signotec Delta

10,1" LCD Colour **Signature Tablet**

Description and data sheet

MADE IN GERMANY

Quality • Security • Ecology

Version: 1.4
Date: 2017-04-24

HIGHLIGHTS

- **Hardened glass covering (8H) with ER-Sensor Technologie.**
- **Self-sufficient slide show with up to 32 graphics.**
- **SDK and tools are bundled free of charge.**
- **Unique RSA-signature creation device and RSA-encryption methods inside the pad.**
- **„Content Signing" allows to directly sign the content displayed on the LCD, to assure to sign the correct document.**
- **Secure mode for real time display.**
- **Several options for secure certificate and key management inside the pad.**

- Robust signature tablet with 10,1" TFT
- High resolution colour display with 1.280 x 800 pixels
- Extremely flat and modern design

- Sensor surface made of hardened special glass for heavy use.
- Extreme long service life and durability.
- Battery-free pen with changeable pen tip.
- Electromagnetic Resonance Technology, the sensor is only responding to the pen.
- No malfunction when simultaneously touching the surface with hand.
- Records "flying movements" up to 5 mm
- Exchangeable USB cable with reliable strain relief.
- Vertical and horizontal pen holder.
- Outstanding technical data for digitising signatures.
- Coloured graphics, buttons and text.

- Display of unlimited fonts and font sizes.
- Graphic compression to reduce transmission time.
- Self-sufficient slide show with up to 32 graphics.
- Scroll function for graphics up to a size of 1.280 x 37.600 pixels
- Multi-Interface-Support: HID-USB, WinUSB, virtual COM-port, Ethernet.
- Control of 2 LEDs in the front.
- Defining and deleting of the input area for the signature.
- Buttons can be defined, queried and cancelled on the display.
- Retrieval of the model number and firmware version.
- Auto-Power-Off with relevant signal on USB bus.
- Signature display in real time with secure mode transmits only reduced und biometrical useless data to the host.

TECHNICAL DATA

Alterations for the technical progress, manufacturing tolerances and mistakes reserved at any time! We reserve the right to alter the technical data without prior notice.

Dimensions	
Thickness	13 - 23 mm
Width	280 mm
Height	205 mm

Display	
Type	10,1" full colour TFT with backlight
Number of colours	16,7 Million
Resolution	1.280 x 800 pixel absolute ≙ 150 x 150 ppi
Scroll function	Yes, for pictures up to 1.280 x 37.600 pixel
Brightness	140 cd/m²
Viewing Angles	Horizontal 90°, vertical 130° @CR≥10
Pixel spacing	0,135 x 0,135 mm
Surface Treatment	8H Extremely durable, hardened special glass
Visible area	216,96 mm x 135,6 mm

Sensor	
Active signing area	216,96 mm x 135,6 mm
Resolution	10.800 x 6.900 pixel ≙ 1.264 x 1.292 dpi
Linearity	+/- 0.5 mm (Center), +/- 1.0 mm (edge)
Technology	ERT (Electronic Resonance Technology): Suitable for on-screen hand writing, no influence by hand touch
Surface hardness	Extremely durable, hardened special glass
Pressure stages	2048 pressure stages
Pen	Active and battery-free pen with changeable pen tips
Life span of the pen tip	1,2 Mill. at 250 gram pressure and 2,5 cm length
Total life	30 Million signatures

Electronics/Digitisation	
Output rate of the coordinates	500 Hz 4D Samples (consisting of x, y, time, pressure)
Internal sampling rate	6.000 samples per second
USB port	USB-HID Hi-Speed (high-speed interrupt transfers) and USB Hi-Speed (high-speed bulk transfers).
Serial port	Optional via internal virtual serial COM-port
Ethernet port	Optional: 10/100 Mbit/s, RJ45
USB Standby Support	Yes, when relevant signal is present the device will switch off
Driver	Not necessary for HID-USB. Only for virtual serial port and WinUSB
Software/SDK/Tools	SDK and tools free of charge incl. updates and new versions
Data transfer	AES 256 encrypted data transfer between PC and pad via RSA key exchange
Serial number	Unique and retrievable internal serial number
Firmware	Version is displayed during initialisation and is retrievable via SW
Status display	2 coloured and freely programmable LEDs
Power consumption	950 mA at 4,75 – 5,25 V DC
Plug'n'Play	Yes, for both connection types (HID and virtual serial)
Readout protection of the firmware	Yes, flash memory is protected against readout

Miscellaneous	
Cable port	Micro USB with strain relief to 2x USB-B (Y-Cable)
Power Supply Unit (optional)	USB power supply (2.1 A, 5 V)
Cable length	2,7 meter
Weight	750 grams
Pen attachment	Highly flexible textile tether
VESA mount	Size: 75x75mm; Screws: Plastic (Ejot or Schriever), Diameter: 3mm, max. penetration depth: 6,5mm
Certifications and standards	TÜV, CE, DIN EN 60950-1, DIN EN 61000-6-1, DIN 61000-6-3
ROHS	ROHS compliant
Tamper-proof closure	Optionally the case can be glued
Barcode	A barcode with a serial number is located on the device and the cardboard box
WEEE-Reg.-Nr. (German register for used devices)	DE 41995888
Operating systems	Windows XP (SP3) and later, Windows Server 2003 and later, Windows Terminal server support, Linux; 32 and 64 Bit
Protection class	IP 52

Operating and storage conditions	
Operating temperature	- 10° C to + 45° C
Storage temperature	- 25° C to + 70° C
Max. humidity for operating and storage	<= 90 % non-condensing
Air pressure for operating and storage	> 700 hPa
Reliability/Quality assurance	
Quality test	Individual testing of devices with test log
High temperature test of the components	240 hours at 80° C
Low temperature test of the components	240 hours at - 40° C
Humidity test of the components	240 hours at 60° C and 90 % humidity
Thermal shock test of the components	30 minutes at – 40° C and directly 30 minutes at + 80° C (10x in succession)
Article numbers	
signotec Delta Colour Signature Pad with USB, 2,7 m cable	ST-DERT-3-U100
signotec Delta Colour Signature Pad with virtual COM-port via USB – 2,7 m (USB 2serial)	ST-DERT-3-UFT100
signotec Delta USB with FTDI and Ethernet	ST-DERT-3-UFTE100

Article number description:

ST	Manufacturer (signotec)
D	signotec Delta series
ERT	ER-Technology
3	USB cable length 2,7 Meter
U	USB
FT	Additional internal virtual COM-port converter (USB2Serial)
E	Ethernet on board for network integration
100	Standard colours regarding logo print and case

Scope of delivery:

- Pen Display signotec Delta
- USB 2.0 Y-cable
- ERT-Pen
- Penholder
- Additional pen tip
- Pen tip replacement tool
- Tether
- Quick start guide

Packaging Dimensions (W x D x H):

- 345 x 335 x 90 mm
- 13.58 x 13.19 x 3.54 inch

![signotec e-signature solutions]

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