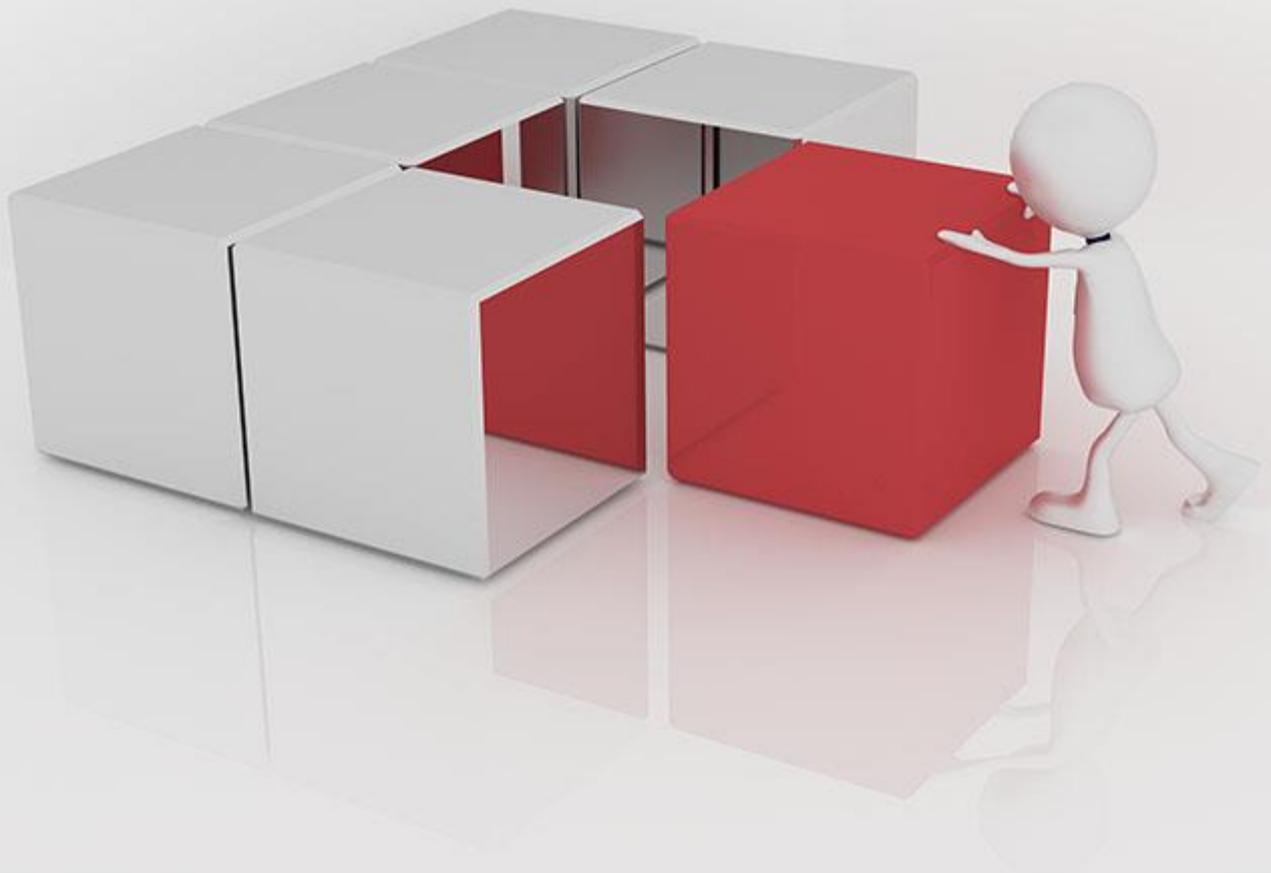


TECHNICAL INFORMATION

duraSign Pad US 10.0



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Technical Information for the duraSign Pad US 10.0

The duraSign Pad US 10.0, with its bright color screen and USB port is, the most advanced model for counter services, developed and manufactured by StepOver International (StepOver International GmbH) in Germany.

Specific features:

Its elegant and robust design, with a 3mm (1,18 inches)-thick casing and large hardened glass surface in the signing area, make this Pad a wear-resistant and good-looking solution for stationary use.

The duraSign Pad US 10.0 can now also be secured with a flat Kensington ClickSafe lock.

The duraSign Pad US 10.0 features a stable and easily locatable lateral pen holder. The new "duraPen 2" battery-free electro-magnetic pen is securely attached to the casing with a tearproof cord. Both pen and cord can be easily replaced by the User without needing to return the product or open up the casing.

