



# WS4



DT Model



TT Model

Maximizing performance and investment for versatile desktop label applications.

## SATO, Beyond Expectations

SATO pursues World Standard desktop printer designed for various regional markets and vertical segments.

### *Easy to Use*

- Small Footprint Design
- High Speed Throughput (Max 6ips Print Speed)
- Easy Firmware Download via USB
- Toolless platen/head replacement (for DT model)
- 3 Color Status LED



### *Flexible Label / Ribbon Capability*

- 300m Ribbon Capability
- Face In/Face Out Label and Ribbon
- Adjustable Imark Sensor
- 0.5"/1" Ribbon Core
- 1"/1.5" Label Core



### *Enhanced Connectivity*

- Multiple Interfaces Onboard
- Optional Bluetooth, Wireless LAN
- IPv4/IPv6 Support
- Multiple Emulation support (SZPL, SEPL, SDPL, SIPL)



# GENERAL SPECIFICATIONS

PRINT SPECIFICATIONS		WS408TT	WS412TT	WS408DT	WS412DT
Printing Method		Direct Thermal or Thermal Transfer		Direct Thermal Only	
Print Mode		Continuous, Tear-off, Dispenser, Cutter			
Print Resolution		203 dpi (8 dots/mm)	300 dpi (12 dots/mm)	203 dpi (8 dots/mm)	300 dpi (12 dots/mm)
Max. Print Speed		6ips(152.4mm/sec)	4ips(101.6mm/sec)	6ips(152.4mm/sec)	4ips(101.6mm/sec)
Max. Print Area	Width, mm (inch)	104mm(4.09")			
	Length, mm (inch)	999mm(39.33")			
CPU		32Bit RISC CPU(180MHz)			
Printer Memory		16MB ROM, 32MB RAM			

## CONSUMABLES SPECIFICATIONS (Recommended to use printer supplies manufactured or certified by SATO)

Sensor Type			I-Mark Sensor (Reflective), Label Gap Sensor (Transmissive)	
Media Type			Roll (Continuous, Die-cut), Fan-fold, Tag, Ticket	
Label Shape	Roll Diameter		Max : 127 mm (5"), Max for External Media Stand: 203.2 mm (8")	
	Core Diameter		φ25.4mm(1.0"), φ38.1mm(1.5")	
	Wind Direction		Face-In/Face-Out, No Setting Change Required	
Label Thickness			0.06mm (0.002") ~ 0.19mm (0.007")	
Label Size	Continuous Mode	Length	10 ~ 996 mm (including liner 13 ~ 999 mm)	10 ~ 996 mm (including liner 13 ~ 999 mm)
		Width	25.4 ~ 115 mm (including liner 28.4 ~ 118 mm)	25.4 ~ 115 mm (including liner 28.4 ~ 118 mm)
	Tear-Off Mode	Length	25.4 ~ 996 mm (including liner 28.4 ~ 999 mm) DT Mode: 30 ~ 996 mm (including liner 33~999mm)	25.4 ~ 996 mm (including liner 28.4 ~ 999 mm)
		Width	25.4 ~ 115 mm (including liner 28.4 ~ 118 mm)	25.4 ~ 115 mm (including liner 28.4 ~ 118 mm)
	Dispenser Mode	Length	25.4 ~ 152.4 mm (including liner 28.4 ~ 155.4 mm) DT Mode: 35 ~ 152.4 mm (including liner 38~155.4mm)	25.4 ~ 152.4 mm (including liner 28.4 ~ 155.4 mm)
		Width	25.4 ~ 115 mm (including liner 28.4 ~ 118 mm)	25.4 ~ 115 mm (including liner 28.4 ~ 118 mm)
	Cutter Mode	Length	25.4 ~ 996 mm (including liner 28.4 ~ 999 mm) DT Mode: 35 ~ 996 mm (including liner 38~999mm)	25.4 ~ 996 mm (including liner 28.4 ~ 999 mm)
		Width	25.4 ~ 115 mm (including liner 28.4 ~ 118 mm)	25.4 ~ 115 mm (including liner 28.4 ~ 118 mm)
Ribbon	Length		Max : 300m (984')	N/A
	Width		40 ~ 110 mm	N/A
	Core Diameter		φ12.7mm (0.5"), φ25.4mm (1")	N/A
	Wind Direction		Face-In/Face-Out, No Setting Change Required	N/A

## FONTS & SYMBOLOGIES

Internal Fonts	Standard Bitmap	XS, XU, XM, XB, XL, OCR-A, OCR-B, Chinese (GB18030, Big5), Korean (KSX001)
	Scalable Fonts	CG Times, CG Triumvirate™
Barcode	Linear	Code 39, Code 93, Code 128, CODABAR(NW-7), EAN8/13, GS1 DataBar™, GS1-128(UCC/EAN128), Interleaved 2/5, Industrial 2/5, JAN8/13, Matrix 2/5, MSI, Bookland, POSTNET™, UPC-A/E
	2D Symbolologies	PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, Data Matrix (ECC200), QR Code, Composite Symbolologies

## INTERFACE CHARACTERISTICS AND INTEGRATION

Standard Interfaces	USB2.0 (Type B), Ethernet(IPv4/IPv6), RS232C(Standard Model Only)
Optional Interface	Wireless LAN (IEEE 802.11b/g/n), Bluetooth 2.1
External Memory	USB Type A (For Firmware Download)
Remote Maintenance	SNMP Ver. 2
Supported Printer Protocols	Standard: SBPL(SATO Barcode Printer Language) Emulation Language: SZPL, SEPL, SDPL, SIPL
Drivers	Windows, Linux, Mac OS X, SAP Smart Forms
OPTIONS	Cutter, Dispenser, Wireless LAN, Bluetooth, External Media Stand, Real Time Clock (Factory Option)

## OPERATING & ENVIRONMENT CHARACTERISTICS

Electrical Requirements		Universal Auto-ranging Power Supply, 100-240VAC +/-10%, 50/60Hz
Standards & Certifications		EN60950-1, UL60950-1/CSA C22.2 No. 60950-1, RCM, CCC, KC, EAC, S-Mark
Agency Approvals		cULus, CE Marking, FCC, TUV GS, ICES-003, RCM, CCC, KC, EAC, S-Mark
Environment	Operating	5 to 40°C, 25-85% RH, Non Condensing
	Storage	-20 to 60°C, 10-90% RH, Non Condensing

## PHYSICAL CHARACTERISTICS

Dimensions	Width: 220.6mm (8.69"); Depth: 278.5mm (10.96"); Height: 187.5mm (7.38")	Width: 183.8mm (7.24"); Depth: 225.9mm (8.89"); Height: 166.0mm (6.54")
Weight	2.48kg (5.5lbs)	1.74kg (3.8lbs)

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