



## HR2

### HIGH PRECISION & HIGH RESOLUTION PRINTING

#### FEATURES

- High Precision Printing
- High Resolution Printing
- Industrial Space-Saving Design
- Integrated Dispenser with Internal Liner Rewinder
- Easy Media Loading
- Multiple Communication Interfaces

#### APPLICATIONS

- Mobile Phone and Laptop Batteries Labelling
- Electronic Components and Circuit Boards (PCB) Labelling
- Cosmetics and Small Bottles Labelling
- Serial Numbered Nameplates

# TECHNICAL INFORMATION

## HR212/HR224

PRINTING SPECIFICATION		HR212	HR224
Printing Method		Thermal Transfer	
Print Resolution		12 dots / mm (305 dpi)	24 dots / mm (609 dpi)
Max. Print Speed		25 to 100mm/sec (1 to 4ips)	
Max. Print Area	Width, mm (inch)	56mm (2.2")	
	Length, mm (inch)	200mm (7.9")	
Processor		32bit RISC	
Printer Memory		Main memory (Flash ROM): 32MB, SDRAM: 16MB, SD card (Up to 2GB)	

CONSUMABLES SPECIFICATION (Recommended to use printer supplies manufactured or certified by SATO)			
Sensor Type		I-Mark Sensor (Reflective), Label Gap Sensor (Transmissive)	
Media Type		Roll type	
Media Thickness		0.130 - 0.220mm (0.005" to 0.008")	
Label Shape	Diameter	Max. outside diameter: Ø 185mm (7.3"), Core diameter: Ø 76.4mm (3.0")	
	Wind Direction	Face-out	
Label Size	Continuous	Width	7 to 58mm (0.3" to 2.3"), Including liner : 10 to 61mm (0.4" to 2.4")
		Length	3 to 197mm (0.1" to 7.7"), Including liner : 6 to 200mm (0.2" to 7.8")
	Tear-Off	Width	7 to 58mm (0.3" to 2.3"), Including liner : 10 to 61mm (0.4" to 2.4")
		Length	3 to 197mm (0.1" to 7.7"), Including liner : 6 to 200mm (0.2" to 7.8")
	Dispenser	Width	7 to 58mm (0.3" to 2.3"), Including liner : 10 to 61mm (0.4" to 2.4")
		Length	3 to 197mm (0.1" to 7.7"), Including liner : 6 to 200mm (0.2" to 7.8")
Ribbon	Size	Max. outer diameter Ø51mm (2.0"), Max. Length 150m (492.1ft), Ribbon width : 39.5mm (1.55"), 45mm (1.77"), 59mm (2.32"), 65mm (2.55"),	
	Other	Wind direction : Face-in, Core Diameter: 25,4mm (1.0")	

FONTS / SYMBOLOGIES		
Internal Fonts	Standard Bitmap	U (5x9 dot), S (8x15 dot), M (13x20 dot)
	TTF Fonts	CG Times; CG Triumvirate
Barcode	1D Barcode	UPC-A/E, JAN/EAN-8/13, Code 39, Code 93, Code 128, GS1-128 (UCC/EAN128), Codabar (NW-7), Interleaved 2 of 5, Matrix 2 of 5, GS1 DataBar (RSS14)
	2D Barcode	QR code (Ver8.1), MicroQR, PDF417 (Ver2.4), MicroPDF, MAXI code (Ver3.0), DataMatrix (ECC200), Security QR code
Print Direction	Character Data / Barcode	Character data rotation: 0°, 90°, 180°, 270° Barcode rotation: 0°, 90°, 180°, 270°

INTERFACE CHARACTERISTICS AND INTEGRATION		
Interfaces	RS232	RS232C Standard (XON/XOFF, RTS/CTS)
	USB	USB Device type B connector 2.0 High Speed
	LAN	Ethernet 10/100 Mbps / DHCP, TCP/IP
	EXT	Amphenol D-Sub14pin female
Supported printer protocols		Standard: SBPL (Ver 4.2) SATO Barcode Printer Language.

OPERATING CHARACTERISTICS		
Power Requirements		AC100V ~ AC240V±10%
Dimensions		197mm (7.75") x 365mm (14.37") x 285mm (11.22")
Weight		16.4Kg (36.16 lbs.)
Environment	Operating	0 – 40 °C (32 to 104 F) / 10 – 80 % RH (without condensation)
	Storage	-5 – 60 °C (23 to 140 F) / 10 – 90 % RH (without condensation)

MISCELLANEOUS	
Certifications	CE, CCC, ROHS compliant
Regulatory Approvals	Noise: Emission – EN55024
Functions – Useful features	Status return function, Sequential number function, Black/white inversion function, Format registration function
Functions – Self Diagnosis Checking	Thermal head check, Paper end detection, Ribbon end detection, Cover open detection, Test print, Re-winder full detection, Head Lift detection

OPTIONS	
Accessories	SD Card, NiceLabel

SATO makes no guarantee that the above features are available in all models, and specifications are liable to change, without notice. version 09/13.

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