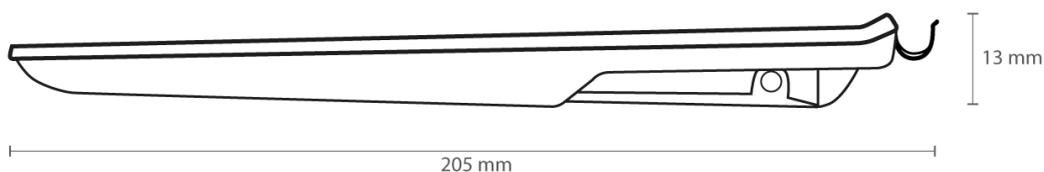
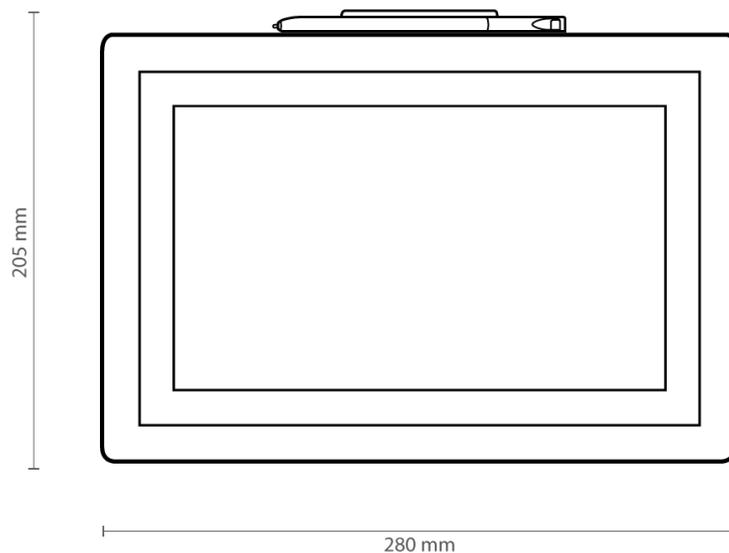


Highlights & Data Sheet



HIGHLIGHTS

- 10,1" (25,6 cm) full-colour display.
- Extremely robust, hardened Sensor glass-surface (8H) with ER-technology.
- Signature capturing with 500 Hz 4D samples and 2.048 pressure stages (x, y, z, t).
- Unique RSA-signature creation and RSA-encryption methods inside the pad.
- Slideshow with up to 32 individually configurable images.
- Battery-free pen with changeable pen tip.
- „Content Signing“ allows signing the LCD-content with the captured signature.
- Secure Mode to display the signature on the screen in real-time.
- Delivery comes with completely assembled USB cable, pen and cord.
- Including free of charge software packages.



TECHNICAL DATA

General data

| | |
|-------------------|--|
| Dimensions | 280 x 205 x 13 - 23 mm (W x D x H), with fold-out stand: 85 mm height |
| Casing colours | Upper shell: RAL 7021, black-grey Lower shell: RAL 9010, pure white |
| Cable port | Micro-USB (with strain relief) to 2x USB-B (Y-cable) |
| Cable length | Approx. 2,7 meters |
| Power consumption | USB: 950 mA at 4,75 – 5,25 V DC PoE: max. 160 mA (6,84 W) |
| Power supply | USB, optionally available USB power adapter (2.1 A, 5 V) Power over Ethernet (PoE) |
| Status-LED | 2 coloured and freely programmable LEDs |
| Stand | VESA-Stand size: 75x75mm, thermoplastic screws Diameter: 3mm, max. penetration depth: 6,5mm |
| Weight | Approx. 830 grams (incl. cable) |
| Warranty | 2 years, optional extension up to 5 years. |
| Country of origin | Germany |

Display

| | |
|----------------------------|--|
| Type | Full-Colour-TFT |
| Size | 10.1" (25,6 cm) |
| Colour space | 16,7 million |
| Backlight | LED-Backlight, brightness: 250 cd/m ² |
| Configuration of backlight | The backlight can be configured with an API or configuration file. |
| Resolution | 1.280 x 800 pixels \pm 150 x 150 ppi |
| Pixel size | 0,1695 x 0,1695 mm |
| Visible area | 216,96 x 135,6 mm |
| Line of sight | 6 o'clock |
| Scroll-function | Maximum size of the displayed image: 1.280 x 37.600 pixels. |

