

signotec Alpha

LCD Colour Signature Tablet A4

Description and data sheet



MADE IN GERMANY

■ ■ ■ Quality • Security • Ecology

Version: 4.0

Date: 2017-04-24

HIGHLIGHTS

- **Changeable pen tips: Plastic or ink**
- **Simultaneous signature capture: On paper and electronic blueprint at the same time**
- **Including free of charge software packages incl. SDK for several programming languages**
- **Unique RSA-signature creation device and RSA-encryption methods inside the pad**

- Affordable signature tablet with 15,6" colour TFT
- High resolution colour display with 768 x 1366 pixels
- Scroll function for graphics up to a size of 2048 x 2048 pixels
- Adjustable LED-backlight
- Very flat surface without depressions or edges
- Pen with 1024 pressure stages and highest precision at positioning
- Electromagnetic Resonance Technology with battery-free pen
- Sensor is only responding to the pen, no malfunction when simultaneously touching the surface with hand
- Long service life and robust
- Outstanding technical data for digitising signatures
- Internal RSA-signature creation device and RSA-encryption methods
- Data transfer with HighSpeed WinUSB with 480 MB/sec or FullSpeed HID
- Graphic compression to reduce transmission time
- Build-in USB to serial converter – virtual serial port for terminal server support
- Optional Ethernet connection via TCP/IP, to access the device via LAN
- Automatic pad recognition
- Self-sufficient slide show with up to 10 graphics
- Cable is changeable via mini-USB port
- Control of 2 LEDs in the front
- The signature can be individually positioned without prior definition
- Virtual buttons can be positioned in any order
- The application interface version is retrievable
- Retrieval of the display coordinates
- Retrieval of the model number and firmware version
- Output of up to 280 samples per second of X-, Y-, time and pressure coordinates
- Sleep mode with relevant signal on USB bus
- Signature display in real time



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	26 mm
Width	240 mm
Height	400 mm
Display	
Type	15,6" full colour TFT with adjustable LED-backlight and "Privacy Viewing"
Number of colours	65,536
Resolution	768 x 1366 pixel absolute \pm 100 x 100 ppi
Scroll function	Yes for graphics up to a size of 2048 x 2048 pixels
Pixel size	0.252 x 0.252 mm
Visible area	194 x 344 mm
Sensor	
Active signing area	193,54 x 344,23 mm
Precision	\pm 0,4 mm (center)
Input method	ERT (Electromagnetic Resonance Technology)
Tip technology	Changeable pen tips with plastic or ink
Pressure stages	1024 issued, 4096 internal
Pen	Battery-free
Writing sensation	On-screen handwriting, is only sensitive to ERT-Stylus, not influenced by hand touch, no erroneous input
Detectable angle	\pm 50°
Electronics/Digitisation	
Output rate from the coordinates	280 4D samples (consisting of x, y, time, pressure) per second
Resolution	7422 x 10206 Pixel \pm 974 x 753 ppi
USB port	USB-HID Hi-Speed (high-speed interrupt transfers) and USB Hi-Speed (high-speed bulk transfers).
Ethernet	Optional Ethernet for TCP/IP communication via LAN
Serial port	Integrated USB to serial converter, virt. COM-port for terminal server support
USB Standby Support	Yes, when relevant signal is present the device will switch off
Data transfer	AES 256 encrypted data transfer between PC and pad via RSA key exchange
Serial number	Unique and retrievable internal serial number
Status display	2 coloured and freely programmable LEDs
Software/SDK/Tools	SDK and tools free of charge incl. updates and new versions
Internal signature creation and encryption	Internal RSA signature of image contents or checksums and RSA encryption of the biometrics
Memory	128 MB RAM and 1 GB Flash-Memory

Miscellaneous	
Cable port	USB, optional Ethernet, 12 volt power supply unit (included in scope of delivery)
Cable length	1.5 m
Weight	1.921 kg
Pen attachment	Highly flexible and exchangeable textile tether
Certifications and standards	CE, DIN EN 60950-1, DIN EN 61000-6-1, DIN EN 61000-6-3
ROHS	RoHS compliant
Tamper-proof closure	Optionally the case can be glued
Packaging	Recyclable cardboard
Barcode	A bar code 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 Terminalserver support, Linux; 32 and 64 Bit
USB-HUB	Internal and external USB-Hub, to connect additional devices
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	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 Alpha with HID/WinUSB and vCOM via USB (32)	ST-A4E-2-UFT100
signotec Alpha with HID/WinUSB and vCOM via USB and Ethernet (34)	ST-A4E-2-UFTE100

Article number description:

ST	Manufacturer (signotec)
A4	Size and model
E	RSA-encryption
2(5)	USB cable length (1,5 or 5 meter)
U	WinUSB or HID (HID if WinUSB not present)
FT	Internal USB to serial converter for virt. COM-port (USB2Serial)
E	Ethernet
100	Standard colours and signotec logo

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signotec head office Ratingen

Head Office

signotec GmbH
Am Gierath 20 b
DE-40885 Ratingen
T.: +49 (0) 21 02 - 5 35 75-10
F.: +49 (0) 21 02 - 5 35 75-39

Branch Office North

signotec GmbH
Schützenweg 1 b
DE-31637 Rodewald
T.: +49 (0) 50 74 - 9 67 27-0
F.: +49 (0) 50 74 - 9 67 27-69

Office Erfurt

signotec GmbH
Regierungsstr. 28
DE-99084 Erfurt
T.: +49 (0) 21 02 - 5 35 75-36
F.: +49 (0) 21 02 - 5 35 75-39

Mail: info@signotec.de
Web: www.signotec.com