

PRODUCT SPECIFICATION

STANDARD FEATURES

Dimensions: Height - 12.5" (318 mm)
Width - 12.0" (305 mm)
Depth - 13.0" (330 mm)
Weight - 30 lbs. (13 kg)
Shipping Wt. - 34 lbs. (15.4 kg)

w/Optional Metal Cover: (318 mm) x 17.3" (439 mm)
(H x W x D) Weight - 40 lbs. (18 kg)
Shipping Wt. - 45 lbs. (21 kg)

Printhead: 4.0" (102 mm/812 dots)
203 dots/inch (8 dots/mm) OR
300 dots/inch (11.8 dots/mm)

Buffers Available (1280K Total): Transmit, Receive, Image, Internal, Format, Downloadable Fonts, Scalable Fonts.
(All buffers except Internal are user definable.)

Processor: 32-Bit 20 MHz RISC Processor

Print Ratio: 30% black maximum per square inch

Standard Fonts: Standard, Reduced, Bold, OCRA-like, CG Triumvirate, EFF Swiss Bold (scalable), CG Triumvirate Bold

PC/Host Interface: Asynchronous RS-232C
None, XON/XOFF, CTS, or DTR flow control
1200, 2400, 4800, 9600, 19200, or 38400 Baud
ASCII Data transmission code
IEEE-1284 Parallel

Font Magnification: 1x to 7x
4 to 90 pt. for scalable font

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.

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

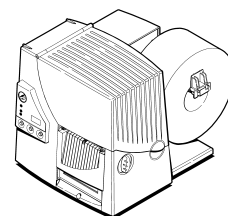
Barcode Type	Narrow to Wide Ratio	%Density or CPI	Narrow Element (dots/mils)	Data Length
UPCA +2/+5	1:1.0	76%, 114%	2/9.9, 3/14.8	11 or 12, 14/17
UPCE +2/+5	1:1.0	76%, 114%	2/9.9, 3/14.8	6 or 7, 9/12
EAN8 +2/+5	1:1.0	76%, 114%	2/9.9, 3/14.8	7 or 8, 10/13
EAN13 +2/+5	1:1.0	76%, 114%	2/9.9, 3/14.8	12 or 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	3.7/7.4, 4.6/9.2, 6.1/12.3, 9.2/18.4	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.

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	

Monarch®
9840™ Printer

TABLETOP PRINTER
THERMAL DIRECT OR TRANSFER
ON-DEMAND OR CONTINUOUS
PRINTS TAGS OR LABELS
OPERATES ONLINE
METAL COVERS AVAILABLE
OPTIONAL 300 DPI PRINTING



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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 the optional 300 dpi printhead is 6.0 ips.
- ◆ The maximum print speed with the optional knife is 6.0 ips, regardless of the printhead density.
- ◆ The maximum supply and image length with the optional 300 dpi printhead is 12.0 inches (305 mm).
- ◆ 94x5 emulation is not supported using 300 dpi.
- ◆ You cannot peel labels at 8.0 ips using the optional 300 dpi printhead; however, you can peel labels at 8.0 ips using the standard 203 dpi printhead.
- ◆ Premium supplies (coated paper or synthetic tags with PM255 ribbon) are recommended for 300 dpi applications.
- ◆ Reduced fonts (smaller than 10 point), high density bar codes, or serial bar codes should not be printed at 8.0 ips.

Barcode Type	Data Length	Density Selector	Element Width (dots/mils)	Row Height (dots/mils)	Short Element (dots/mils)
Postnet	0, 5, 6, 9, 11	0 (fixed at 4.3 cpi)	4/19.7 (5 dot gap)	24/118.2	10/49.3
MaxiCode	99	7	N/A	N/A	N/A
Data Matrix (ECC-200)	3-2335 (alpha) 6-2710 (num)	1-30	Square symbols: 10 rows x 10 col. 144 rows x 144 col.	Rectangular symbols: 8 rows x 18 col. 16 rows x 48 col.	N/A

SUPPLIES

Only Monarch® supplies are recommended; use thermal direct stock or thermal transfer stock with ribbon. Die cut, black mark, non-indexed (continuous), and aperture supplies are available. Use non-perfed supplies for peel mode.

Supply Sizes: Widths - 0.75" to 4.0" (19 mm to 102 mm)
Lengths - 0.32" to 16" (8 mm to 406 mm)
Supply roll length is 7,872" (200 meters).
High energy supplies are also available.

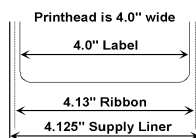
Maximum Print Area: 4.0" x 16.0" (102 mm x 406 mm) with the standard 203 dpi printhead
4.0" x 12.0" (102 mm x 305 mm) with the optional 300 dpi printhead

Ribbon Widths: 1.3" (33 mm), 1.6" (41 mm)
2.16" (55 mm), 3.15" (80 mm)
4.13" (105 mm)

High energy TUFFMARK® ribbons are available in 2" or 4" widths.
Ribbon roll length is 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. Replacement printheads are expensive.



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
Electrostatic Discharge and Air Quality:

Some problems with electronic equipment may occur in environments prone to static discharge or extreme dust conditions. Monarch suggests that you take precautions to minimize these problems.

PERFORMANCE

Power: U.S. - 115 V/60Hz, 250 Watts nominal
International - 230 V/50 Hz or 100V/50 Hz

Printing Rate: 2.5" (64 mm) per second (default for serial bar codes)
4.0" (102 mm) per second
6.0" (152 mm) per second (default for parallel bar codes)
8.0" (203 mm per second) (only with 203 dpi printhead)

Serial bar codes printed at speeds greater than 2.5 inches per second may not scan properly.

OPTIONS

- ◆ 300 DPI printhead
- ◆ Internal Coax/TwinAx Protocol (Part#117532, Service-installable)
- ◆ LAN Print Server - Supports Ethernet, AppleTalk, IPX, NetBios/NetBEUI, TCP/IP. RJ-45 Connector (10 Base T, Part#11753101) or BNC Connector (10 Base 2, Part#11753102)
- ◆ Peel Mode with On-Demand Sensor
- ◆ M00917™ Keypad, M00918™ Verifier, M00926™ Knife, M00928™ Stacker
- ◆ Replacement Printhead Kits
- ◆ High Energy Ribbon (TUFFMARK)
- ◆ Ribbon Take-Up Core (Part# 11796120, 30, or 40; available in 2", 3", or 4" widths)
- ◆ Metal Cover
- ◆ Monarch® Font Utility software (converts TrueType™ fonts). Refer to our Web site (www.monarch.com) for more information.