

# Widen your horizons in labelling.



## SG112-ex

Print large format labels at top speed

### Applications



**Manufacturing**



**Transport & Logistics**



**Automotive**



**Chemical**



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# SG112-ex Technical Specification\*

PRINTING SPECIFICATION		SG112-ex	
Printing Method		Thermal Transfer and Direct Thermal.	
Resolution		12 dots/mm (305 dpi).	
Print Mode	Standard Model	Continuous, Tear-off.	
	Cutter Model	Continuous, Tear-off, Cutter, Cut & Print.	
Max. Print Area	Width / Length, mm (inch)	266.7 mm (10.5") / 420 mm (16.5").	
Media Alignment		Centered.	
Print Speed		75, 100, 125, 150 mm/sec (3, 4, 5).	
CONSUMABLES SPECIFICATION (Recommended to use printer supplies manufactured or certified by SATO)			
Media Sensor type		I-Mark Sensor (Reflective) / Label Gap Sensor (Transmissive).	
Media Thickness (Label + Liner)		80 - 270µm (0.08 - 0.27mm) *Use media 120µm (0.12mm) or greater in thickness for Auto Feed mode *Use media 210µm (0.21mm) or lesser in thickness for Cutter option	
Media Type		Roll or fan-fold die cut labels.	
Roll Shape		Diameter maximum 200mm (8") on 76mm (3") internal core.	
Label Wind Direction		Face-in / Face-out.	
Ribbon	Width	145 ~ 273mm (5.7" to 10.7").	
	Length / Diameter	300m (984.25ft.) maximum / Ø 70.0mm maximum.	
	Core Diameter	Inside Diameter : Ø 25.6mm.	
	Wind Direction	Face-in.	
Label Size	Continuous	Width	128 ~ 297 mm (including liner 131 ~ 300 mm) / 5.0" ~ 11.7" (including liner 5.2" ~ 11.8").
		Length	30 ~ 420 mm (including liner 33 ~ 423 mm) / 1.2" ~ 16.5" (including liner 1.2" ~ 16.6").
	Tear Off	Width	128 ~ 297 mm (including liner 131 ~ 300 mm) / 5.0" ~ 11.7" (including liner 5.2" ~ 11.8").
		Length	40 ~ 420 mm (including liner 43 ~ 423 mm) / 1.6" ~ 16.5" (including liner 1.7" ~ 16.7").
	Tray (Cutter Model Only)	Width	128 ~ 297 mm (including liner 131 ~ 300 mm) / 5.0" ~ 11.7" (including liner 5.2" ~ 11.8").
		Length	40 ~ 117 mm (including liner 43 ~ 120 mm) / 1.6" ~ 4.6" (including liner 1.7" ~ 4.7").
	Cutter (Cutter Model Only)	Width	128 ~ 297 mm (including liner 131 ~ 300 mm) / 5.0" ~ 11.7" (including liner 5.2" ~ 11.8").
		Length	40 ~ 420 mm (including liner 43 ~ 423 mm) / 1.6" ~ 16.5" (including liner 1.7" ~ 16.7").
SYBBOLOGIES			
Linear Barcode		UPC-A, UPC-E, JAN/EAN, CODE39, CODE93, CODE128, GS1-128(UCC/EAN128), ISBT128, CODABAR(NW-7), ITF, Industrial 2of5, Matrix 2of5, MSI, POSTNET, BOOKLAND, GS1 DataBar Omnidirectional, GS1 DataBar Truncated, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Limited, GS1 DataBar Expanded, GS1 DataBar Expanded Stacked, Intelligent Mail Barcode (IMb). *GS1 DataBar was formerly called RSS.	
2D Code		QR Code (including Micro QR) PDF417 (including MicroPDF) MAXI Code(Ver.3.0) GS1 DataMatrix(ECC200 Ver.2.0).	
ELECTRICAL SPECIFICATION (Interface Characteristics)			
Interfaces	USB (Type A & B)	2.0 High Speed *Type A implemented in front of printer.	
	LAN	10BASE-T/100BASE-TX auto-switching Protocol TCP/IP : LPR, FTP, TELNET, SNMP, SNTIP, IPv4 / IPv6.	
	RS-232C	DSUB 9 pin.	
	IEEE1284	Amphenol 36 pin.	
	EXT	Amphenol 14 pin dedicated connector.	
	SD Card Slot	1 slot.	
	USB Type A	2.0 High Speed type A connector.	
On-Board Memory	(Flash ROM):	Standard Memory Size 40 MB User area 4.5 MB.	
	(SDRAM):	Standard Memory Size 64MB.	
CPU Type		32bit RISC-CPU 250MHz.	
LCD Specifications		Graphic LCD (Horizontal 128 dots x Vertical 64 dots) with backlight (White/Orange switchable), Displayed languages: English, Simplified Chinese, Japanese.	
LED Specifications		POWER(Green/Orange), ONLINE(Green), STATUS(Green/Red), LABEL(Red), RIBBON(Red).	
OPERATING CHARACTERISTICS			
Power Supply	Input Voltage / Frequency	AC100 V ~ 240 V ±10% (full range) / at 50/60 Hz.	
Size		W475mm x D313.4mm x H319.2mm (H515.5 mm with cover open). 164mm: Media exit area. 85.1mm: Tray (Cutter Model Only).	
Weight	Standard Model	Approx. 20.0Kg / 44.1 lbs. (Media/Ribbon excluded).	
	Cutter Model	Approx. 23.1Kg / 51 lbs. (Media/Ribbon excluded).	
Temperature	Operating Environment	5 ~ 40°C (Non-condensing).	
	Storage Environment	-5 ~ 60°C (Non-condensing).	
Humidity	Operating Environment	30 ~ 80% RH (Non-condensing).	
	Storage Environment	30 ~ 90% RH (Non-condensing).	
MISCELLANEOUS			
Operation Buttons		LINE, FEED, FUNCTION, ENTER, CANCEL Arrow buttons.	
Print Setting Tool		SATO-All-In-One-Tool.	
Standards & Agency Approvals		FCC Part 15 Subpart B Class A/ICES-003 Class A, CE(EN55032, EN55024), CCC(GB/T9254-2008, GB17625.1-2012) BSMI(CNS13438), UL 60950-1/CSA C22.2 No.60950-1, CE, Nemko-GS EN60950-1, CCC(GB4943.1-2011), BSMI(CNS14336-1), BIS(IS 13252).	
Self-diagnostic Function		Head breakage check, Label end detection, Ribbon end detection, Ribbon near end detection (Less than 15m), Cutter error (when cutter unit is installed).	
OPTIONS			
Accessories		RTC (Calendar) kitm Simple stacker (ST-10PLUS), External feed module (UW-10PLUS).	

\*Available in standard model and cutter model



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