Technical details.

› Two inline thermal transfer printing units for simultaneous printing of two colors in one document.
› The first printing unit is also equipped with a ribbon saver.
› The XC series meets the requirements of the new classification and labeling system for chemicals according to GHS.

› Stable metal housing made of die-cast aluminum.
› For big media rolls up to 300 mm in diameter.
› Both printing units with ribbon holders, operation panel and electronic system are currently employed in our successful A$^+$ series industrial printers.

1 Big graphic display
White backlight for optimum readability.

2 Ribbon retainer
Three-part tightening axles enable quick and easy ribbon exchange.

3 Straightforward adjustment
The printheads are pressed down with sliding toggles. One is mounted to the left label margin, the other is pushed to the right label margin.

4 Peripheral connection
All additional modules such as the stacker and cutter are easily adjustable. All peripheral devices can be connected to the

printer with two pins and fixed in place with one screw in a matter of seconds.

5 Stable metal housing
Made of die-cast aluminum. All components are mounted on it.

6 Roll holder
The swing lever and integrated brake ensure that the labels are unwound with constant tension.

7 Ribbon saver for printhead 1
Used for labels that are only to be partially printed in second-color. In the unprinted area, the printhead is lifted and the ribbon stopped while the label is fed.

Technical details.

1 RS232C interface *without function*.

2 USB 2.0 slave interface.

3 Ethernet 10/100 Base T interface with TCP/IP.

4 Slot for wireless LAN card.

5 Two USB master interfaces for connecting an external operation panel, keyboard, scanner or service key.

6 Slot for CompactFlash Type I memory card.

Option
› cab WLAN card 802.11 b / g.
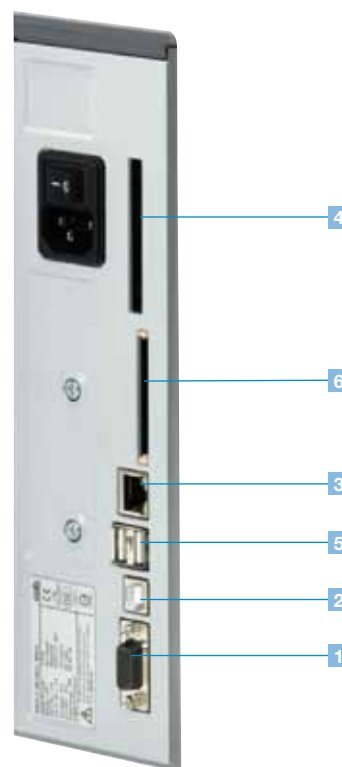
Stand-alone operation.

Printing with a cab printer without a PC.

The layout of the labels is created either using label software or through direct programming via a text editor on the PC. Label formats, fonts and graphic data, serial data and database contents are saved or imported on the CF memory card, USB flash drive or the internal IFFS printer memory.

Only variable data is sent to the printer via keyboard or host computer before being printed out. Data from a barcode scanner or a balance can also be received by the printer.

Accessories for stand-alone operation

Memory card
CompactFlash Type I

Compact keyboard
Connection: USB, number of keys: 86
L x W mm: 282 x 132
Cherry G84-4100

Device functionality and compliance with CE standards are only warranted by using the accessories provided or recommended by cab.

Software tools.

Direct programming with J-Script

The printer language is easy to understand and simple to integrate into your host system. Variable data is linked with host applications. Label design, graphic data and fonts are recorded on the CompactFlash card. The host computer sends only variable data to the printer.
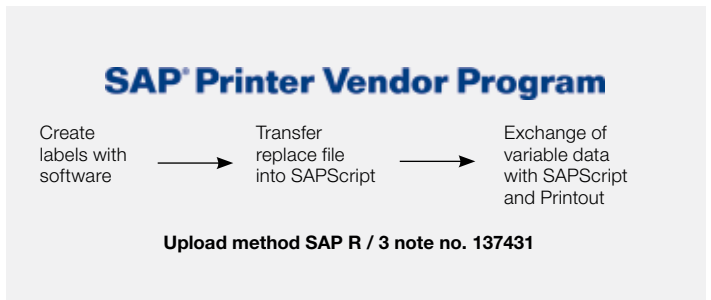
J	**Job start**
H 100	**Speed (100 mm/s)**
O R	**Orientation rotated by 180°**
S l1;0,0,68,70,100	**Size of label (100x68 mm, gap 2 mm)**
T 10, 10,0,5,pt20;sample	**Text object/font: Swiss bold, 20 pt**
B 10,20,0,EAN-13,SC2,401234512345	**Barcode EAN 13, size SC 2**
G 8,3.5,0;R:30,9,0.3;0.3	**Graphic, box 30 x 9 mm,**
	Line strength 0.3 mm
A 1	**Number of labels (in this example 1)**

