



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-EZ firmware for plug-n-play ease
- Options include: internal rewinding kit, peel-off kit, 5” O.D. internal rewinding 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

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 rewinder (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"> • 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 x 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, 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-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 mm – 114 mm (0.79" – 4.5")		
Media thickness	0.06 mm – 0.28 mm (2.36 – 11 mil)		
Media core diameter	25.4 mm – 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°C–40°C, 25–85% non-condensing Storage: -40°C–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 • Regular cutter (full cut guillotine cutter) • Heavy duty cutter (full cut guillotine cutter) • Care label cutter 		
Dealer options	<ul style="list-style-type: none"> • Peel-off kit • 5" O.D. internal rewinder • 802.11 a/b/g/n wireless module kit (slot-in) • Internal rewinding kit (5" O.D.) 		
User options	<ul style="list-style-type: none"> • KP-200 Plus keyboard display unit 		



MH240



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 rewinder (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"> • 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 x 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-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 mm – 114 mm (0.79" – 4.5")		
Media thickness	0.06 mm – 0.28 mm (2.36 – 11 mil)		
Media core diameter	25.4 mm – 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°C–40°C, 25–85% non-condensing Storage: -40°C–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) • Care label cutter • Peel-off kit • 5" O.D. internal rewinder • 802.11 a/b/g/n wireless module kit (slot-in) • Internal rewinding kit (5" O.D.) 		
User options	<ul style="list-style-type: none"> • KP-200 Plus keyboard display unit 		



MH240T



MH240 SERIES – Industrial Thermal Transfer Bar Code Printer

PRINTER MODEL	PREMIUM		
	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 x 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 • 1D bar code 		
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 <ul style="list-style-type: none"> • 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-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 mm – 114 mm (0.79" – 4.5")		
Media thickness	0.06 mm – 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°C–40°C, 25–85% non-condensing Storage: -40°C–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	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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