

# PRODUCT SPECIFICATION

## STANDARD FEATURES

**Dimensions:** Height - 5.8" (147 mm)  
Width - 3.6" (91 mm)  
Depth - 4.8" (122 mm)  
Weight - 1.6 lb. (.73 kg)  
Shipping Weight - 3.1 lb.  
(1.4 kg)

**Printhead:** 1.89" (48 mm)  
203 dpi (8 dots per mm)

**Operator Interface:** On/Off, Feed, and three context-sensitive keys

**Display:** Multi-line graphical LCD with backlight and adjustable contrast

**Serial Port:** RS-232 (9 pin)

**Print Ratio:** 30% black maximum per square inch

**Memory:** 512K RAM and 1MB Flash

**Buffers Available:** Transmit, Receive, Image, Internal, Format, Downloadable Fonts, Scalable Fonts

All buffers except Internal are user definable.

**Standard Fonts:** 42 fonts, including: Standard, Reduced, Bold, OCRA-like, EFF Swiss Bold\*, HR1, and HR2 (HR1 and HR2 are only for numeric data.)

\*Also available as a scalable font. The printer supports Bitmapped, TrueType™, and International fonts.

**Font Magnification:** 1 x - 7x for bitmapped fonts  
4 - 250 point for TrueType™ and scalable fonts

## Standard Bar Code Symbolologies

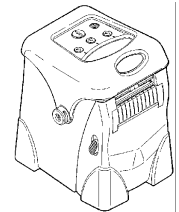
This printer also prints high-density bar codes and bar codes in the serial direction.

Barcode Type	Narrow to Wide Ratio	%Density or CPI	Narrow Element (dots/mils)	Data Length
UPCA +2/+5	1:1.0	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	
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.

**Monarch®**  
**Sierra Sport2™**  
**9460™ Printer**

PORTABLE  
THERMAL DIRECT  
OPTIONAL RF/IrDA  
COMMUNICATIONS  
SUPPORTS MPCLII  
AND RCL  
PRINTS UP TO 3" (76 MM)  
PER SECOND  
SUPPORTS LINES, BOXES,  
AND GRAPHICS  
USES PAPER, SYNTHETIC,  
OR LINERLESS SUPPLY



**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	1:1.0	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	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

## SUPPLIES

Only Monarch® supplies are recommended. For high density and serial bar codes, Monarch "premium" supplies are recommended. The printer supports die cut, black mark, and non-indexed supplies.

**Supply Sizes:** Widths - .5" (13 mm) to 2" (51 mm) in continuous mode  
.5" (13 mm) to 2.05" (52 mm) in peel mode  
Tag/Receipt Paper Width - .5" (13 mm) to 2" (51 mm)  
Length (for all supplies) - .375" (9.5 mm) to 12" (305 mm)

**Max. Print Area:** 1.89" (48 mm) x 12" (305 mm)  
**Roll Size:** 850" (21590 mm) linerless  
580" (14732 mm) standard

## PERFORMANCE

**Printing Rate:** Up to 3" (76 mm) per second

**Battery Type:** 7.4V Lithium Ion

**Inches per charge:** 5000+" (1270 m) of 25% black printing on the supply.

**Battery Cycle Life:** Approximately 300+ full discharge cycles.

Cycle life is approximate. Many factors effect an individual battery's performance.

**Warranty:** One year parts and labor (ship-in)

### Recommended Duty Cycle:

33% Duty Cycle (5 minutes out of 15 minutes time intervals). On-demand or intermittent printing has no restrictions.

## ENVIRONMENT RANGES

**Temperature:** 40°F to 104°F (4°C to 40°C)

**Humidity:** 5% - 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. Contact your Monarch representative for recommended precautions.

## OPTIONS

- RF and IrDa Communications
- M09461™ Single Station Charger
- M09464™ Four-Station Charger (compatible with the symbol® UBC 2000charger)
- M09463™ AC Power Supply (110-240V)
- Null modem cable (for communications with a PC- 9-pin or 25-pin).
- Monarch® MPCL™ Toolbox Utility available on Monarch's Web site ([www.monarch.com](http://www.monarch.com))
- Shoulder Strap, Hand Strap, Hip Strap and Clip
- Documentation (also on Web site)