Sensor

| | |
|----------------------------|---|
| Type | ERT (Electronic Resonance Technology) |
| Active signing area | 216,96 x 135,6 mm |
| Resolution | 10.800 x 6.900 pixels \pm 1.264 x 1.292 dpi |
| Linearity | +/- 0,4 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 | 500 Hz 4D-samples (consisting of x, y coordinates, time and pressure) |
| Internal sampling rate | 6.000 samples per second |
| Stability of output rate | Constant through integrated quartz |
| 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. |

Connection types

| | |
|---------------------|---|
| USB | HID-USB and WinUSB |
| Serial | Optional with internal USB-Serial-Converter (VCOM-Port) or chargeable VCOM-Port-Driver. |
| USB-Standby-Support | Yes, if the corresponding signal is given, the device switches off. |
| Ethernet | Optional; RJ45 Ethernet-Port (10/100 Mbit/s), DHCP available. |

Driver and Software

| | |
|---------------|---|
| Driver | No special driver is required for a USB connection. |
| Plug and Play | Yes, available for all connection types. |
| SDK (API) | Several SDKs including updates and support available. |
| Tools | Tools free of charge including updates and support. |
| Software | Further chargeable software available. |

System environment

| | |
|----------------------------|---|
| Operating System | Windows 7 and newer, Windows Server 2012 and newer, 32- and 64-Bit, Linux |
| Terminal Server and Citrix | Compatible with Windows Remote Desktop and Citrix ICA |
| Citrix Virtual Channel | Optionally available |

Security mechanisms

| | |
|--------------------------------------|--|
| Data transfer | AES-256 encrypted data transfer between host and pad via RSA key exchange. |
| Encryption | RSA-Encryption unit inside the pad. |
| Firmware | Flash memory is protected against data theft. |
| Secure Mode | Real-time display of the signature without usable biometrics. |
| Signature unit | RSA signature creation unit in the pad. |
| Key storage | Creation and storage of certificates in the pad. |
| Key size | 4096 Bit |
| Certificate Signing Request (CSR) | CSR can be generated in the pad and extracted. |
| Trusted certificates | The CSR can be signed by a root authority. Additional information: eIDAS Pad Signature Seal |
| Supported Hash-algorithms | SHA-1, SHA-256 and SHA-512 |
| Signature-Performance | Transmission and Signing of a SHA-256 Hash via WinUSB: 2048 Bit: 150 ms; 3072 Bit: 500 ms; 4096 Bit: 1.000 ms |
| signotec „Content-Signing“ | Yes |
| Protection against forceful break in | The casing can be glued optionally. |

Miscellaneous

| | |
|------------------------------|---|
| Transport protection | No |
| Individualization | Change of casing colour and logo print (on request). |
| Slideshow | A standby slideshow with up to 32 images is freely configurable. |
| Certifications and standards | CE, FCC, DIN EN 60950-1, DIN EN 61000-6-1, EN 61000-6-3, EN 55022, EN 55024 |

| | |
|--|---|
| 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 | -10°C to +45°C |
| Storage temperature | -25°C to +70°C |
| Air humidity for operation and storage | <= 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-DERT-3-U100 | signotec Delta USB, 2,7 m USB-cable |
| ST-DERT-3-UE100 | signotec Delta USB and Ethernet, 2,7m USB-cable |
| ST-DERT-3-UPOE100 | signotec Delta USB and Ethernet incl. Power over Ethernet, 2,7m USB-cable |

Copyright

Copyright © 2000 - 2022 signotec GmbH

All rights reserved. This documentation and the components described therein are copyrighted products of signotec GmbH Ratingen in Germany. Partial or full reproduction is only permitted with the written consent of signotec GmbH. All hardware and software names used are trade names and / or trademarks of the respective manufacturers / owners. Subject to changes at any time. We accept no liability for errors in the documentation.