Integration into SAP R/3*

In cooperation with SAP, cab developed the "replace method" for controlling cab printers quickly and easily from SAP R/3 using SAPScript. As a Silver Level partner in SAP's Printer Vendor Program, cab has access to the SAP development area for optimum printer support in SAP environments.

* SAP and R/3 are registered trademarks of SAP AG.

SAP® Printer Vendor Program

Create labels with software → Transfer replace file into SAPScript → Exchange of variable data with SAPScript and Printout

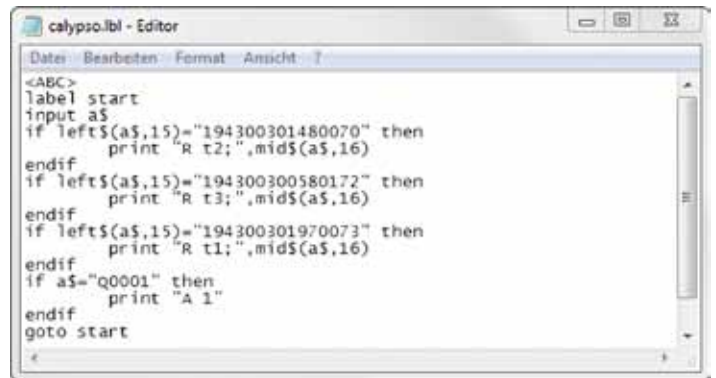**Upload method SAP R / 3 note no. 137431**

abc – Basic Compiler

As an integrated element of the firmware, the Basic Compiler enables the printer to process data via BASIC programming before it is sent for print editing. This makes it possible for external printer languages to be replaced or data from other systems, e.g. a PLC or balance, to be transferred so information can be printed in different label formats.
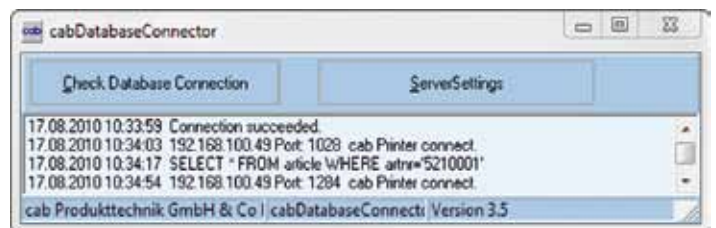
Example of use:
Connection to a balance

```
calypso.lbl - Editor
Datei  Bearbeiten  Format  Ansicht  ?
<ABC>
label start
input a$
if left$(a$,15)="194300301480070" then
        print "R t2;",mid$(a$,16)
endif
if left$(a$,15)="194300300580172" then
        print "R t3;",mid$(a$,16)
endif
if left$(a$,15)="194300301970073" then
        print "R t1;",mid$(a$,16)
endif
if a$="Q0001" then
        print "A 1"
endif
goto start
```

Database Connector

In stand-alone mode with additional network connection, the Database Connector enables stand-alone printers to access data directly from a central SQL-compatible database and to print it as a label. Data can also be written back to the database or changed during the printing process.

```
cabDatabaseConnector
Check Database Connection        ServerSettings
17.08.2010 10:33:59  Connection succeeded.
17.08.2010 10:34:03  192.168.100.49 Port: 1028  cab Printer connect.
17.08.2010 10:34:17  SELECT * FROM article WHERE artnr='5210001'
17.08.2010 10:34:54  192.168.100.49 Port: 1284  cab Printer connect.
cab Produkttechnik GmbH & Co | cabDatabaseConnect: Version 3.5
```

