (Compatible to EPL, ZPL, ZPL II, DPL)		
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 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



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