

Multifunctional**SPECTRA series****Quality. Tradition. Innovation.**

The label printing systems of Carl Valentin GmbH are the result of a sophisticated construction and an innovative production with the highest demands in quality.

Print speed up to 300 mm/s

Print width up to 216 mm

Robust metal chassis

For very large printing volumes

Saving of costs by transfer ribbon savings automatic

By the use of a new 32 bit RISC processor, the Spectra is one of the fastest label printers on the market. In a split second a label is generated with text, bar code or graphics and printed with a print speed of 300 mm/s. A newly developed rotation cutter or a label dispensing unit, guarantee fast processing of labels.

LC display

The double-spaced, backlit display informs you of printer status and indicates individual parameters for stand-alone operation.

Cutter unit

The half-rotary cutter permits fast cutting of different label materials up to a weight of 220 g/m². In addition to single cut, double and interval cut, the first cut is no problem and therefore guarantees the necessary flexibility that is expected from a modern printing system.

**Automatic Transfer Ribbon Saving**

The Spectra offers optional automatic ribbon saving. If the printer recognizes a blank area on the label, the printhead moves up. This process saves transfer ribbon and costs.

**Rewinding unit**

The rewinding unit is able to rewind printed labels with inner or outer winding up to a maximum roll diameter of 160 mm. This option is easy to refit and can also be used efficiently in dispensing mode for rewinding the carrier.

Interfaces

The Spectra is equipped as standard with a serial RS-232, a parallel Centronics and a USB 1.1 interface. Industrial interfaces like RS-422, RS-485 as well as a 10/100 T-Base interface for Ethernet connection are available as options.

Configuration by Internet / LAN

With the internal Ethernet 10/100 Base-T interface, parameters and printer status can be set and indicated by a web browser. In this way the system administrator is always informed about the latest status of printing systems that are in use.

RFID module

With the RFID module the so-called 'smart labels' can be programmed. These RFID chips, also called transponders, are being written and read by a corresponding write/read unit with a standardized frequency. In the same process step the transponder label will be printed by the printer.

Dispensing unit

The dispensing unit separates the label from the carrier and provides it for further processing. After removing the label, another print order is activated by the dispensing photocell or an external impulse.

**Labelstar PLUS**

In connection with our label design software, 'Labelstar PLUS', we offer a complete system that is compatible. The 32-bit software leaves you in no doubt of its ease of operation and also meets the very highest demands.



Technical data

Spectra 107/12, Spectra 108/12, Spectra 162/12, Spectra 216/12

Print	Spectra 107/12	Spectra 108/12	Spectra 162/12	Spectra 216/12
print width	106,6 mm	108,4 mm	162,6 mm	216,8 mm
max. label width	116 mm	116 mm	176 mm	226 mm
min. label width	15 mm	15 mm	15 mm	100 mm
max. print height	1500 mm / 1300 mm **	1500 mm / 1300 mm **	1000 mm / 900 mm **	700 mm / 600 mm **
min. label height	6 mm / 15 mm ***	6 mm / 15 mm ***	6 mm / 15 mm ***	15 mm
resolution	305 dpi	300 dpi	300 dpi	300 dpi
print speed	300 mm/s	300 mm/s	150 mm/s	100 mm/s
printhead	Corner Type	Flat Type	Flat Type	Flat Type

Printer build-in fonts

vector fonts	Helvetica Bold und Roman, Swiss light, Baskerville, Brush Script, Monospace
pixel fonts	6
proportional fonts	6

Bar codes

1D bar codes	EAN 8, EAN 13, EAN 128, EAN ADD ON, UPC-A, UPC-E, Code 39, Code 39 ext., Code 93, Code 128A, Code 128B, Code 2/5 interleaved, ITF 14, ITF 16, CODABAR, Pharmacode, PZN-Code, Identcode/Leitcode der Deutschen Post AG
2D bar codes	PDF417, MAXICODE, DataMatrix, CODABLOCK A
composite bar codes	RSS, RSS-14 Truncated, RSS-14 Stacked, RSS-14 Stacked omnidirectional, RSS Limited, RSS Expanded Stacked

Interfaces

serial	RS-232 C, 2.400 ... 57.600 Baud, RS-422 *, RS-485 *
parallel	Centronics (SPP and ECP)
USB	1.1
Ethernet / LAN	internal 10/100 Base-T *

Labels

core diameter	40 mm / 75 mm *
max. roll diameter	200 mm

Transfer ribbon

core diameter	25,4 mm / 1"
max. length	300 m
max. roll diameter	90 mm
coating	outside

Dimensions

width x height x depth	275 x 375 x 475 mm	275 x 375 x 475 mm	335 x 375 x 475 mm	375 x 375 x 475 mm
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Weight

	approx. 21 kg	approx. 21 kg	approx. 25 kg	approx. 27 kg
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Connecting values

voltage supply	230 V / 50 Hz
optional	115 V / 60 Hz *
power consumption	max. 360 VA

Operating conditions

temperature	5 - 45 °C
relative humidity	max. 80 %

* optional ** with option Ethernet/LAN *** in cutter or dispensing mode

Standard equipment

- CD containing Windows printer driver and manuals
- Date and time
- Tear-off edge
- Label photocell (transmission and reflection from below)
- IBM keyboard connection

Options

- Ribbon savings
- Integrated rewinder
- Cutter unit
- Dispensing unit
- External I/O
- 2-slot PCMCIA drive
- PCMCIA cards (512 KB, 1 MB, 2 MB)
- Bar code scanner
- RFID module
- Label design software Labelstar PLUS

www.markkom.de



Multifunctional

SPECTRA series



Gefertigt nach / manufactured according to
EN 60950, EN 50082, EN 55022
Printed in Germany 1/05
Änderungen vorbehalten
Modification subject to change

Art.-Nr.: 96.88.005