Printer monitoring with Intranet and Internet

Using standard programs such as the web browser or FTP clients, the integrated HTTP and FTP server enables print monitoring, configuration, firmware updates and memory card administration. Status, warning and error messages are sent to administrators or users as e-mails or SNMP datagrams via SNMP and SMTP clients. A time server is used to synchronize the time and date.
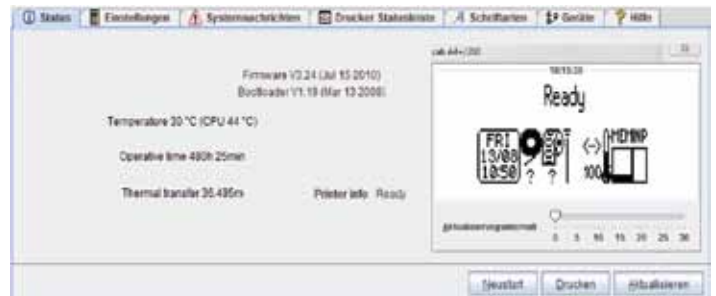
Administration Network Manager

The cab Network Manager enables the user to control multiple printers across a network simultaneously. It supports monitoring, configuration, firmware updates, memory card administration, file synchronization and PIN administration centrally.
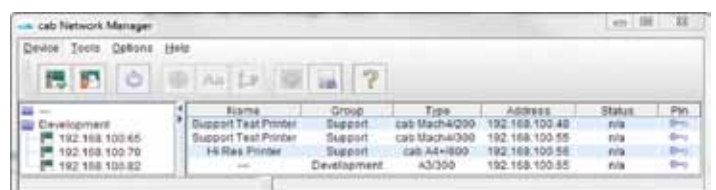
Printer driver.

WHQL-certified Windows printer driver for

Windows 2000	Windows Server 2003	Windows 7
Windows XP	Windows Server 2008	
Windows Vista	Windows Server 2008 R2	

Our printer drivers are officially certified and signed by Microsoft. They ensure optimum stability on your Windows operating system. The programs Word, Excel, Access, Corel Draw, etc. can be used to design and print labels.

Microsoft® is a registered trademark of Microsoft Corporation.
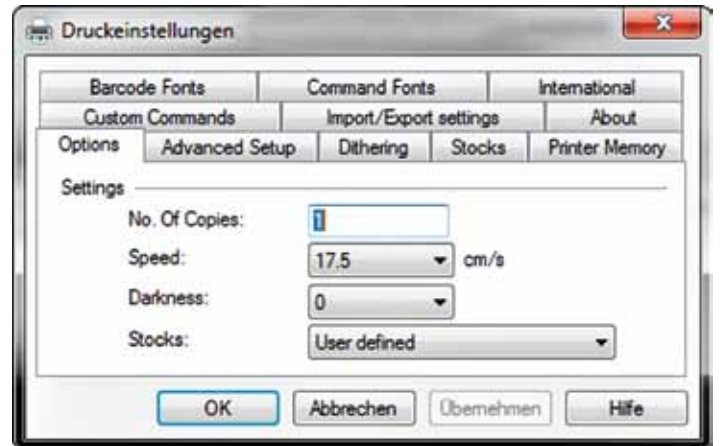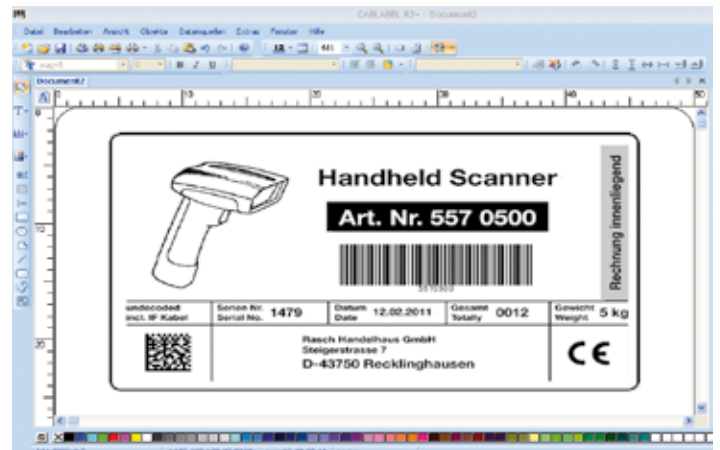
Label software.

cablabel R2+
A powerful label software that is available free of charge and specially designed for cab printers and print & apply systems.

