Step Over INTERNATIONAL

# Technical data sheet

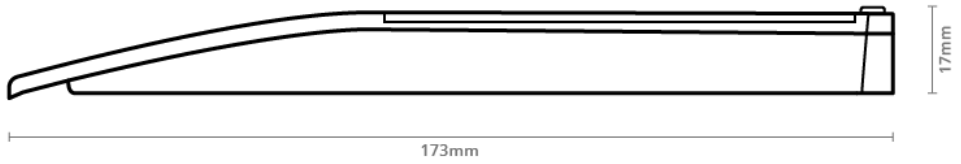
## duraSign Pad **Vivid**

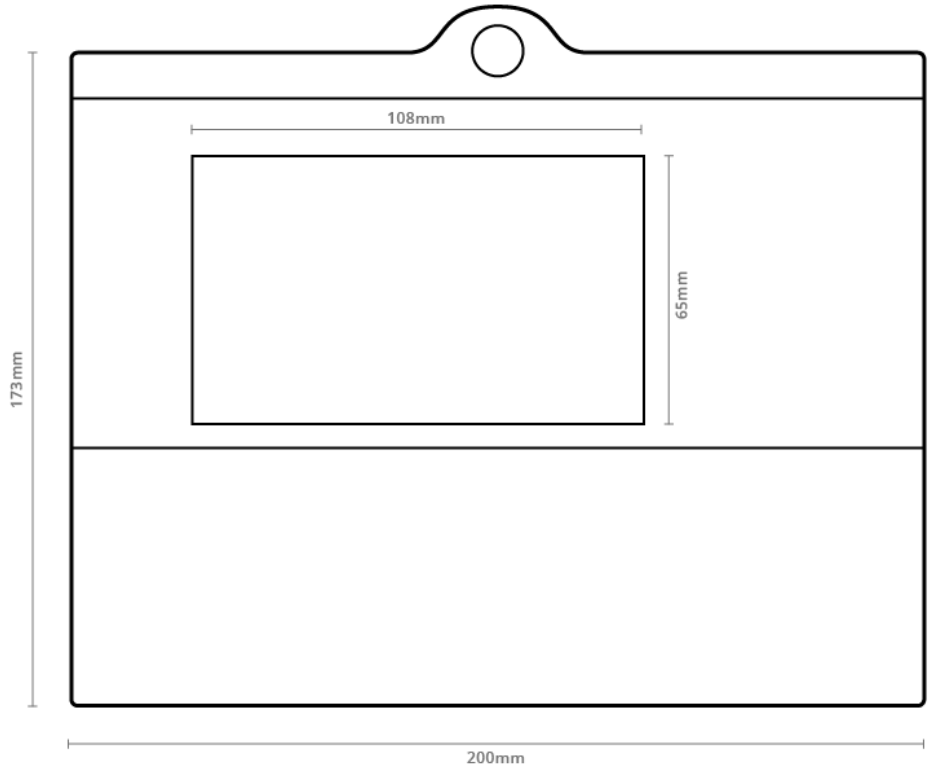
# TECHNICAL DATA SHEET
# DURASIGN PAD VIVID

## Technical data:

| General | | | |
|---|---|---|---|
| Manufacturer | StepOver International GmbH | StepOver International GmbH<br>Otto-Hirsch-Brücken 17<br>70329 Stuttgart<br>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 | 130061081 |
| 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 | 7.87 / 20 | inch / cm |
| Depth | Casing | 6.81 / 17.3 | inch / cm |
| Height | Casing | 0.67 / 1.7 | inch / cm |
| Weight | Signature pad without connector cable. | 0.85 / 385 | lbs / grams |
| Glass | Chemically tempered glass | - | - |



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## Pen

| | | | |
|---|---|---|---|
| Pen type | duraPen 1 (electro-magnetic pen; battery-free) | duraPen 1 | 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 | Colour display TFT | - | 64 k colours |
| Width | Sensor and screen capture | 4.29 / 10.9 | inch / cm |
| Depth | Sensor and screen capture | 2.64 / 6.7 | inch / cm |
| Width | Active surface - screen | 4.25 / 10.8 | inch / cm |
| Depth | Active surface - screen | 2.55 / 6.5 | inch / cm |
| Display brightness | Values of display brightness | 245 | cd/m² |
| Display | x- and y- resolution of the integrated colour screen:<br><br>Note:<br>The pad screen displays the signature in real time and can be used to display texts, documents and virtual buttons.<br><br>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 angle | Left side / right side | min 60° - typically 70° | ° |
| Vertical angle | Front / back | min 60° - typically 70°<br>/<br>min 45° - typically 50° | ° |
| Standard image resources |  <br>**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.<br><br>  <br>**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.<br><br>  <br>**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.<br><br>  <br>**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.<br><br>  <br>**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. |

## 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 | > 30 million | signatures |

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| | | | |
|---|---|---|---|
| | necessary). | | |
| Sensor material | Glass in the capture section with ERT sensor situated underneath. | Tempered glass | Surface material |
| Width | Active surface | 4.25 / 10.8 | inch / cm |
| Depth | Active surface | 2.55 / 6.5 | inch / cm |
| Spatial resolution output | Resolution of captured x- and y- coordinates (without interpolation/ without adding some coordinates to other). | X=2400 Y=2900 | DPI |
| Accuracy of repetition | Accuracy of repetition x-y measurements. | 0.019 / +/- 0,5 | inch / cm |
| 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 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 cryptographic standard 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 muss 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 ordering ex-works. |
| Opening detection (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 ordering ex-works. |

## System requirements

| | | | |
|---|---|---|---|
| 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<br>EasySigner from version 7.0<br>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<br>EasySigner from version 7.1<br>Hardware API from version 6.2<br>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 7.09.0.49 | - |

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

| | | | |
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| Connector cable | USB A connector Mini USB B connector | Length | 78.74 inch 200 cm |
| Accessories included | Standard accessories. | Connector cable, Multi-lingual operating manual | per 1 unit |

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|---|---|---|---|
| Power consumption | Maximum power consumption | 500 | 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.<br>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<br>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).<br>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 properties

| | | | |
|---|---|---|---|
| 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 | Temperature 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 |
| | | -20 to +65 | °C \| With a max. of 95% RH without condensation |
| | Recommended storage temperature for the set. | -10 to 65 | °C \| With a max. of 90% RH without condensation |
| Conformity | Certifications / approvals | FCC | - |
| 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. | $CO_2$-neutral emissions | - |
| Drilling jig | The device has two screw holes on the back for desktop or wall assembly. | - | **Download PDF document** |

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## Original product presentation:

**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 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.



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.



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