duraSign Pad NG 10

Technical data sheet

10 inch next generation (NG) signature pad – standalone pad on your network with best-in-class performance

for stationary use

StepOver GmbH

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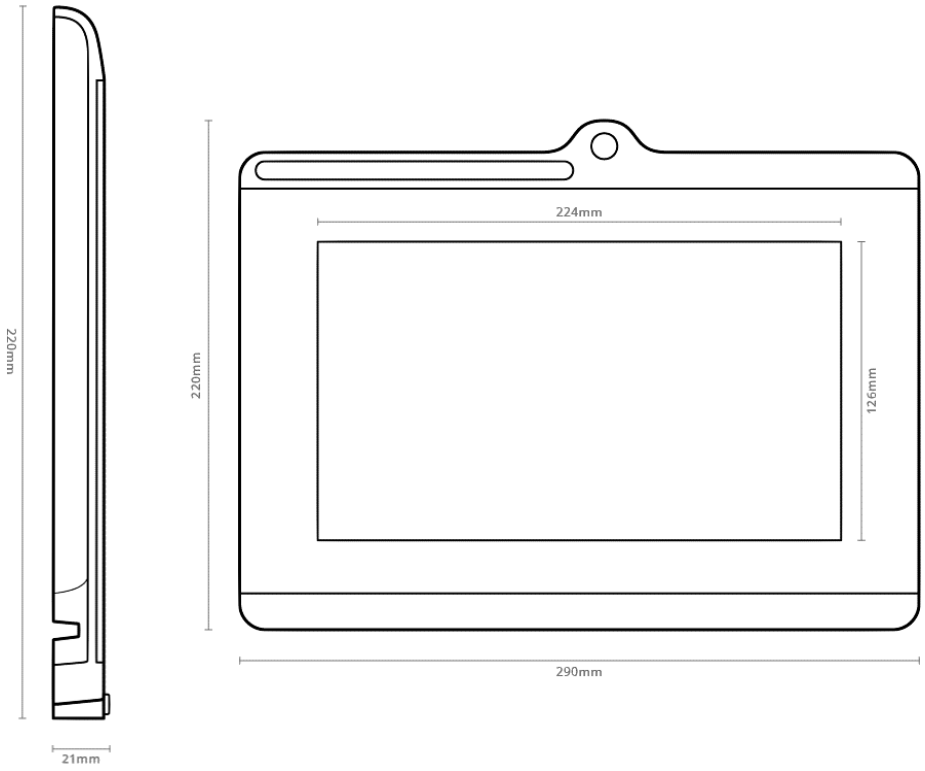
Technical Data Sheet

GENERAL			
Manufacturer	StepOver GmbH	StepOver GmbH Otto-Hirsch-Brücken 17 70329 Stuttgart Germany	address
Country of origin	Country where development, manufacturing and quality assurance takes place.	Made in Germany	
Order number	GTIN item number	GTIN	4260130061418
Order number with 3 years warranty and barcode	GTIN item number	GTIN	4260130061623
Traceability/ serial number	Each signature pad of this type has been given a unique serial number. The serial number can be accessed from the device's firmware and read on the display after being plugged in. Optionally, for projects involving over 500 units, the serial number can be added to the back of the device in digits and as a bar code (subject to cost).	Code 39	barcode type (Optional / Subject to surcharge - Only when ordered ex-works)

DIMENSION / HOUSING / COMPOSITION			
Material	Housing	PC/ABS	
Width	Housing	29.0	cm
Depth	Housing	22.0	cm
Height	Housing	2.1	cm
Weight	Signature pad without connector cable.	945	grams
Cover lens	Chemically tempered glass over the display.		



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PEN			
Pen type	duraPen (electro-magnetic pen; battery-free).	duraPen 3	
Pen force resistance	Max. force that may be applied to the pen tip.	8	Newtons
Pen attachment	Textile cord affixed to the housing. Pen is easy to replace, with no tools required.		