Different fonts, barcodes and graphics in variable heights, widths and printing directions can be used to produce the best possible label design.

In addition to the loadable TrueType fonts available with MS Windows, cab printers also offer a large number of internal bitmap and vector fonts. Thanks to the support of the most commonly used codepages, country-specific special characters can also be printed.

High-performance functions make it possible to design and print even complex labels in just a few minutes. cablabel R2+ supports special functions of the cab printers, such as real-time clock, printer counter, stand-alone operation without PC, circular fonts or the printout of the printer data stream in a file. The MDI technology makes it possible to open several labels at the same time and to move objects from one label to another.

cablabel R2+ is available in 24 different languages for the following operating systems:

Windows XP	Windows Server 2003*
Windows Vista	Windows Server 2008*
Windows 7	*Terminalserver / Citrix are not supported.*

Additional label software
Highest possible variability – other commercially available label software solutions, such as Codesoft, Nicelabel, Easylabel, Bartender, Label Matrix or Labelview, support the cab label printers and labeling systems. More information is available on our website.

Technical data.

Label printer		XC4	XC6
Printhead	Printing method	Thermal transfer	
	Print resolution dpi	300	300
	Print spedd up to mm / s	30, 40, 50, 75, 100, 125	30, 40, 50, 75, 100, 125
	Print width up to mm	105.6	162.6
Material	Labels, continuous rolls or fan-folded	Paper, cardboard, textiles, plastics such as PET, PE, PP, PVC, PU, acrylate, PI	
	Thickness mm / weight g / m²	0.05 – 0.8 / 60 – 180	
	Height: Labels mm	20 – 116	50 – 176
	Of liner or continuous material mm	25 – 120	50 – 180
	Label height[1] mm	20 – 2000	20 – 1500
	Media roll: Total diameter up to mm	300	
	Core diameter mm	76	
	Winding direction	Outside or inside	
Ribbon	Ink	Outside or inside	
	Roll diameter up to mm	72	
	Core diameter mm	25.4	
	Ribbon length variable up to m	360	
	Width[2] up to mm	25 – 114	55 – 165
	Saver printhead 1	■	
Dimensions	Height x Depth x Width mm	395 x 554 x 248	395 x 554 x 358
	Weight kg	22	24
Label sensor	Gap sensor	For leading edge of the label or punching marks and end of material	
	Reflective sensor from the botton	For printing marks	
	Distance to leading edge mm	5 – 53	
Electronics	Processor high speed 32 Bit ColdFire / clock rate MHz	266	
	RAM MB	64	
	Memory IFFS MB Flash	8	
	Slot for CompactFlash Type I memory card	■	
	Slot for wireless LAN card	■	
	Battery buffer for	Real-time clock, printout of time and date Data storage on shut-down	
	Warning signal	Acoustic signal in case of error	
Interfaces	USB 2.0 high speed slave for PC connection	■	
	Ethernet 10 / 100 Base T, LPD, RawIP printing, ftp printing, DHCP, HTTP, FTP, SMTP, SNMP, TIME, Zeroconf, mDNS, SOAP	■	
	Peripheral connection	■	
	WLAN card 802.11b / g WEP / WPA PSK (TKIP)	□	
	2x USB master for	For external operation panel, keyboard, scanner, service key, USB flash drive	
Operating data	Power supply	100 – 240 V ~ 50 / 60 Hz, PFC	
	Power consumption	Max. 300 W	
	Temperature / Humidity: Operation	+5 – 40°C / 10 – 85% not condensing	
	Storage	+0 – 60°C / 20 – 85% not condensing	
	Transport	-25 – 60°C / 20 – 85% not condensing	
	Approvals	CE, in preparation FCC class A, CB, CCC, UL	

[1] *Limitations may apply to small labels, thin materials or strong adhesives. Critical materials or applications must be tested and approved.*
[2] *The ribbon should be roughly the same width as the label in order to avoid folding.*

ENERGY STAR

With innovative technology for better climate protection
Energy saving – Environmentally friendly

