signotec
e-signature solutions

signotec Pad Omega

LCD Full-Colour Signature Tablet

Description and data sheet

■ MADE
■ IN
■ GERMANY
Quality · Security · Ecology

Version: 3.3
Date: 12 November 2012

HIGHLIGHTS

- Affordable signature tablet with 5" colour TFT.
- High-resolution colour display with 640 x 480 pixels.
- Ultra-slim design.
- Very flat surface with no depressions or edges.
- No special pen required (cheap replacement).
- Fixed USB cabel (no loose contact and anti-theft protection)
- Extremely durable and robust.
- Outstanding technical data for digitising signatures.
- High security thanks to protected data transfer.
- Customers can choose the colour of the pad's housing.
- Pads can be customised by adding customer logos.
- Thanks to its special surface structure, signotec's unrivalled sensor makes the user feel that they are genuinely writing – on paper. No malfunctions caused by the user inadvertently touching the surface with their hand rest.

- Display of colour graphics.
- Display of coloured buttons.
- Display of coloured text.
- Various fonts.
- Graphics compression in order to reduce transfer times.
- **Buffering of at least ten colour graphics in the pad (flash).**
- Intelligent Memory management.
- Scroll function for graphics up to a size of 640 x 960 pixels.

- HID USB – no driver installation necessary.
- Optional internal USB to serial converter – virtual serial port.
- Automatic pad identification.
- Control of two LEDs at the front.
- Signature input area can be defined and deleted.
- Buttons can be defined, queried and cancelled on the display.
- The application interface version is retrievable.
- Display coordinates are retrievable.
- The model number and firmware version of the pad can also be retrieved.
- Output of 500 samples per second of X, Y, time and print coordinates.
- Auto power-off when signal is on USB bus.
- Signature display in real time.
- Power is supplied via USB with no power supply unit.

TECHNICAL DATA

Dimensions	
Thickness	15 mm
Height	180 mm
Width	191 mm

Display	
Type	5" full-colour TFT with backlight
Number of colours	65,536
Resolution	640 x 480 pixels
Scroll function	For graphics up to a size of 640 x 960 pixels
Pixel size	0.0529 x 0.1587 mm
Visible area	101 x 76 mm

Sensor	
Active signing area	100 x 75 mm
Linearity	+/- 1.5 % in x, y and z direction
Input method	Special sensor for pen input. No errors caused by touching surface with the hand.
Surface hardness	Special surface for pen input
Pressure sensor unit	1024 pressure stages
Pen	No special pen. Cheap replacement.
Writing sensation	Pen and surface work together in perfect harmony. Feels like writing on paper.

Electronics/Digitisation	
Output rate of coordinates	500 4D samples (comprising x, y, time and pressure coordinates) per second
Internal sampling rate	6000 samples per second
Resolution	1040 x 1387 ppi
USB port	HID USB 2.0 full-speed mode (12 Mbps), downward compatible
Serial port	Optional via internal virtual serial COM port
USB standby support	Yes, when relevant signal is present the device is switched off
Driver	Not necessary for HID USB. Only for virtual serial port.
Software	Includes communication interface for programming
Data transfer	Secure data transfer between PC and pad
Serial number	Unique and retrievable internal serial number
Firmware	Version is displayed during initialisation and can be retrieved via software
Status display	2 coloured and freely programmable LEDs
Power consumption	375 mA HID and 389 mA for the virtual serial COM port version
Plug'n'Play	Yes, for both connection types (HID and virtual serial)
Read protection of firmware	Yes, Flash memory is protected against readout

Miscellaneous	
Cable port	USB
Cable length	1.5 m, 5 m and 0,2 m
Weight	356 gr.
Pen attachment	Highly flexible, textile tether
Certifications and standards	TÜV, CE, DIN EN 60950-1, DIN EN 61000-6-1, DIN EN 61000-6-3
RoHS	RoHS compliant
Tamper-proof closure	Housing can be optionally glued
Container	Fabric bag. Supplied in cardboard packaging.
Bar code	A bar code with a serial number is located on the device and the cardboard box
WEEE-Reg.-Nr. (ear):	DE 41995888
Operating System	Windows XP, Vista, Win7, Server 2003, 2008, 32 and 64-Bit. Terminal Server. Linux.

Operating and storage conditions	
Operating temperature	- 10° C to + 45° C
Storage temperature	- 25° C to + 70° C
Max. humidity for operation and storage	<= 90% non-condensing
Air pressure for operation and storage	> 700 hPa

Reliability/Quality assurance	
Quality tests	Individual testing of devices with test log
High temperature test	240 hours at 80° C
Low temperature test	240 hours at - 40° C
Humidity test	240 hours at 60° C and 90% humidity
Thermal shock test	30 minutes at – 40° C and 30 minutes at + 80° C (10x in succession)

Order numbers	
Colour Pad Omega with HID USB – 1,7 m cable	ST-CE1075-2-U100
Colour Pad Omega with virtual COM port via USB (USB2Serial) – 1,7 m cable	ST-CE1075-2-FT100
Colour Pad Omega with HID USB – 5 m cable	ST-CE1075-5-U100
Colour Pad Omaga with virtual COM port via USB (USB2Serial) – 5 m cable	ST-CE1075-5-FT100

Order number description:

ST	Manufacture (signotec)
C	Colour
E	Encryption option
1075	Sensor size (10 x 7,5 cm)
2(5)	USB cable length (2 or 5 meter)
U	HID-USB
FT	Internal Virtual Com Port Converter (USB2Serial)
100	Standard Colour regarding the overlay and housing (other numbers for customer specific versions)

Dimensions in Millimeter: