

# M-5900

## Industrial Direct Thermal Printer

- Heavy-Duty Industrial Construction
- High Reliability, Low Maintenance
- New Print Head Quadruples Anticipated Print Life
- 203 DPI Resolution
- User Friendly Operation
- Wide Selection of Bar Widths, Densities, and Ratios
- Affordably Priced



SATO's revolutionary new M-5900 Direct Thermal Printer yields high quality labels and tags while dramatically reducing overall printing costs. The low operating cost and long list of features makes the M-5900 the ideal solution for many cost sensitive industrial applications such as shipping and tracking.

The M-5900 incorporates a print head designed for long life direct thermal printing. Its warranty and expected life are many times the typical current industry standards. With a warranty of one year or 2 million inches and an expected life of up to 4 million inches, print head replacement cost savings alone will more than pay for the printer when compared to other available printers.

Improved thermal papers with UV resistance up to 3 times the industry standards can be used in the M-5900 for long lasting labels.

The M-5900's low price combined with its high quality and industrial construction make a powerhouse printer affordable. It prints labels up to 5" wide with a print area of 4.4" wide by 13" long at 203 DPI and speeds up to 4.7" per second. The printer includes an array of fonts and bar codes for maximum design flexibility and combines ease of use with construction to SATO standards for heavy-duty industrial use.

### M-5900 Specifications

**Print Method:**

Direct thermal

**Printing Speed:**

Up to 4.7" per second

**Print Resolution:**

203 dpi (8 dpmm)

**Print Area:**

4.4" (112 mm) W x 13" (330 mm) L, up to 49.2" (1249 mm) L with 2Mb expanded memory.

**Bar Code Symbologies:**

UPC-A, UPC-E, EAN-8, EAN-13, UPC/EAN 2 and 5-digit Addendums (Bookland), Code 39, Interleaved 2 of 5, Code 128, (A,B,C) Codabar, Code 93

**Bar Code Ratio:**

2:1, 3:1, 5:2 or individually adjustable bar widths.

**Bar Code Height:**

Programmable

**Human Readable Fonts:**

Five proportional and mono-spaced fonts, including OCR-A and OCR-B, and an outline vector font. American and European character sets, upper and lower case with descenders and ascenders.

**Flexibility:**

Rotation of text and bar codes in four 90° steps, character expansion horizontally and vertically in 8 steps, RAM storage for special characters, dot-addressable graphics and sequential numbering. Form overlay for high speed editing of complex formats.

**Graphic Support:**

SATO Hex/binary and PCX formats

**Media:**

Roll or fan-fold die cut labels; thermally sensitive coated, SATO standard or equivalent. Tag stock with punched feed slot for see-through sensing or sense mark for reflective sensing.

Maximum Caliper : 0.01" (0.25 mm)

Maximum Roll Diameter: 6" (178 mm)

**Sensing:**

Fixed position transmissive sensor for die cut labels and tags. Reflective sensor for use with preprinted sensing marks. Automatic, programmable setting of top of form.

**Media Size:**

Minimum: 1.18" (30 mm) W x 0.51" (13 mm) L

Maximum: 5.04" (128 mm) W x 13" (330 mm) L, 49.2" (1249 mm) with 2Mb expanded memory.

**Interface:**

RS232C; 2400 - 19.2K bps, X-On/X-Off software flow control, DTR/Busy hardware flow control

**External Connectors:**

Serial: DB25F

EXT (Accessory): 14-pin Amp

**Data Transmission:**

ASCII

**Print Control:**

User programmable via data stream

**Switches and Displays:**

Switches: On/Off Line, Power On/Off, Label Feed

LED indicators: On Line, Alarm, Power On

Adjustments: Pitch, Back Feed, Print Heat

Configuration: 2x8 DIP Switch

**Weight:**

21.5 Lbs. (9.8 Kg)

**Dimensions (overall):**

10" (260 mm) W x 13" (320 mm) D x 10" (260 mm) H

**Input Power:**

100-115 VAC +/-10%; 220 VAC +/-10%, 50/60 Hz +1%

**Environment:**

Operating: 40° to 100°F (5° to 40°C), 10 to 90% RH, non-condensing

Storage: 0° to 140°F (0° to 45°C), 10 to 90% RH, non-condensing

ESD Immunity: 13KV

**Approvals:**

U/L CSA, FCC Class A

**Options:**

Cutter

Dispenser

Rewinder

PCMCIA Memory Expansion

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