Label printer		XC4 and XC6	
Operation panel	Buttons/LED display	Pause, Feed, Cancel, Menu, Enter, 4 x Cursor	
	LCD graphic display	Width 60 mm, height 40 mm, text 4 lines, ca. 20 characters per line	
Settings		Time, date, digital or analog clock 25 language settings System settings, print parameters, interfaces, security	
Monitoring	Stop printing if:	End of ribbon End of labels Printhead open	
	On the display	Data reception Used memory Clock Input buffer WLAN field intensity Temperature of printhead Date sheet Remaining quantity of ribbon Ethernet status Access to memory card abc Debug	
Test routines	System diagnosis	When switched on, incl. printhead testing	
	Short status, status print	Font list, device list, WLAN status, profile of label, test grid, monitor mode, PPP status	
	Status reports	Extensive status printout with information about settings, e.g. print length counter, runtime counter, etc. Request of machine status via software command. Detailed status messages on the display, e.g. network error – no link, barcode error, etc.	
Fonts	Font types	5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Thai and Chinese (simplified Chinese) available as options.	
	Character sets	Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBC DIC 500, ISO 8859-1 to -10 and -13 up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, K0I8-R. All West and East European Latin, Cyrillic, Greek, Hebrew and Arabic characters are supported. Thai and Chinese available as options.	
	Bitmap fonts	Size of width and height 1 – 3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°	
	Vector / TrueType fonts	Size of width and height 0.9 – 128 mm Variable zoom, Orientation 360° in steps of 1°	
	Font formats	Bold, italic, underlined, outline, negative, gray, vertical, depending on character fonts	
	Font width	Variable	
Graphics	Graphic elements	Line, arrow, box, circle, ellipse, filled and filled with fading	
	Graphic formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG	
Barcodes	Linear barcodes	Code 39, Code 93 Interleaved 2 / 5 Code 39 Full ASCII Ident- and lead code of Deutsche Post AG Code 128 A, B, C Codabar EAN 8, 13 JAN 8, 13 EAN / UCC 128 MSI EAN / UPC Appendix 2 Plessey EAN / UPC Appendix 5 Postnet FIM RSS 14 HIBC UPC A, E, E0	
	2D codes	Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar	
		All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and start/stop code, depending on code type.	
Software	Programming	J-Script direct programming	■
		abc-Basic Compiler	■
		Database Connector	☐
	System diagnosis / administration	Printer monitoring	■
		Network Manager	☐
	Label software	cablabel R2+	■
		Codesoft, NiceLabel, Easylabel	○☐
		Bartender, Label Matrix, Labelview	○
	Windows driver certified	32 / 64 bit for Windows 2000 Server 2003 Windows XP Server 2008 Windows Vista Server 2008 R2 Windows 7	■
	Stand-alone operation		■

For current data, please go to www.cab.de

Acessories.

Cutter

The cutter is used to cut paper, adhesive labels, cardboard, textiles and plastics.

Cutter	CU4	CU6
Material width up to mm	120	180
Weight of material gr/m² / cardboard	60 – 500	
Material thickness mm	0.05 – 0.8	
Cutting length mm	> 5	
Height of pile up to mm	–	–
Media channel height up to mm	2.5	
Cuts / min.	120	110
Stop print job if:	Final position not reached	

Stacker with cutter only for XC4

The printed materials are cut and collected using the stacker. The print job stops when the maximum pile height is reached. Restrictions may apply to the use of stiff or curved materials. We recommend the testing of such materials at cab.

Stacker with cutter	ST4/L
Material width up to mm	20 – 110
Weight of material gr/m² / cardboard	60 – 300
Material thickness mm	0.05 – 0.8
Cutting length mm	20 – 150
Height of pile up to mm	140
Media channel height up to mm	1.2
Cuts / min.	120
Stop print job if:	Final position not reached Cover open Height of pile is reached

Storage table label width x height

The storage table and protective cover are adjusted to the label size and must be ordered separately.

External rewinder

Labels can be wound either inside or outside. Electronic control of the swing arm ensures smooth and tight winding.

External rewinder	ER4 / 210	ER4 / 300	ER6 / 300
Application	XC4	XC4	XC6
Material width up to mm	120	120	180
Roll Ø max. mm	205	300	300
Core Ø mm	40 / 76		
Operating voltage	100 – 240 V~ 50/60 Hz		
Label winding	Outside or inside		