

# Technical data sheet

## duraSign Pad US 10.0



# TECHNICAL DATA SHEET

## DURASIGN PAD US 10.0




### Technical data:

General			
Manufacturer	StepOver International GmbH	StepOver International GmbH Otto-Hirsch-Brücken 17 70329 Stuttgart Germany	Address
Country of origin	Country in which development, manufacture and quality assurance takes place.	Germany	Made in Germany
Order number	SOI article number.	SOI	130061234
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)

Dimensions / Casing / Composition			
Material	Casing	PC/ABS	Material description
Width	Casing	11.4 / 29	inch / cm
Depth	Casing	8.65 / 22	inch / cm
Height	Casing	0.81 / 2.1	inch / cm
Weight	Signature pad without connector cable.	2.11 / 955	lbs / grams
Glass	Chemically tempered glass over the display.	-	-

Pen			
Pen type	duraPen 2 (electro-magnetic pen; battery-free)	duraPen 2	Name
Pen pressure resistance	Max. pressure that may be applied to the pen tip	1.76 / 800	lbs / grams
Pen attachment	Textile cord affixed to the casing. Pen is easy to replace, with no tools required.	-	-

Display			
Display type	Color display TFT	-	64k colors
Width	Sensor and screen capture	11.4 / 29	inch / cm
Depth	Sensor and screen capture	6.8 / 17.3	inch / cm
Width	Active area of sensor and display	8.64 / 21.9	inch / cm
Depth	Active area of sensor and display	5.34 / 13.6	inch / cm
Display brightness	Values of display brightness	310	cd/m <sup>2</sup>
Display	x- and y- resolution of the integrated colour screen:	1024 x 600	pixels
<p>Note:</p> <p>The pad screen displays the signature in real time and can be used to display texts, documents, and virtual buttons.</p> <p>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).</p>			
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	 <p><b>Standby mode:</b> 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.</p>	-	The documents, signatures and advertisement images seen here are merely for illustration purposes.

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**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.

### Signature capture

Sensor type	Sensor type to capture date and signature.	ERT sensor	-
Sensor durability	Max. number of signatures possible with the sensor (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 surface	8.64 / 21.9	inch / cm
Depth	Active surface	5.34 / 13.6	inch / cm
Spatial resolution	Resolution of captured x- and y- coordinates (without interpolation/ without adding some coordinates to other).	X=2560 Y=2560	DPI
Accuracy of repetition	Accuracy of repetition of x-y measurements.	+/- 0.016 / +/- 0.4	inch / 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 pressure	Lowest measureable writing pressure.	Approx. 0.5	Newtons
Maximum pressure	Highest measureable writing pressure.	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 algorithm	Name of the standard cryptographic algorithms used, which are used for encryption purposes in the pad.	Up to RSA 4096 bit AES 256 bit	-
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.
Opening recognition (optional)	The opening 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 casing 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

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Driver	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.	eSignatureSuite from version 5.9 EasySigner from version 7.0 Hardware 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.	eSignatureSuite from version 6.2 EasySigner from version 7.1 Hardware API from version 6.2 Software 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 7.09.0.47	-

### Connections / Connectors / Cable supplied / Power supply and consumption

Connector cable	Y-cable / 2x USB A connector Mini-USB B connector	Length	118.11 inch / 300 cm
Accessories included	Standard accessories.	Connector cable, Multi-lingual operating manual	per 1 unit
Power consumption	Maximum power consumption	1100	mAh
Transmission type	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 Can be switched to USB-CDC/ACM	USB 2.0 device (backwardly compatible to USB 1.1)
Kensington Slot anti-theft system	The back of the casing has a Kensington Security Slot. This slot is suitable for normal Kensington locks and flat ClickSafe Kensington locks (e.g. model K64637WW). Inside, the slot is reinforced with a metal plate. Only mild/moderate force should be applied to the ClickSafe Security Anchor, otherwise the casing may crack.	Slot for Kensington locks	-

### 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 up 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	Certificates / licenses	FCC	-

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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	1/1
General quality assurance measures	Selection of component suppliers and standardised, documented production processes. StepOver International 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 casing, etc. are labelled with information about the materials used.	WEE registration no.	DE 27870259
Environmental protection	The use of the signature pads saves paper.	CO <sub>2</sub> -neutral emissions	-
Drilling jig	The device has two screw holes on the back for desktop or wall assembly.		- <a href="#">Download PDF document</a>

### Original product:



#### Important information:

Use of this product is limited to the intended purpose. Use for electronic signing only.

Be aware that this product may have small parts that may be harmful or fatal if swallowed. It can be dangerous if thrown, broken or handled carelessly.

Keep away from children and infants. Pay attention to the instructions and warnings written in the manual and on the device. This product is intended for use in the United States of America.

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

We reserve the right to make technical changes that result in an improvement in the functioning of the device.

All names and trademarks are property of their respective owners.

The content and structure of this documentation are protected by copyright. The use of information, data, and especially images, text, or sections of text without the express permission of StepOver International GmbH is not permitted.

It is important to follow the indications given in the operating and safety instructions. The operating instructions can be found in the following electronic manual at [www.StepOverInfo.net/MAN](http://www.StepOverInfo.net/MAN).

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StepOver International GmbH  
 Otto-Hirsch-Brücken 17 | 70329 Stuttgart | Germany  
 HRB-Nr. 757630 | Amtsgericht Stuttgart  
 Managing director: Andreas Günther