

## signotec Gamma

# Highlights & Data Sheet







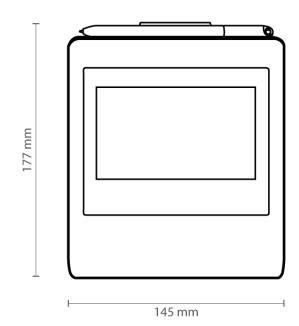
Version 2.1 of 25.02.2020 <a href="https://en.signotec.com/">https://en.signotec.com/</a>

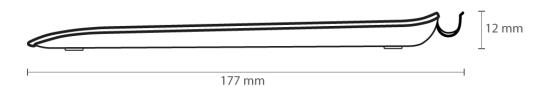


### **HIGHLIGHTS**

- 5" (12,7 cm) full-colour display.
- Extremely robust, hardened sensor glass (8H) with ER-technology.
- Signature capturing with 500 Hz 4D samples and 1.024 pressure stages (x, y, z, t).
- Unique RSA-signature creation and RSA-encryption methods inside the pad.
- Self-sufficient slideshow with up to 10 images.
- Battery-free pen with changeable pen tip.
- "Content Signing" allows to sign the LCDcontent 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 and SDK for several programming languages.









## **TECHNICAL DATA**

General Data	
Dimensions	145 x 177 x 12 mm (H x W x T)
Casing colours	Upper shell: RAL 7021, black-grey Lower shell: RAL 9010, pure white
Cable port	Micro-USB (with strain relief) to USB-B.
Cable length	Approx. 2,7 meters
Power consumption	450mA; Standby 18 mA (HID/WinUSB) and 16mA (FTDI)
Power supply	USB
Status-LED	2 coloured and freely programmable LEDs
Stand	Compatible Multigrip™ plate available.
Weight	Approx. 280 grams (incl. cable)
Warranty	2 years, optional extension up to 5 years.
Country of origin	Germany

Display	
Туре	Full-Colour-TFT
Size	5" (12,7 cm)
Colour space	16,7 million
Backlight	LED-Backlight, brightness 300 cd/m <sup>2</sup>
Configuration of backlight	The backlight can be configured with an API or configuration file.
Resolution	800 x 480 pixels ≙ 188 x 188 ppi
Pixel size	0,135 x 0,135 mm
Visible area	108 x 64,8 mm
Line of sight	6 o'clock
Scroll-function	Maximum size of the displayed image: $800 \times 1.440$ pixels.

Sensor	
Туре	ERT (Electronic Resonance Technology)
Active signing area	108 x 64,8 mm
Resolution	10.204 x 7.420 pixels
Linearity	± 0,4 mm
Method of input	Special sensor for pen input (no influence by hand touch)
Surface	Extremely durable, hardened special (anti-glare) glass.
Surface hardness	8H
Life expectancy	Approx. 30 million signatures
Pressure stages	1.024 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
Pen	Active and battery-free pen with changeable pen tips.
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.

© 2000 - 2020 signotec GmbH Data Sheet signotec Gamma Page 3	© 2000 - 2020 signotec GmbH
--	-----------------------------



Connection types	
USB	USB-HID and WinUSB
Serial	Optional with internal USB-Serial-Converter (VCOM-Port) using FTDI or chargeable VCOM-Port-Driver.
USB-Standby-Support	Yes, if the corresponding signal is given, the device switches off.

Ethernet

Yes, with an optionally available USB-to-Ethernet adapter.

Driver and Software	
Driver	No special driver is required for a USB connection.
Plug and Play	Yes, available for all connection types.
SDK (API)	SDK/API free of charge including updates and support.
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.
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
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 10 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-RegNo. (German register for used devices)	DE 41995888
Packaging law RegNo.:	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.

© 2000 - 2020 signotec GmbH	Data Sheet signotec Gamma	Page 4 of 5
© 2000 - 2020 Signoted Gillon	Data Sheet Stundled Gaillina	Page 4 of 5



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-GERT-3-U100	signotec Gamma USB, 2,7 m USB-cable
ST-GERT-3-UFT100	signotec Gamma FTDI (VCOM) and USB approx. 2,7 m (USB 2serial)

#### Copyright

Copyright © 2000 - 2020 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.

© 2000 - 2020 signotec GmbH	Data Sheet signotec Gamma	Page 5 of 5
© 2000 - 2020 Sidilotec Ollibri	Data Sheet sidhotet Gaillina	I aue J UI J