DISPLAY			
Display type	Colour display TFT		64k colours
Width	Active area – display	22.27	cm
Depth	Active area – display	12.53	cm
Display brightness	Values of display brightness	Max. 310	cd/m²
Display	X- and Y- resolution of the integrated colour screen: **Note**: The pad screen displays the signature in real time and can be used to display texts, documents, and virtual buttons. The LED backlight has an expected lifespan of 20,000 operating hours. The screen can be switched off and on again via software (recommended if the device is also connected to a switched-on computer outside of working hours e.g. to a computer running 24/7).	1024 x 600	pixels
Horizontal viewing angle	Left side / right side	min 60° - typically 70°	
Vertical viewing angle	Front / Opposite position	min 60° - typically 70° / min 45° - typically 50°	
Standard image resources	 **Standby mode:** The first 30 seconds, after the signature pad is connected or if the customer has not loaded a slide show/ video onto the signature pad, the standby mode will display the ip-address of the pad, FW version, manufacturer logo and additional information.  **Optional slide show:** In standby mode, advertising images (slide show) can be displayed. The signature pad also has an internal memory for at least four exchangeable advertising images. The advertising images can be loaded and changed by the customer.  **Optional Video playback:** In standby mode, a video can be played. The video is played in a loop until the device leaves standby mode. Note: The video resolution is lower than the native screen resolution. The video is scaled to the full screen size. Only the specified video format is supported. The unit has no speakers and therefore does not play sound. The device has an internal memory for a video that can be up to 30 minutes long.  **Signing in the document:** The section of the document around the signature field is displayed in the main field. A bar listing available functions is displayed on the righthand side of the screen.  **Document view:** In document view mode, users can view multiple-page document. A function bar located on the right-hand side assists navigation.		The documents, signatures and advertisement images seen here are merely for illustration purposes.

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SUPPORTED FILE FORMATS			
Document file format	PDF/A 1b, PDF/A 2b, PDF/A 3b, other PDF- Formats depending on tests.	PDF/A	1b, 2b, 3b, others PDF formats, if tested
Slide show and picture file format	PNG, JPG, BMP	1024 x 600	pixels
Video file format	Codec: VP8, Resolution: 512x300 will be scaled to display size, Bitrate 512K, Refresh rate 24 Hz.	512 x 300 pixels / 512K Bitrate / 24Hz	VP8

SIGNATURE CAPTURE			
Sensor type	Sensor type to capture signature data.	ERT	sensor
Sensor durability	Max. number of signatures possible (with different pens, if necessary).	> 30 million	signatures
Sensor material	Glass in the capture section with ERT sensor situated underneath.	Chemically tempered glass	surface material
Width	Active area ERT sensor	22.27	cm
Depth	Active area ERT sensor	12.53	cm
Resolution	Resolution of captured X- and Y- coordinates (without interpolation/ without adding some coordinates to other).	X=2560 Y=2560	DPI/LPI
Accuracy of repetition	Accuracy of repetition of X-Y measurements.	+/- 0.4	mm
Temporal resolution output	Groups of 4D coordinates (Each group consists of X, Y, pressure and time).	330	output per second
Measurement of pressure	Maximum number of differentiated pressure levels.	2048	pressure levels
Minimum force	Lowest measureable writing force.	Approx. 0.5	Newtons
Maximum force	Highest measureable writing force.	Approx. 8	Newtons

SAFETY			
Protection of biometric data	Patented encryption method with RSA public key safely stored in the signature pad and RSA Private Key safely stored with a notary for decryption in case of dispute.		
Encryption algorithms and Signature algorithms	Name of the standard cryptographic algorithms used, which are used for encryption purposes in the pad.	Up to RSA 4096 bit, AES 256 bit, SHA 256 bit,	
Kensington Slot anti-theft system	The back of the housing has a standard Kensington Security Slot. This slot is suitable for normal Kensington locks (T-Bar) and flat ClickSafe Kensington locks (e.g. model K64637WW with T-Bar). Inside, the slot is reinforced with a metal plate. Only mild/moderate force should be applied to the ClickSafe Security Anchor, otherwise the housing may crack.	Slot for Kensington locks	
Date stamp (optional)	The date and time stamp, that is attached to each signature requires and internal battery which supplies an internal pad clock with power. The date stamp may deviate by one day per year, if not update via a NTP time server.	Standard function	
Tamper detection (optional)	The tamper detection function must be requested when placing your order (subject to surcharge). It cannot be activated retrospectively, as it requires an internal battery that supplies an internal memory with power. This internal memory unit holds a key that is unique to each pad, so long as it is supplied with power. If the housing is opened, the power supply is interrupted and the key is deleted. The next time it is used, the firmware integrated into the main processor detects that the key for the volatile memory is no longer equivalent to its own, and therefore that the signature pad may have been tampered with. If the signature pad should exceed the battery lifespan, it can be renewed by StepOver. In this regard, the device is also checked for integrity (tampering) and the alarm is reset.	Optional function	subject to surcharge – Only when ordered ex-works.