Its USB port, located on the casing base and with a cable duct running to the back, combines the benefits of a fixed connection cable (unplugging not possible) with the flexibility of a changeable standard USB cable (various cable lengths, the user can replace the cable without returning the product etc.).

The duraSign Pad US 10.0 can also be secured with both a flat Kensington ClickSafe lock, as well as a conventional Kensington Lock.

The integrated colour screen shows the signature in real time and can be used to display the document that should be signed and your own individual advertising.



The highest proof of security on the market

Each duraSign Pad US 10.0 is provided with a unique certificate for the digital signing process (2048 bit RSA private key), with which the internal signature creation unit signs the document in a completely secure way. Furthermore, with this certificate the person examining the signed document can precisely assign the signature to a specific signature pad.

Apart from this, the signature pad process contains a public key for a second key pair (RSA 2048 bit), generated by a notary public. By means of this key, the biometric data is already encrypted in the pad. This way, highly sensitive information can never be found in the decrypted format in an unsafe computer environment (e.g. working space). The private key for this second key pair is safely deposited with a notary public.

The unique safety concept of this StepOver signature pad offers the user the highest possible proof of security since it is the only way to prove a claim that the signature's biometric data was never used for purposes other than intended (e.g., by intercepting and copying the data to another document).

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The optional internal tamper-proof date stamp provides each captured signature with a date stamp independent of the computer.

Optional opening recognition helps the operator identify possible tampering.

It is not necessary to install a driver for Win7, Win8, Win10, and Linux. In addition to the screen, the status LED indicates the specific operating mode (Off = no connection; Orange: = ready; green = capturing signature).

The device has three holes in the back that enable it to be secured to a desk or wall. Here you can download the relevant drilling template here:

https://www.stepoverinfo.net/downloads/webseite/Drilling_Jig-duraSignPad10.pdf

Technical data:

Description	Referring to	Value	Measurement
Material	duraPen 2 (battery-free EM pen) fastened to the casing with a cord. Pen can be exchanged by the customer without the use of tools.	duraPen 2	Name
Pressure resistance of pen	Max. pressure which can be applied to the tip of the pen.	800	Grams
Sensor durability	Max. amount of signatures possible with the sensor (with different pens, if applicable)	> 30 million	Signatures
Sensor material	Glass in the detection area with EMR sensor located underneath	Chemically-hardened glass	Surface material
Casing material	Signature pad 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
Anti-theft protection/Kensington Slot	The casing has a ClickSafe Kensington slot at the back. This slot is suitable for normal Kensington locks and flat ClickSafe Kensington locks (e.g. model K64637WW). The slot is reinforced inside with a small metal plate. Please pull only with mild to moderate force on the ClickSafe Security Anchor, as cracks could otherwise emerge in the casing.	Slot for flat ClickSafe Kensington locks	-
Width	Surface area (Glass)	11.4 / 29	inch/cm
Depth	Surface area (Glass)	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
Length	Supplied connector cable Type – Mini-USB	118 / 300	inch/cm
Weight	Signature pad without connection cable	2.11 / 955	lbs/grams
Temporal resolution output	Groups of 4D coordinates (Each group is made up of the coordinates X, Y, pressure and time)	330	Output per second
Spatial resolution	Definition of the captured X and Y coordinates (without adding some coordinates to other/without interpolation)	X = 2560 Y = 2560	DPI
Accuracy of repetition	Accuracy of repetition in X, Y measurements.	+/- 0.016 +/-0.4	Inch/mm
Display	x- and y resolution of an 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 MTBF of 20,000 working hours. The screen can, however, be turned off and on again via software (recommended if the device is 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	minimum 60° - typically 70°	°
Vertical viewing angle	Front / opposite position	minimum 40° - typically 50° minimum 60° - typically 70°	°

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<p>Standard image resources</p>	<p>The duraSign Pad US 10.0 can be equipped with the following image resources:</p> <p>Standby mode: If the customer has not loaded a slide show onto the signature pad, the operating mode will show the serial number, FW version, manufacturer's logo and additional information.</p> <p>Optional slideshow: In standby mode, advertising images (slideshow) can be displayed. The signature pad also has an internal memory for at least four exchangeable advertising images. The advertising images / slideshow images can be loaded and changed by the customer.</p> <p>Standard signature mode: The background images (capture area, bottom; information area, top) can be changed by the customer. Backgrounds are loaded onto the signature pad by default similarly to the image on the left. The text in the information area can be adapted dynamically via the signature software.</p> <p>Signing in the document: A status bar is displayed at the top of the screen, showing the document page and the "rotate" button (provided this has not been deactivated by the customer).</p> <p>Document view: In "document view" mode, the User can view a multiple-page document. You can navigate by using the function bar on the right-hand side.</p> <p>(Documents, signatures, and advertising images are for illustration purposes only.)</p>	-	-
Measurement of pressure	Maximum number of differentiated pressure levels.	2048	Levels of pressure
Minimum pressure	Lowest measurable writing pressure.	approx. 0.5	Newton
Maximum pressure	Highest measurable writing pressure.	approx. 8	Newton
Connection	Standard Mini USB	Port	-
Energy use	Maximum power consumption.	1100	mA
Type of transmission	Encrypted HID. This device does not require an HW driver. It is directly recognised by Windows/Linux similarly to a mouse or keyboard. Can be switched to serial transmission via USB (for port forwarding at the Thin Client). Driver for Windows, Windows Embedded and Win CE optionally available. Also compatible with Linux and Thin-OS.	USB/HID Can be switched to USB-CDC/ACM	USB 2.0 (USB 1.1 compatible)
Encryption algorithm	Name of the standard cryptographic algorithm used for data transfer.	RSA 2048 bit AES 256 bit	-
Opening recognition (optional)	Opening recognition must be requested upon placing the order (subject to surcharge). It cannot be activated subsequently, as it requires an internal battery that supplies the 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 switched on, the firmware integrated into the main processor ascertains that the key for the volatile memory is no longer equivalent to its own, and thus that the signature pad may have been tampered with. If the signature pad should exceed the lifespan of the battery, this can be renewed by StepOver. In this regard, the device is also checked for integrity (interference) and the alarm is reset.	Optional function	Subject to surcharge - only when ordered ex works.
Date stamp (optional)	The UTC/GMT date stamp must be requested upon placing the order (subject to fee). It cannot be activated subsequently, as it requires an internal battery that supplies an internal clock with power. The date stamp may deviate by one day per year but can be set with an Internet connection of the processor with the aid of StepOver software. The software builds a	Optional function	Subject to surcharge - only when ordered ex works.

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	secure (end-to-end encrypted) connection between the signature pad and the StepOver time server, which transmits the current time to the signature pad. If the signature pad should exceed the lifespan of the battery, this can be renewed by StepOver.		
Battery	Button cell (Li-MnO ₂). The button cell is required for the optional functions of "opening recognition" and "date stamp". Signature pads that are not equipped with these functions ex: works might contain no battery.	CR2032	Type
Working temperature	Temperatures at which the pad will function according to what is specified here.	32 to +122 / 0 to +50	°F / °C with a max. of 65% RH without condensation
	Limited temperature range in particularly humid environments.	32 to +104 / 0 to +40	°F / °C with a max. of 90% RH without condensation
Storage temperature	Temperatures at which the device can be transported and stored.	14 to +158 / -10 to +70	°F / °C with a max. of 90% RH without condensation
	Recommended storage temperature for the set.	14 to +149 / -10 to +70	°F / °C with a max. of 90% RH without condensation
IP class	Protection from penetrating foreign bodies. When the cable is plugged in.	IP 42	IP class
Meets	Certificates / licenses	FCC, WEE	-
Software compatibility	In order to use this product fully, you will need a version of the following applications, of at least the same version number or higher.	eSignatureSuite from Version 5.9 EasySigner from Version 7.0 Hardware API from Version 5.9	-
Quality control / per device	Quality control and safety tests for all devices. The test protocols are linked to the serial number of the device and the coded initials of the person who carried out the tests, and are available, free of charge, for our clients on request.	Testing of each device: Operation and margin for error in measurements	1/1
General quality control measures	Selection of component providers and documented production cycles. StepOver GmbH only works with ISO certificated providers and works according to ISO regulations.	EN ISO 9000 ff	-
Identification / serial number	Each signature pad of this type has been given a unique serial number. The serial number can be found from the device's firmware and read on the display after insertion. There is also the option to add the serial number in figures for projects over 500 units and attach it as a barcode on the back of the device (subject to cost).	Code 39	Barcode type (Optional / Subject to surcharge - only when ordered ex works)
Recycling	This product can be almost entirely recycled. The parts, such as the casing, etc. are marked with information about the materials used.	WEE- Registration number	DE 27870259
Protecting the environment	The use of the sign pad saves paper.	CO2 Neutral emissions	-
Manufacturer	StepOver International	StepOver International GmbH Otto-Hirsch-Brücken 17 70329 Stuttgart Germany	Address
Country in which it is produced	Country in which the development, manufacture, and quality control takes place.	Germany	Made in Germany
Accessories included	Standard accessories.	Y-Mini-USB-cable, operating manual in multiple languages	Per 1 unit
Order number	SOI article number.	SOI	130061234

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Original product:



Important note:

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 careless.

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.

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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.

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