



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 and heavy duty guillotine 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)	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"> • 128 MB Flash memory • 128 MB SDRAM • microSD Flash memory card reader for Flash memory expansion, up to 32 GB 		
Interface	<ul style="list-style-type: none"> • RS-232 • USB 2.0 • Internal Ethernet, 10/100 Mbps • USB host * 2, for scanner or PC keyboard • GPIO + Centronics (factory option) • Bluetooth (factory option) • Slot-in 802.11 a/b/g/n wireless (dealer option) 		
Power	Internal switching power supply <ul style="list-style-type: none"> • Input: AC 100-240V, 4-2A, 50-60Hz • Output: DC 5V, 5A; DC 24V, 7A; DC 36V, 1.4A; Total 243W 		
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"> • Gap transmissive sensor (position adjustable) • Black mark reflective sensor (position adjustable) • Head open sensor • Ribbon encoder sensor • Ribbon end sensor 		
Real time clock	Standard		
Internal fonts	<ul style="list-style-type: none"> • 8 alpha-numeric bitmap fonts • Monotype Imaging® true type font engine with one CG Triumvirate Bold Condensed scalable font 		
Bar code	<ul style="list-style-type: none"> • 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 • 2D bar code TLC39, CODABLOCK F mode, Maxicode, QR code, Aztec, PDF-417, Micro PDF 417, GS1 DataMatrix, GS1 DataBar (RSS barcode) 		
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 ~ 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"> • Quick start guide • USB cable • Power cord 		
Limited warranty	<ul style="list-style-type: none"> • Printer: 2 years • Print head: 25 km (1 million inches) or 12 months which comes first • Platen: 50 km (2 million inches) or 12 months which comes first 		
Factory options	<ul style="list-style-type: none"> • GPIO + Parallel interface • Internal Bluetooth module 		
Dealer options	<ul style="list-style-type: none"> • Regular cutter (full cut guillotine cutter) • Heavy duty cutter (full cut guillotine cutter) • Peel-off kit • 802.11 a/b/g/n wireless module kit (slot-in) 		
User options	<ul style="list-style-type: none"> • KP-200 Plus keyboard display unit 		



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)	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"> • 512 MB Flash memory • 256 MB SDRAM • microSD Flash memory card reader for Flash memory expansion, up to 32 GB 		
Interface	<ul style="list-style-type: none"> • RS-232 • USB 2.0 • Internal Ethernet, 10/100 Mbps • USB host * 2, for scanner or PC keyboard • GPIO + Centronics (factory option) • Bluetooth (factory option) • Slot-in 802.11 a/b/g/n wireless (dealer option) 		
Power	Internal switching power supply <ul style="list-style-type: none"> • Input: AC 100-240V, 4-2A, 50-60Hz • Output: DC 5V, 5A; DC 24V, 7A; DC 36V, 1.4A; Total 243W 		
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"> • Gap transmissive sensor (position adjustable) • Black mark reflective sensor (position adjustable) • Head open sensor • Ribbon encoder sensor • Ribbon end sensor • Media near end sensor 		
Real time clock	Standard		
Internal fonts	<ul style="list-style-type: none"> • 8 alpha-numeric bitmap fonts • Monotype Imaging® true type font engine with one CG Triumvirate Bold Condensed scalable font 		
Bar code	<ul style="list-style-type: none"> • 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 • 2D bar code TLC39, CODABLOCK F mode, Maxicode, QR code, Aztec, PDF-417, Micro PDF 417, GS1 DataMatrix, GS1 DataBar (RSS barcode) 		
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 ~ 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"> • Quick start guide • USB cable • Power cord 		
Limited warranty	<ul style="list-style-type: none"> • Printer: 2 years • Print head: 25 km (1 million inches) or 12 months which comes first • Platen: 50 km (2 million inches) or 12 months which comes first 		
Factory options	<ul style="list-style-type: none"> • GPIO + Parallel interface • Internal Bluetooth module 		
Dealer options	<ul style="list-style-type: none"> • Regular cutter (full cut guillotine cutter) • Heavy duty cutter (full cut guillotine cutter) • Peel-off kit • 802.11 a/b/g/n wireless module kit (slot-in) 		
User options	<ul style="list-style-type: none"> • KP-200 Plus keyboard display unit 		



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"> • 512 MB Flash memory • 256 MB SDRAM • microSD Flash memory card reader for Flash memory expansion, up to 32 GB 		
Interface	<ul style="list-style-type: none"> • RS-232 • USB 2.0 • Internal Ethernet, 10/100 Mbps • USB host * 2, for scanner or PC keyboard • GPIO + Centronics (factory option) • Bluetooth (factory option) • Slot-in 802.11 a/b/g/n wireless (dealer option) 		
Power	<ul style="list-style-type: none"> • Internal switching power supply • Input: AC 100-240V, 4-2A, 50-60Hz • Output: DC 5V, 5A; DC 24V, 7A; DC 36V, 1.4A; Total 243W 		
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"> • Gap transmissive sensor (position adjustable) • Black mark reflective sensor (position adjustable) • Head open sensor • Ribbon encoder sensor • Ribbon end sensor • Media near end sensor 		
Real time clock	Standard		
Internal fonts	<ul style="list-style-type: none"> • 8 alpha-numeric bitmap fonts • Monotype Imaging® true type font engine with one CG Triumvirate Bold Condensed scalable font 		
Bar code	<ul style="list-style-type: none"> • 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 • 2D bar code TLC39, CODABLOCK F mode, Maxicode, QR code, Aztec, PDF-417, Micro PDF 417, GS1 DataMatrix, GS1 DataBar (RSS barcode) 		
Font and barcode rotation	0, 90, 180, 270 degree		
Printer language	TSPLEZ (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 ~ 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"> • Quick start guide • USB cable • Power cord 		
Limited warranty	<ul style="list-style-type: none"> • Printer: 2 years • Print head: 25 km (1 million inches) or 12 months which comes first • Platen: 50 km (2 million inches) or 12 months which comes first 		
Factory options	<ul style="list-style-type: none"> • GPIO + Parallel interface • Internal Bluetooth module 		
Dealer options	<ul style="list-style-type: none"> • 802.11 a/b/g/n wireless module kit (slot-in) 		
User options	<ul style="list-style-type: none"> • KP-200 Plus keyboard display unit 		



MH240P



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