

PRODUCT SPECIFICATION

STANDARD FEATURES

Dimensions:	Height - 12.5" (318 mm) Width - 12.0" (305 mm) Depth - 13.0" (330 mm) Weight - 21 lbs. (9.5 kg) Shipping Wt. - 25 lbs. (11.4 kg)
w/Optional Metal Cover: (H x W x D)	13.0" (330 mm) x 12.5" (318 mm) x 17.3" (439 mm) Weight - 29 lbs. (13.2 kg) Shipping Wt. - 34 lbs. (15.5 kg)
Printhead:	4.0" (102 mm/812 dots) 203 dots/inch (8 dots/mm) OR 300 dots/inch (11.8 dots/mm) Both printheads provide enhanced print quality
Display:	2-line; 16 character
Processor:	32-Bit 90 MHz Processor Faster imaging than 9840 printer
Memory:	4 Meg Flash, 8 Meg SDRAM, and 512K SRAM; Configurable RAM using these buffers: Transmit, Receive, Image, Format, Downloadable & Scalable Fonts
Print Ratio:	30% black max. per square inch
Standard Fonts:	Standard, Reduced, Bold, OCRA-like, CG Triumvirate, EFF Swiss Bold (TrueType®), CG Triumvirate Bold Supports downloaded double-byte (TrueType and bitmap) fonts, allowing for Chinese, Japanese, and Korean character sets.
PC/Host Interface:	Asynchronous RS-232C None, XON/XOFF, CTS, or DTR flow control 1200, 2400, 4800, 9600, 19200, 38400, 57600, or 115200 Baud ASCII Data transmission code IEEE-1284 Parallel
Font Magnification:	1x to 7x 4 to 250 pt. for scalable/TrueType fonts
Printer Warranty:	One (1) year parts and labor
Printhead Warranty:	1 million inches or six months, whichever occurs first. 100,000 inches with High Energy Ribbon.

SUPPLIES

Only Monarch® supplies are recommended. Use non-perfed supplies in peel mode. High energy (TUFFMARK®) supplies are available.

Width: 0.75" to 4.0" (19 mm to 102 mm)

Length: 0.32" to 17.5" (8 mm to 445 mm)
Roll length is 7,872" (200 meters).

Maximum Print Area: 4.0" x 16.0" (102 mm x 406 mm) with the 203 dpi printhead
4.0" x 13.0" (102 mm x 330 mm) with the 300 dpi printhead

Larger images (up to 16 feet) can be printed using continuous supply and reallocating memory.

Ribbon Sizes:

Ribbon Widths	Use with max. supply width
1.5" (38 mm)	1.3" (33 mm)
1.8" (46 mm)	1.5" (38 mm)
2.3" (58 mm)	2.0" (51 mm)
3.3" (84 mm)	3.0" (76 mm)
4.3" (110 mm)	4.0" (102 mm)
TUFFMARK® 2.3" (58 mm) 4.3" (110 mm)	2.0" (51 mm) 4.0" (102 mm)

Ribbon Length: 23, 616" (600 meters)

About Ribbons: The width of the ribbon must be greater than the supply width. Since some supplies are more abrasive to printheads than others, using a ribbon wider than your supply helps protect the printhead.

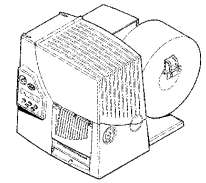
ENVIRONMENT RANGES

Temperature: Operating Thermal Transfer: 40° to 95° F (4° to 35° C)
Operating Thermal Direct: 40° to 104° F (4° to 40° C)

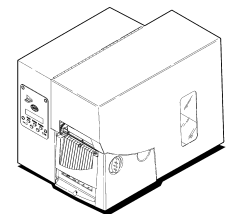
Storage: 15° to 120° F (-10° to 49° C)

Humidity/ Operating and Storage: 5% to 90% non-condensing

Monarch® 9850™ Printer



TABLETOP PRINTER
THERMAL DIRECT OR TRANSFER
ON-DEMAND OR CONTINUOUS
PRINTS TAGS OR LABELS
OPERATES ONLINE
ENHANCED PRINT QUALITY
FASTER IMAGING THAN MONARCH® 9840™ PRINTER
PRINTS AT 12 IPS
OPTIONAL 300 DPI PRINTING
OPTIONAL MONARCHNET™ ETHERNET CARD FOR TCP/IP CONNECTIVITY
METAL COVERS AVAILABLE



Monarch®
PAXAR
www.monarch.com

Standard Bar Code Symbolologies (shown in 203 dpi density):

