



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
- IPv4/IPv6 Support
- Multiple Emulation support (SZPL, SEPL, SDPL, SIPL)



GENERAL SPECIFICATIONS

PRINT SPECIFICATIONS		WS408TT	WS412TT	WS408DT	WS412DT
Printing Method		Thermal Transfer		Direct Thermal	
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	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, 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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