duraSign Pad Brilliance

Technical data sheet

5 inch signature pad with color screen, document view & tempered glass surface for maximum durability

for stationary use
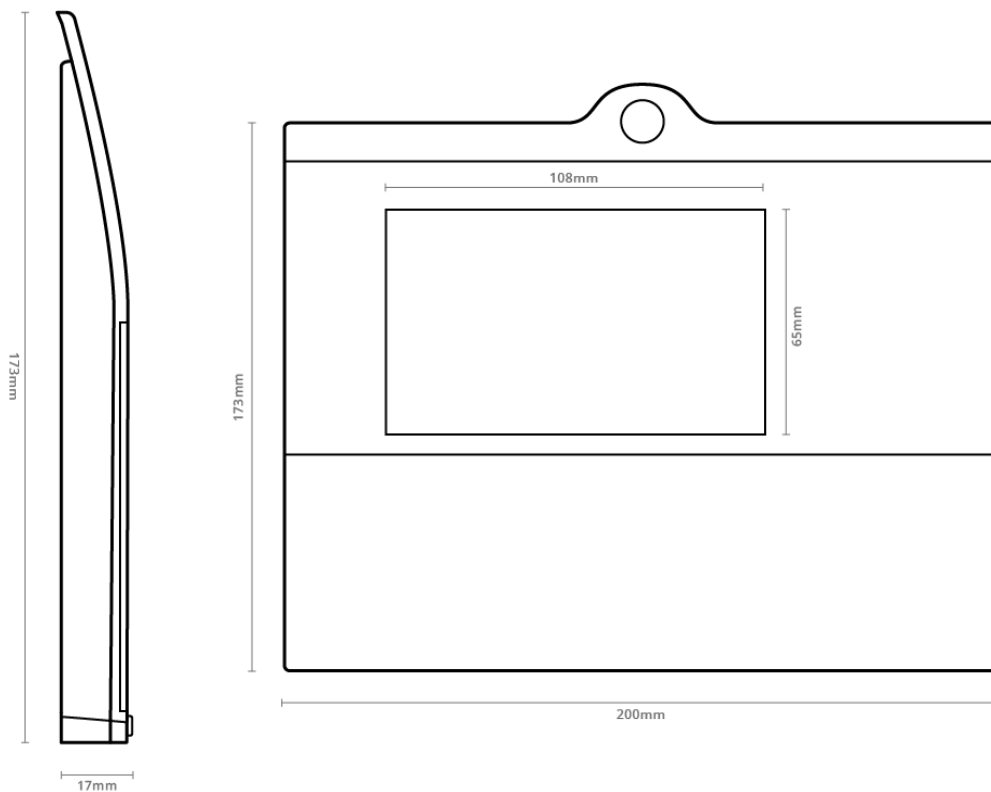
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GENERAL			
Manufacturer	StepOver GmbH	StepOver GmbH Otto-Hirsch-Brücken 17 70329 Stuttgart Germany	address
Country of origin	Country where development, manufacturing and quality assurance takes place.	Made in Germany	
Order number	GTIN item number	GTIN	4260130061081
Order number with 3 years warranty and barcode	GTIN item number	GTIN	4260130061609
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 powered on. 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	20.0	cm
Depth	Housing	17.3	cm
Height	Housing	1.7	cm
Weight	Signature pad without USB cable.	385	grams
Cover lens	Chemically tempered glass over the display.		

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PEN		
Pen type	duraPen (electro-magnetic pen; battery-free).	duraPen 1
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	10.8 cm
Depth	Active area – display	6.5 cm
Display brightness	Values of display brightness	Max. 245 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).	800 x 480 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:** If the customer has not loaded a slide show onto the signature pad, the standby mode will display the serial number, 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/slide show images can be loaded and changed by the customer. **Standard signature mode:** The background images (information section above and capture section below) can be changed by the customer. Backgrounds are loaded onto the signature pad as standard (see image left). The text in the information section at the top can be adapted dynamically using the signature software. A bar listing available functions is displayed on the right. **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 right-hand side of the screen. **Document view:** In document view mode, users can view a 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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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	10.8	cm
Depth	Active area ERT sensor	6.5	cm
Resolution	Resolution of captured X- and Y- coordinates (without interpolation/ without adding some coordinates to other).	X=2400 Y=2900	DPI/LPI
Accuracy of repetition	Accuracy of repetition of X-Y measurements.	+/- 0.5	mm
Temporal resolution output	Groups of 4D coordinates (Each group consists of X, Y, pressure and time).	274	output per second
Measurement of pressure	Maximum number of differentiated pressure levels.	1024	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 UTC/GMT date stamp must be requested when placing your order (subject to cost). It cannot be activated retrospectively, as it requires an internal battery which supplies an internal pad clock with power. The date stamp may deviate by one day per year.	Optional function — subject to surcharge – Only when ordered ex-works.
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.

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SYSTEM REQUIREMENTS		
Operating System	It is not necessary to install a driver.	
Software compatibility for 2048 bit encryption	In order to make full use of this product, you will need a version of the following software that has, at the minimum, the same version number or higher.	eSignatureOffice from version 5.9 SimpleSigner from version 7.0 Device API from version 5.9
Software compatibility >2048 bit encryption	Warning: To use with >2048 bit key lengths, you will require the following software versions at the minimum.	eSignatureOffice from version 6.2 SimpleSigner from version 7.1 Device API from version 6.2 Signature API from version 4.13
Signature pad - encryption >2048 bit	Warning: To use with >2048 bit key lengths, you will require the following firmware version at the minimum.	From version 7.09.0.49

CONNECTIVITY / POWER SUPPLY			
USB cable	USB A to Mini-USB B	Length	2 meters
Accessories included	Standard accessories	USB cable, Multi-lingual operating manual	per 1 unit
Power consumption	Maximum power consumption	500	mA
Connectivity	Encrypted HID. This device does not require a HW driver; it is directly recognised by Windows/Linux like a mouse or keyboard. Can be switched to serial transmission via USB (including for port forwarding at the Thin Client). Driver for Windows, Windows Embedded and Win CE available as optional. Also compatible with Linux and Thin-OS.	USB-HID	USB 2.0 device

OTHER FEATURES			
Battery	Button cell (LI-MnO2). The button cell is required for the functions "opening recognition" and "date stamp" which can be ordered as optional. Signature pads that are not equipped with these functions ex works may not contain any batteries.	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 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
	Storage temperature for the electronic pen (duraPen 1).	-20 to +70	°C	With a max. of 65% RH without condensation
	Recommended storage temperature for the set.	-20 to +65	°C	With a max. of 95% RH without condensation
		-10 to +65	°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**

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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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StepOver GmbH