



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.