signotec

e-signature solutions

signotec Kronos (Touch) Pen Display

Highlights & Data Sheet

HIGHLIGHTS

- 11,6" (29,5 cm) Pen-Display with Dual-Touch Input.
- Integration as DisplayLink® monitor-extension.
- Support for pen input applications, for example to capture notes and signatures.
- Support for applications with pen input, e.g. for notes and signatures.
- Widescreen display with HD resolution and scratch-resistant surface (8H).
- Battery-free special pen with exchangeable pen tip.
- Perfect digital handwriting with 2,048 pressure levels.
- No integration via SDK required, API for pen input available.
- 3-in-1 HDMI connection
- Optional: Capacitive touch (10-point multi-touch)
- Optional: NFC sensor
- Optional: Fingerprint sensor
- Signature directly on the screen or digital document (must be supported by the respective application).

TECHNICAL DATA

General data

Dimensions	299 x 185 x 20 mm (W x H x T)
Casing colours	RAL 7021, black-grey
Cable port	3-in-1 HDMI
Cable length	Approx. 2,7 meters
Power consumption	5.7 W typical, 6.3 W max.
Power supply	External Power adapter (AC 100-240 V; 50/60 Hz)
Status-LED	2 coloured and freely programmable LEDs
Stand	VESA-Stand size: 75x75 mm
Weight	Approx. 1,0 kg
Warranty	2 years, optional extension up to 5 years.
Country of origin	China

Display

Type	Full HD LCD Pen Display Monitor
Size	11,6" (29,5 cm)
Colour space	16,7 million
Backlight	LED-Backlight brightness: 150 cd/m², 200 cd/m2 with external power adapter
Configuration of backlight	Yes
Resolution	1.980 x 1.080 pixels ≙ 191 x 191 ppi
Pixel size	0,13 x 0,13 mm
Visible area	356,3 x 144,2 mm
Line of sight	170°
Scroll-function	Yes

Sensor

Type	ERT (Electronic Resonance Technology) and Touch Functionality
Active signing area	344 x 194 mm
Resolution	52.640 x 29.120 pixels ≙ 5.223 x 5.136 LPI
Linearity	+/- 1,0 mm (centre)
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	-
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	<10 g
Life expectancy	>1 Million touchpoints
Chattering	20 ms or less
Active touch-surface	344 x 194 mm
Power consumption	-

NFC Sensor

Availability	Optional
ISO-Compliance	ISO14443 1-4
Range	10 mm
Frequency	13,56 MHz

Fingerprint Sensor

Availability	Optional
Dimensions	12 x 15 mm = 256 x 288 pixels
Resolution	500 DPI
Memory	1.000 units

Connection types

Types	3-in-1 HDMI
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	Limited support
Citrix Virtual Channel	No

Security mechanisms

Data transfer	AES-256 encrypted data transfer between the monitor-extension and the host.
Encryption	No
Firmware	Not supported specifically
Secure Mode	No
Signature unit	No
Key storage	No
Certificate Signing Request (CSR)	No
Trusted certificates	No
Supported Hash-algorithms	n.a.
signotec „Content-Signing"	No
Protection against forceful break in	Kensington Microsaver Security

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

Article numbers

signotec Kronos Pen Display + Touch	ST-PDT-116-U100
signotec Kronos Pen Display + Touch + NFC	ST-PDT-116-UNFC100
signotec Kronos Pen Display + Touch + NFC + Fingerprint	ST-PDT-116-UNFCFP100

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