PT390 Specifications

Ultra high-speed, versatile thermal Point of Sale printer

Perfect for extremely demanding environments

The PT390 is built with optimum driver and firmware combined with a print mechanism of 260mm/sec enabling ultra high speed printing. In addition, it has a high capacity memory making it perfect for busy and time critical, customer focused environments such as retail, hospitality or customer service.

Designed for the harshest working conditions

Thanks to its compact design and unique front exit paper path, the PT390 can be placed either on or under the counter, making it suitable for locations where space is at a premium. Splash and dust proof, the PT390 will continue to deliver even in the harshest work environments.

The resident buzzer "beep" function notifies print job completion. This functionality, which comes as standard with the PT390, is beneficial for environments with high noise levels such as restaurants or auto mechanic businesses.

Flexible point of service printing

The PT390 has a highly flexible media capability so you are no longer restricted to a single paper type or size. With a choice of 4 paper width options (82.5mm, 80mm, 60mm and 58mm) and the capability to handle media of varying thickness (from 60 micron to 150 micron) you can now print on a variety of media types and sizes to meet your different point of service needs including receipts, coupons and tickets.

The PT390 supports both 203dpi (standard) and 180dpi (in extension mode). It also supports nine types of 1-dimension barcodes, and three types of 2-dimension barcodes enabling you to choose a suitable barcode to fit all your requirements.
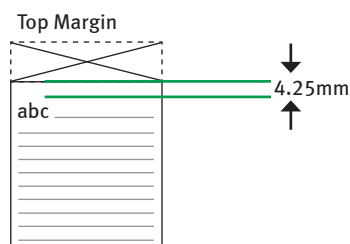
With the PT390, you can also emphasise campaign or discount information, by using either red, blue or green characters. Printed colour type depends on thermal paper used. With a storage capacity of up to 384KB, you can store a number of different graphics or logos within the unit.

These additional features come as standard with the PT390, providing you with the ability to print point of service applications required for your business from receipts through to coupons and tickets with graphics and bar-codes.

Save paper and money

With the PT390, you can now reduce the amount of paper used for printing, resulting in a reduction in costs as well as your carbon footprint. This can be achieved in two ways. Firstly, by reducing the top section of a receipt that is usually left blank by back-feeding the paper after each receipt is printed. This can save paper usage by approximately 4.7% based on printing receipts of 150mm lengths, or 2.9% based on printing receipts of 250mm lengths*.

*Based on 75μm thickness, 80mm diameter roll paper.
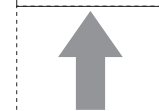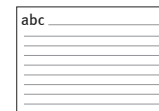
Top Margin

4.25mm

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Alternatively paper usage can be reduced through the use of a Windows driver which includes a feature to shrink the vertical print size, slashing

receipt lengths by up to 50% without loss of printed information. This feature can result in up to 50% in paper cost reduction, depending on the size of receipt printed*.

*Feature available only in 203dpi mode.

Reduced Printing

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Up to 50% vertically

Key highlights

- Robust and reliable – splash and dust proof to withstand extreme environments
- Two-colour printing capability – to highlight promotional information
- Auto cutter (partial-cut) – to enable clean removal of printed receipts
- RS232C + USB, Parallel or LAN connectivity models
- Buzzer "beep" function for print complete notification for use in environments with high noise levels

PT390 - Direct thermal POS printer

PRINTER

Print method	Direct Line Thermal Recording
Print resolution	Up to 203dpi (8 dot/mm)
Column and Font size (Normal mode 203dpi)	**58mm paper width:** Font A 12 x 24 (32 or 35 columns), Font B 10 x 24 (38 or 42 columns) or 9 x 24 (42 or 46 columns), Font C 8 x 16 (48 or 52 columns); **60mm paper width:** Font A 12 x 24 (36 columns), Font B 10 x 24 (43 columns) or 9 x 24 (48 columns), Font C 8 x 16 (54 columns); **80mm paper width:** Font A 12 x 24 (42 or 48 columns), Font B 10 x 24 (51 or 57 columns) or 9 x 24 (56 or 64 columns), Font C 8 x 16 (64 or 72 columns); **82.5mm paper width:** Font A 12 x 24 (53 columns), Font B 10 x 24 (64 columns) or 9 x 24 (71 columns), Font C 8 x 16 (80 columns)
Column and Font size (Extended mode 180dpi)	**58mm paper width:** Font A 12 x 24 (32 or 35 columns), Font B 10 x 24 (38 or 42 columns) or 9 x 24 (42 or 46 columns); **60mm paper width:** Font A 12 x 24 (36 columns), Font B 10 x 24 (43 columns) or 9 x 24 (48 columns); **80mm paper width:** Font A 12 x 24 (42 or 48 columns), Font B 10 x 24 (51 or 57 columns) or 9 x 24 (56 or 64 columns); **82.5m paper width:** Font A 12 x 24 (53 columns), Font B 10 x 24 (64 columns) or 9 x 24 (71 columns)
Print speed	**One colour:** Up to 260mm/second (69lps); **Two colours:** Up to 115mm/second (30lps)

