

signotec Epsilon (Touch) Pen Display

Highlights & Data Sheet



HIGHLIGHTS

- 15,6" Pen-Display with Dual-Touch Input.
- Integration as DisplayLink® monitor-extension.
- Support for pen input applications, for example to capture notes and signatures.
- Widescreen Display with HD-Resolution and scratch-resistant surface (8H).
- Battery-free pen with changeable pen tip.
- Perfect, digital handwriting with 2.048 pressure stages.
- No integration via SDK required, API for pen-input available.
- Delivery comes with completely assembled USB cable, pen and cord.



TECHNICAL DATA

General data

Dimensions	380 x 248 x 40 mm (W x H x T), with fold-out stand 85 mm height
Casing colours	RAL 7021, black-grey
Cable port	Power, VGA, HDMI, USB, Audio
Cable length	Approx. 2,7 meters (including HDMI, USB and power cable plus power adapter)
Power consumption	5.7W typical, 6.3W max.
Power supply	External Power adapter (AC 100-240V; 50/60 Hz)
Status-LED	2 coloured and freely programmable LEDs
Stand	VESA-Stand size: 75x75mm
Weight	Approx. 2,5kg
Warranty	2 years, optional extension up to 5 years.
Country of origin	China

Display

Type	Full-Colour-TFT LCD Pen Display Monitor
Size	15.6" (39,5 cm)
Colour space	16,7 million
Backlight	LED-Backlight, brightness: 190 cd/m ²
Configuration of backlight	Yes
Resolution	1.980 x 1080 pixels \pm 5080 LPI
Pixel size	0,17925 x 0,17925 mm
Visible area	344.2 x 193.6 mm
Line of sight	178°
Scroll-function	Yes

Sensor

Type	ERT (Electronic Resonance Technology) and Touch Functionality
Active signing area	344 x 193 mm
Resolution	1.980 x 1080 pixels \pm 5080 LPI
Linearity	+/- 0,5 mm (centre), +/- 1.00 mm (edge)
Method of input	Special sensor for pen input (no influence by hand touch).
Surface	Extremely durable, hardened, highly polished special glass.
Surface hardness	8H
Life expectancy	Approx. 30 million signatures
Pressure stages	2.048 pressure stages
Output rate of coordinates	250 Hz 4D-samples (consisting of x, y coordinates, time and pressure)
Internal sampling rate	6.000 samples per second
Pen	Active and battery-free pen with changeable pen tips.
Minimal pressure force	0.098 N (10 gf)
Maximal pressure force	7.845 N (800 gf)
Life expectancy of the pen	Approx. 1,2 million signatures at 250 grams pressure and 2,5 cm length.
Pen tilt angle	+/- 45°
Possible height of the pen	5 - 15 mm
Pen attachment	Highly flexible textile-cord and horizontal pen holder.

Capacitive Touch Sensor

Availability	Optional
Multi-Touch	Up to 10-point multi-touch input.
Confirmation	<10g
Life expectancy	>1 Million touchpoints
Chattering	20ms or less
Active touch-surface	344 x 193 mm
Power consumption	-

Connection types

Types	VGA, HDMI, USB
Serial	No
USB-Standby-Support	No
Ethernet	No

Driver and Software

Driver	Display-driver: https://www.displaylink.com/downloads Driver for pen-input: https://en.signotec.com/service/downloads/drivers/
Plug and Play	Yes
SDK (API)	No
Tools	No
Software	Further chargeable software available.

System environment

Operating System	Windows 7 and newer, 32- and 64-Bit, Linux on demand
Terminal Server and Citrix	No
Citrix Virtual Channel	No

Security mechanisms

Data transfer	AES-256 encrypted data transfer between the monitor-extension and the host.
Encryption	No
Firmware	No
Secure Mode	No
Signature unit	No
Key storage	No
Certificate Signing Request (CSR)	No
Trusted certificates	No
Supported Hash-algorithms	No
signotec „Content-Signing“	No
Protection against forceful break in	No

Miscellaneous

Transport protection	No
Individualization	No
Slideshow	No
Certifications and standards	CE
RoHS	RoHS-compliant according to EU-regulations.
WEEE-Reg.-No. (German register for used devices)	DE 41995888
Packaging law Reg.-No.:	DE 3470684644700
Serial number	Unique and retrievable, internal serial number.
Device label	There is a label on the packaging and the device with information regarding the article number, hardware revision and serial number, including a barcode.

Operating- and storage conditions

Operating temperature	5°C to +40°C
Storage temperature	-20°C to +60°C
Air humidity for operation and storage	10% - 90%, non-condensing
Air pressure for operation and storage	> 700 hPa
Degree of protection	IP 52

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

ST-PDT-156-U100	Signotec Epsilon Colour Pen Display
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