SYSTEM REQUIREMENTS		
Operating System	It is not necessary to install a driver. The device is detected an external network device by Windows, Mac OS and most Linux distributions.	Windows 10 and above, Mac OS Catalina and above, Linux Distribution with USB 2.0 support (or higher) and Ethernet over USB driver (CDC)
Use with a web browser	In order to make full use of this product, you will need a version of the following browser.	Chrome, Edge, Safari, Firefox
Software compatibility	In case you do not want to use the signature device with your web browser, you can use it together with the following software.	eSignatureOffice 7.X or higher SimpleSigner 8.X or higher
Developer Interface	Signature Pad has a REST API Interface which can be used to implement the signature pad with customer applications.	Internal REST API Next Gen API (.NET) swagger Interface

CONNECTIVITY / POWER SUPPLY			
USB cable	Y-cable / 2x USB A to Mini-USB B	Length	approx. 3 meters (299 cm)
Accessories included	Standard accessories	USB cable, Multi-lingual operating manual	per 1 unit
Power consumption	Maximum power consumption	5	watt (1000 mA)
Connectivity	This device does not require a HW driver; it is directly recognised by Windows/Mac OS and most Linux Distributions. (RNDIS device).	USB Network Device (Ethernet over USB)	USB 2.0 device
Accessories (additional/ not included)	Ethernet Connection Kit (Europlugs) for duraSign Pad NG 10.	USB 2.0 Network Adapter, 10/100Mbit with Slimline USB power supply 7 Watt	per 1 unit
Accessories (additional/ not included)	Ethernet Connection Kit (International Plugs) for duraSign Pad NG 10.	USB 2.0 Network Adapter, 10/100Mbit with USB power supply 7,5 Watt	per 1 unit

OTHER FEATURES			
Battery	Button cell (LI-MnO2). The button cell is required for the internal real time clock and the optional "opening recognition" function.	CR2032	type
Operating temperature	Temperatures at which the pad can function according to what is specified here.	0 to +50	°C | With a max. of 65% RH without condensation
	Limited temperature range in particularly humid environments.	0 to +40	°C | With a max. of 90% RH without condensation
Storage temperature	Temperatures at which the device can be transported and stored.	-10 to +70	°C | With a max. of 90% RH without condensation
	Recommended storage temperature for the set.	-10 to +70	°C | With a max. of 90% RH without condensation
Conformity	Certifications / approvals	CE, UKCA, WEE, RoHS	
Quality assurance measures per device	QA tests of all devices. Test protocols are linked to the serial number of the device and the coded initials of the person who carried out the tests. They can be sent to the customer via email upon request, free of charge.	Each device tested for function and measurement error	
General quality assurance measures	Selection of component suppliers and standardised, documented production processes. StepOver GmbH works exclusively with ISO-certified component suppliers, and works in line with ISO regulations.	EN ISO 9000 ff	
Recycling	Most of this product can be recycled. Components such as the housing, etc. are labelled with information about the materials used.	WEE registration no.	DE 27870259
Environmental protection	For every signature pad sold, StepOver makes a donation to promote the planting of new trees. As of 2023, a total of 1.85 million m² has been planted in several projects across the world!	CO2-neutral product	
Drilling jig	The device has two screw holes on the back for desktop or wall assembly.	Dimensions can be found on the StepOver Website	**Download PDF document**

IMPORTANT INFORMATION:

This product is protected by national and international property rights and patents.

We reserve the right to make technical modifications designed to improve this product.

All hardware and software names employed are registered trade names and/or trademarks of the respective manufacturer/owner. The content and structure of this documentation are protected by copyright. The reproduction of information or data, particularly text, sections of text and images, requires the prior consent of StepOver GmbH.

The safety and operating instructions provided in the operating manual must be observed. You will find an electronic operating manual online at: www.StepOverInfo.net/MAN

This product is not intended for import, distribution or use in the USA. Please contact StepOver International GmbH regarding products for the US market.

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