INTERFACE AND SOFTWARE

Connectivity[1]	Centronics IEEE-1284 Nibble Mode Compliance (Anphenol 36-pins) or RS232C (D-SUB 25-pins) + USB2.0 Full speed (Type-B x 1 port) or 10 BASE-T/100BASE-TX (RJ-45 x 1 port)
Emulations	ESC/POS
Character set	**1 byte:** ANK (95 char.), International Character (48 char.), Enlarged Graphics (128 char. X 19 pages), Download Character (95 char.)
	2 bytes: JIS1&2 Kanji (6879 char.) JISX0208-1990, User-Defined Character (94 char.), Special Characters (845 char.)
Barcode fonts	**One dimension:** UPC-A , UPC-E, EAN8, EAN13, CODE39, ITF(Interleaved Two of Five code), CODABAR(NW-7), Code 93, Code 128; **Second dimension:** PDF 417, DataMatrix, QR code
Printer driver[2]	Windows Embedded for Point of Service / 2000 / Server 2003 / Server 2008 / XP / Vista / 7 / Server 2008 R2; OPOS (V1.13); JavaPOS (V1.10) for Windows
Utilities	Printer utility (Software to set the printers set-up items), LAN utility (Quick Setup, PR-PortManager (Pop-up Status Monitor), AdminManager (Printer Status Monitor, System Monitor, IP Address Setup))

PAPER HANDLING

Line feed	3.75mm (Standard), Programmable 0 to 900mm
Paper thickness	60μm (0.060mm) to 150μm (0.150mm)
Paper roll dimension	Up to 102mm diameter (Paper thickness 60 to 90μm); Up to 90mm diameter (Paper thickness 90 to 150μm)
Paper width	**58mm:** 48mm (384 dots) or 52.5 (420 dots); **60mm:** 54.5mm (436 dots); **80mm:** 64mm (512 dots) or 72mm (576 dots); **82.5mm:** 80mm (640 dots)
Cutter method	Partial-cut
Cutter positions	12mm (Standard) or Programmable 4.5mm distance between cutter and top of form
Paper output	Front
Paper sensors	Paper near end and Paper end (standard for Horizontal usage, custom-make option for Vertical usage)
Internal buzzer	One buzzer (Standard)

GENERAL FEATURES

Memory	**Logo store:** 3Mbits (384Kbytes)
Power supply	24VDC, +/- 10%
Power consumption	**Operating:** 44W/1.5A (average); **Standby:** 4.5W/0.2A
Environment	**Operating temperature / humidity:** 0°C to 40°C / 10% to 95% RH (without condensation, Highest wet bulb temperature: 29°C or less)
	Storage temperature / humidity: -20°C to 60°C / 5% to 95% RH (without condensation)
Dimensions (HxWxD)	145 x 128 x 207mm
Weight	1.9kg
Reliability	**Printer:** 70 million lines (MCBF); **Printhead:** 150km (One colour), 75km (Two colours); **Cutter:** 2 million cuts (Paper thickness 60μm)
Peripheral Drive Circuit	1 port, 2 circuits, Max.1A
Safety and EMC Standard	CSAUS/CSAC, TUV, GS, CE mark, FCC class A, EN55022 class A
ESD resistance	Direct application Contact discharge: 0 to 6kV; Direct application Air discharge: 0 to 8kV; Indirect discharge: 0 to 6
Warranty	1 year
Product order numbers	**RS232C + USB:** 44925707; **IEEE-1284:** 44925708; **10 BASE-T/100BASE-TX:** 44925709

[1]Parallel I/F card can be installed into only Parallel model printer; [2]JavaPOS Driver supports RS232C Interface and USB Interface

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