

PRODUCT SPECIFICATION

STANDARD FEATURES

Dimensions: Height - 8.7" (221 mm)
 Width - 8.1" (206 mm)
 Depth - 2.8" (71 mm)
 Weight (with battery) - 4.1 lbs.
 (1.9 kg)

Printhead: 4" (102 mm/768 dots)
 192 dots/inch (7.5 dots/mm)

PC/Host Interface:

- ◆ Asynchronous RS-232C
- ◆ XON/XOFF, CTS or DTR flow control
- ◆ 1200, 2400, 4800, 9600, 19200 Baud
- ◆ ASCII Data transmission code

Buffers Available (335K total): Transmit, Receive, Formats, Image, Scalable Fonts, Downloadable Fonts, Internal

All buffers except Internal are user definable.

Character Sets Available:

- Monarch Internal
- ANSI
- DOS Code Page 437
- DOS Code Page 850

Fonts Available: Standard, Reduced, Bold, OCRA-like, CG Triumvirate, CG Triumvirate Bold*

*Also available as a scalable font

Magnification available for all fonts:

- 1x to 7x (bitmapped fonts)
- 4 pt to 200 pt (scalable font)

Black to White Print Ratio:

20% black maximum per square inch

Memory:

- 1024K Flash
- 512K RAM

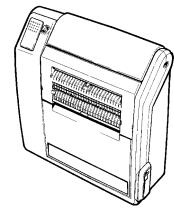
Bar Code Symbolologies Available: This printer prints high-density bar codes in the serial direction.

Barcode Type	Narrow to Wide Ratio	%Density or CPI	Narrow Element (dots/mils)	Data Length
UPCA +2/+5	1:1.0	80%, 120%	2/10.4, 3/15.6	11 or 12, 14/17
UPCE +2/+5	1:1.0	80%, 120%	2/10.4, 3/15.6	6 or 7, 9/12
EAN8 +2/+5	1:1.0	80%, 120%	2/10.4, 3/15.6	7 or 8, 10/13
EAN13 +2/+5	1:1.0	80%, 120%	2/10.4, 3/15.6	12 or 13, 15/18
Interleaved 2 of 5	1:3.0	1.0, 3.0, 5.3, 7.1, 10.6	21/109.4, 7/36.5, 4/20.8, 3/15.6, 2/10.4	0 to 2710
	1:2.5	2.0, 4.0, 6.0,	12/62.5, 6/31.3, 4/20.8, 2/10.4	
	1:2.3	12.0	3/15.6	
	1:2.0	8.3, 9.1, 13.7	3/15.6, 2/10.4	
Extended Code 39	1:3.0	4.0, 6.0, 12.0**	3/15.6, 2/10.4, 1/5.2	0 to 2710
	1:2.5	1.3, 1.7, 3.3, 6.6	10/52.1, 8/41.7, 4/20.8, 2/10.4	
	1:2.2	2.8	5/26.0	
	1:2.0	3.7	4/20.8	
Codabar (NW7)	1:3.0	2.0, 7.7	8/41.7, 2/10.4	0 to 2710
	1:2.5	2.9, 4.3, 8.4	6/31.3, 4/20.8, 2/10.4	
	1:2.0	4.7, 9.6	4/20.8, 2/10.4	
Code 128 or Code 16K	1:1.0	3.5/7.0, 4.4/8.7, 5.8/11.7, 8.7/17.5	5/26.0, 4/20.8, 3/15.6, 2/10.4	0 to 2710
Code 93	N/A	3.6, 4.3, 5.3, 7.1, 10.7	6/31.2, 5/26.0, 4/20.8, 3/15.6, 2/10.4	0 to 2710
MSI	1:2.5	6.9	2/10.4	0 to 2710
	1:2.0	4.0, 5.3	4/20.8, 3/15.6	

** Parallel only for special application.

Monarch® Renegade® 4 Printer

TABLETOP PRINTER
 THERMAL DIRECT AND
 THERMAL TRANSFER
 OPERATES ONLINE
 PRODUCES 4" X 6"
 TAGS/LABELS



Monarch®
PAXAR

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.

Barcode Type	Aspect Ratio	Security Level	Element Width (dots/mils)	Row Height (dots/mils)	Data Length
PDF417	1:3.0	0 - 8	2/10.4, 3/15.6, 4/20.8	6/31.3, 9/46.9, 12/62.5	0 to 2710
	1:2.0		2/10.4, 3/15.6, 4/20.8	4/20.8, 6/31.3, 8/41.7	
	1:1.0		2/10.4, 3/15.6, 4/20.8	2/10.4, 3/15.6, 4/20.8	
Maxicode	N/A	N/A	N/A	N/A	15 to 99

Barcode Type	Data Length	CPI	Element Width	Tall Element (dots/mils)	Short Element (dots/mils)
Postnet	0, 5, 6, 9, 11	4.3	4/20.8	24/125.0	10/52.1

SUPPLIES

Only Monarch supplies are recommended; use thermal direct stock or thermal transfer stock with ribbon.

For high-density and serial bar codes, Monarch "premium" supplies are recommended.

Ribbon Widths: 2.0" (51 mm)
3.0" (76 mm)
4.0" (102 mm)

Supply Sizes: Widths - 2.0" (51 mm)
2.5" (64 mm)
3.0" (76 mm)
3.5" (89 mm)
4.0" (102 mm)
Lengths - 1.0" to 6.0"
(25 mm to 152 mm)

ENVIRONMENT RANGES

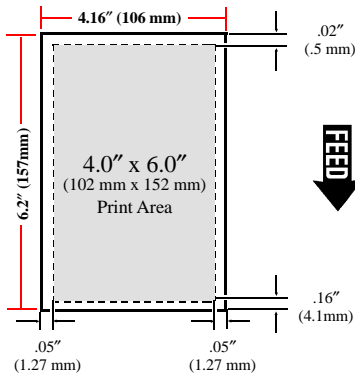
Temperature: Operating Thermal Transfer - 40° to 95° (4° to 35° C)

Operating Thermal Direct - 40° to 110° F (4° to 43° C)

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

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

Maximum Print Area:



PERFORMANCE

Power: 13.2VDC NiCad battery
U.S. - 110 V/60Hz, 230 Watts nominal
International - 220 V/50 Hz

Printing Rate: Parallel bar codes/
alphanumeric - 2.0" (64 mm) per second
Serial bar codes - 2.0" (64 mm) per second

Product Life: Five years.

Printer Warranty: One (1) year parts and one (1) year labor

Printhead Warranty: 1 million inches or six months, whichever occurs first.

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.

Contact your Monarch representative for recommended precautions.

OPTIONS

- 1-hour "Fast" Battery Charger
- 8-hour "Trickle" Battery Charger
- AC Adapter
- Cables (to various host devices)
- Heavy Duty Carrying Case
- Vehicle Mount (powered and non-powered)
- Optional Fonts
- Programmer's Kit
- Spare Batteries
- Documentation: U.S. Standard, International Standard, and MPCLII Programmer's Manual
- Protective Boot
- Loopback Plug (used to test the printer port)
- Internal RF (radio-frequency) communications
- Cable Cover (industrial version only)
- Fan-Fold Printing

Contact your Monarch representative for details.