TSC
The Smarter Choice.

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 rewinder (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	• 128 MB Flash memory • 128 MB SDRAM • microSD Flash memory card reader for Flash memory expansion, up to 32 GB		
Interface	• 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 • 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	• 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	• 8 alpha-numeric bitmap fonts • Monotype Imaging® true type font engine with one CG Triumvirate Bold Condensed scalable font		
Bar code	• 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	• 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	• GPIO + Parallel interface • Internal Bluetooth module		
Dealer options	• 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	• KP-200 Plus keyboard display unit		

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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	• 512 MB Flash memory • 256 MB SDRAM • microSD Flash memory card reader for Flash memory expansion, up to 32 GB		
Interface	• 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 • 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	• 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	• 8 alpha-numeric bitmap fonts • Monotype Imaging® true type font engine with one CG Triumvirate Bold Condensed scalable font		
Bar code	• 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	• 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	• GPIO + Parallel interface • Internal Bluetooth module		
Dealer options	• 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	• KP-200 Plus keyboard display unit		

MH240T

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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	• 512 MB Flash memory • 256 MB SDRAM • microSD Flash memory card reader for Flash memory expansion, up to 32 GB		
Interface	• 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 • 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	• 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	• 8 alpha-numeric bitmap fonts • Monotype Imaging® true type font engine with one CG Triumvirate Bold Condensed scalable font		
Bar code	• 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	• 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	• GPIO + Parallel interface • Internal Bluetooth module		
Dealer options	• 802.11 a/b/g/n wireless module kit (slot-in)		
User options	• KP-200 Plus keyboard display unit		

MH240P

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