Barcode Type	Narrow to Wide Ratio	%Density or CPI	Narrow Element (dots/mils)	Data Length
UPCA +2/+5	1:1.0	76%, 114%	2/9.9, 3/14.8	11 or 12, 14/17
UPCE +2/+5	1:1.0	76%, 114%	2/9.9, 3/14.8	6 or 7, 9/12
EAN8 +2/+5	1:1.0	76%, 114%	2/9.9, 3/14.8	7 or 8, 10/13
EAN13 +2/+5	1:1.0	76%, 114%	2/9.9, 3/14.8	12 or 13, 15/18
Interleaved 2 of 5	1:30	1.1, 3.2, 5.6, 7.5, 11.0, 11.2	21/103.4, 7/34.5, 4/19.7, 3/14.8, 2/9.9, 2/9.9	0 to 2710
	1:2.5	2.1, 4.2, 6.3, 12.7	12/59.1, 6/ 29.6, 4/19.7, 2/9.9	
	1:2.3	8.8	3/14.8	
	1:2.0	9.6, 14.5	3/14.8, 2/9.9	
Extended Code 39	1:30	4.2, 6.3, 12.7*	3/14.8, 2/9.9, 1/4.9	0 to 2710
	1:2.5	1.4, 1.7, 3.5, 7.0	10/49.3, 8/39.4, 4/19.7, 2/9.9	
	1:2.2	3.0	5/24.6	
	1:2.0	3.9	4/19.7	
Codabar (NW7)	1:3.0	2.1, 8.4	8/39.4, 2/9.9	0 to 2710
	1:2.5	3.0, 4.6, 9.2	6/29.6, 4/19.7, 2/9.9	
	1:2.0	5.1, 10.1	4/19.7, 2/9.9	
Code 128	1:1.0	3.5/7.0, 4.4/8.7, 5.8/11.7, 8.7/17.5	5/24.6, 4/19.7, 3/14.8, 2/9.9	0 to 2710
Code 93	N/A	3.7	6/29.6	0 to 2710
		4.5	5/24.6	
		5.6	4/19.7	
		7.5	3/14.8	
		11.2	2/9.9	
MSI	1:2.5	7.2	2/9.9	0 to 2710
	1:2.0	4.2, 5.6	4/19.7, 3/14.8	

* Parallel bar codes only for special application. Code 39, density 12, produces a one-dot narrow bar. This density is intended for special U.S.P.S. ACT-tag applications only.

Barcode Type	Aspect Ratio	Security Level	Element Width (dots/mils)	Row Height (dots/mils)	Data Length
PDF417	1:1.0	0-8	2/9.8, 3.14/8, 4/19.7	2/9.8, 3.14/8, 4/19.7	0 to 2709
	1:2.0		2/9.8, 3.14/8, 4/19.7	4/19.7, 6/29.6, 8/39.4	
	1:3.0		2/9.8, 3.14/8, 4/19.7	6/29.6, 9/44.3, 12/59.1	

Barcode Type	Density	Narrow Element (dots/mils)	Narrow to Wide Ratio	Data Length
Postnet	24/118.2	10/49.3	4/19.7 (5 dot gap)	0,5,6,9 or 11
MaxiCode	N/A	N/A	N/A	0 to 99
Data Matrix (ECC-200)	N/A	Square symbols: 10 rows x 10 col.	Rectangular symbols: 8 rows x 18 col.	3-2335 (alpha)
		144 rows x 144 col.	16 rows x 48 col.	6-2710 (num)

Barcode Type	Data Length
Quick Response Models 1 and 2	Model 1: 0-1167 Numeric; 0-707 Alphanumeric; 0-486 8-Bit; 0-299 Kanji Model 2: 0-2710 Numeric, Alphanumeric, and 8-Bit; 0-1817 Kanji

PERFORMANCE

Power: Universal power supply for U.S. (115 V/60Hz) and International (230/100 V/50 Hz, 250 watts)

Printing Rate: 2.5 ips (64 mm) - default for serial bar codes, 6.0 ips (152 mm) - default for parallel bar codes, 8.0 ips (203 mm), 10.0 ips (254 mm) and 12.0 ips (305 mm) only with 203 dpi printhead. 203 dpi serial bar codes with narrow elements of 3 dots (or greater) can be printed at 4.0 ips.

In our ongoing effort to deliver the best technology, specifications are subject to change without notice. A copy of the applicable written Monarch warranty statement is available upon request.

SPECIAL CONSIDERATIONS

- The maximum print speed with 300 dpi is 8.0 ips.
- The maximum print speed with the knife is 6.0 ips, regardless of printhead density.
- The maximum speed for peeling labels is 8.0 ips.
- 94x5 emulation is not supported using 300 dpi.

OPTIONS

- 300 dpi printhead, Metal Cover, Peel Mode with On-Demand Sensor, Tear Bar, or Linerless
- M00415™ Rewind M00918™ Verifier (order printer with "Verifier Cover Option") M00926™ Knife M00928™ Stacker
- Internal and External MonarchNet™ Ethernet Print Server (supports Ethernet and TCP/IP)
- Internal Coax/TwinAx Protocol (Part#117532, Factory-installed option)