



## CL4e / CL6e

SPEED AND ENDURANCE

### FEATURES

- /// High Speed Throughput
- /// 203 / 305 dpi
- /// 4 and 6 inch Print Width
- /// Multilingual Display
- /// Flexible Connectivity
- /// Powerful Memory
- /// Windows® Compatible
- /// RFID Ready and Upgradeable

### APPLICATIONS

- /// Logistics
- /// Distribution Centre
- /// Warehouse
- /// Manufacturing

# CL408e / CL412e / CL608e / CL612e

PRINTING SPECIFICATION		CL408e	CL412e	CL608e	CL612e
Printing Method		Direct or Thermal Transfer			
Print Resolution, dots/mm (dpi)		8 dots/mm (203dpi)	12 dots/mm (305dpi)	8 dots/mm (203dpi)	12 dots/mm (305dpi)
Max. Print Area	Width, mm (inch)	104mm (4.1")		152mm (6")	164mm (6.5")
	Length, mm (inch)	1249mm (49.2")	833mm (32.8")	1249mm (49.2")	833mm (32.8")
Print Speed, mm/sec (ips)		Up to 150mm/sec (6ips)		Up to 200mm/sec (8ips)	
CPU		32 bit RISC			
Printer Memory		18MB Standard with RAM storage for special characters, 4MB Flash Memory Module (option), 16MB PCMCIA (option)			

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 or fan-fold die cut labels, Plain paper face stock, Synthetics and Continuous stock				
Media Thickness		0.08 – 0.26mm (0.003" – 0.01")				
Label Shape	Diameter	Max. outside diameter: Ø 218mm (8.6"), Core diameter: Ø 38.1mm (1.5") or Ø 76.2mm (3")				
	Wind Direction	Face-in				
Label Size	Continuous	Width	22 – 128mm (0.87" – 5.04")	22 – 128mm (0.87" – 5.04")	47 – 177mm (1.85" – 6.97")	47 – 177mm (1.85" – 6.97")
		Length	6 – 1249mm (0.24" – 49.2")	6 – 833mm (0.24" – 32.8")	16 – 1249mm (0.63" – 49.2")	16 – 833mm (0.63" – 32.8")
	Tear-Off	Width	22 – 128mm (0.87" – 5.04")	22 – 128mm (0.87" – 5.04")	47 – 177mm (1.85" – 6.97")	47 – 177mm (1.85" – 6.97")
		Length	17 – 1249mm (0.67" – 49.2")	17 – 833mm (0.67" – 32.8")	21 – 1249mm (0.83" – 49.2")	21 – 833mm (0.83" – 32.8")
	Cutter	Width	22 – 128mm (0.87" – 5.04")	22 – 128mm (0.87" – 5.04")	47 – 177mm (1.85" – 6.97")	47 – 177mm (1.85" – 6.97")
		Length	17 – 1249mm (0.67" – 49.2")	17 – 833mm (0.67" – 32.8")	32 – 1249mm (1.26" – 49.2")	32 – 833mm (1.26" – 32.8")
	Dispenser	Width	22 – 128mm (0.87" – 5.04")	22 – 128mm (0.87" – 5.04")	47 – 177mm (1.85" – 6.97")	47 – 177mm (1.85" – 6.97")
		Length	17 – 1249mm (0.67" – 49.2")	17 – 833mm (0.67" – 32.8")	22 – 1249mm (0.87" – 49.2")	22 – 833mm (0.87" – 32.8")
Ribbon		Width: 39.5mm (1.56") to 111mm (4.37"), Max. Length: 450m (1476'), Core diameter: Ø 25.4mm (1"), Wind direction: Face-in		Width: 146mm (5.75") to 165mm (6.5"), Max. Length: 450m (1476'), Core diameter: Ø 25.4mm (1"), Wind direction: Face-in		

FONTS / SYMBOLOGIES		
Fonts	Standard Fonts	Bitmap Fonts Alphanumeric and Symbol: WB (18x30 dot), WL (28x52 dot), XU (5x9 dot), XS (17x17 dot), XM (24x24 dot), XB (48x48 dot), XL (48x48 dot), OCR-A (15x22 dot), OCR-A (22x23 dot), OCR-B (20x24 dot), OCR-B (30x36 dot)
	Rasterized Fonts	CG Times, CG Triumvirate
Barcode	1D Barcode	UPC-A/E, JAN/EAN-8/13, Code 39, Code 128, GS1-128 (UCC /EAN128), Codabar (NW-7), Interleaved 2 of 5, Bookland (2/5 char add-on code), GS1 Databar (RSS14), Composite JAN/EAN-8/13; Composite UPC A/E; Composite GS1 128/CC
	2D Barcode	PDF417 (Ver2.4), MAXI Code (Ver3.0), QR Code, GS1 Data Matrix (ECC200)
Print Rotation	Character Data / Barcode	0°, 90°, 180°, 270°

COMMUNICATION INTERFACES	
Optional Plug-in Interface	IEEE1284, Centronics parallel, RS232C (2400-19,200 Baud), RS232C highspeed (9,600-57,600 baud), USB (12Mbit/s), LAN (TCP/IP protocol 10/100BaseT), Wireless LAN 802.11b/g

OPERATING CHARACTERISTICS		
Power Requirements		CL4e Input voltage AC200-240V (optional 100-120V)/180W (peak) CL6e Input voltage AC100-240V (auto switching)/180W (peak)
Environment	Operating	5° – 40°C (41° – 104°F) 15-85% RH, non-condensing
	Storage	-5° – 60°C (23° – 140°F) max. 90% RH, non-condensing
ESD		8kV
Dimension		(W x D x H): 271 x 430 x 321mm (10.7" x 16.9" x 12.6") (W x D x H): 352 x 430 x 298mm (13.8" x 16.9" x 11.7")
Weight		14kg (28.7lbs) 19kg (41.9lbs)

MISCELLANEOUS		
Certifications		FCC, UL, CSA, CCC, CE, ROHS compliant
Function	Useful Features	Hex dump, Custom character design, Sequential numbering, Form storage and recall for faster data retrieving of complex format, Applicator interface
	Self Diagnosis Checking	Head check, Paper end detection, Ribbon end / Near-end detection (remaining 15 – 30m), Auto sensing for continuous forms, Memory card error detection, Auto print head detection, Test print

OPTIONS	
Accessories	Cutter, Dispenser with Internal Backing paper Rewinder, PCMCIA Memory Expansion, Flash ROM Memory Expansion, Real-Time Clock, Rewinder, Unwinder, SATO Smart Keyboard, RFID (HF* & UHF), SATO Label Gallery™

RFID SPECIFICATION (optional)				
HF	Standard	ISO/IEC 15693		
	Frequency	13,56MHz		
	Transponder	NXP	I-code SLI	112 bytes
		TI	Tag-it HF-I	256 bytes
Infineon		My-d	992 bytes	
RFID Features		Fully integrated UHF RFID Reader / Encoder module, Void marking of damaged or unreadable transponders, RFID data verification after programming, UID reading and printing as text and barcode		
UHF	Standard	ISO/IEC 18.000-6		
	Frequency	868MHz		
	Protocols	Matrics 0+, EPC Gen 1 Class 1, EPC Gen 1 Class 0, EPC Gen 2 Class 1, NXP UCODE 1.19		
RFID Features		Fully integrated HF RFID Reader / Encoder Module, RFID calibration function for optimal transponder performance, Void marking of damaged or unreadable transponders, RFID data verification after programming, Multiple RFID power settings allow users to use individual transponder sizes, DIP (Direct Inlay Printing) allows to use short pitch labels down 4 mm, PWP function allows flexible inlay positions, TID reading and printing as text and barcode		
Gen2 Memory		Expanded EPC (240bit), User Memory (512bit), TID (64bit), Access password (16bit), Kill password (16bit), Lock		

\*Only for CL408e and CL412e model

SATO makes no guarantee that the above features are available in all models, and specifications are liable to change, without notice. Version 09/10. \* Measurements are approximate values.