

naturaSign Pad Colour Technical Information

naturaSign Pad Colour – Technical Information

Specific features:



Because of the extremely flat design (1.2cm high) the naturaSign Pad Colour not only performs well when used on the counter, it also stands out when used on the move.

Thanks to its flat construction, offset sensor surface and lower placement of the screen, and the “turn” button, with which the sign pad, and with it the surface for resting your hand, can be rotated through 180°, so for the first time left-handed as well as right-handed people can find the optimum position for writing: just like writing on a notebook.

The integrated colour screen shows the signature in real time and can be used to view texts, graphics, parts of a document, interactive buttons and a commercial slide show.

The highest proof security on the market

Each naturaSign Pad Colour 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 safe 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 processor of the signature pad contains a public key of 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 decrypted format in the unsafe “computer” environment (e.g. working space). The private key of this second key pair is safely deposited by the notary public.

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

The naturaSign Pad Colour has a holder in the side for secure storage of the pen during transport, as well as another, vertical holder for when the pad is in use. The pen is held on a chord. The transfer of data is encrypted using a crypto-algorithm that is considered very secure (AES 256). With Win XP, Vista, Win7, Win8 or Linux, it is not necessary to install a driver. The real time internal clock (tamper-proof) gives each captured signature a GMT time stamp. The status lights and the screen show the status of the device (off: not connected; orange: ready; green: capturing signature).

The device has three holes in the back that enable it to be fixed to a desk or wall. Here you can download the relevant drilling template (mounting holes): <https://www.stepoverinfo.net/downloads/webseite/drilling-jig-Colour.pdf>

In cooperation with the international ecological organisation PrimaKlima Weltweit e.V., for each pad sold we plant an area of approximately 10m² with trees.



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Technical data:

Description	Referring to	Value	Measurement
Material	Casing	Polycarbonate	-
Width	Casing	18,5	cm.
Depth	Casing	17	cm.
Height	Casing	1,2	cm.
Width	Surface area of sensor and screen	11,4	cm.
Depth	Surface area of sensor and screen	8,5	cm.
Width	Active area of sensor	11,2	cm.
Depth	Active area of sensor	8,4	cm.
Length	Mini USB to USB cable	180	cm.
Weight	Sign pad without cable	325	grams
Temporal resolution	Groups of 4D coordinates (Each group is made up of the coordinates X, Y, pressure and time)	500	Reporting rate / 4D samples/sec
Temporal definition of the internal measurement	Internal Reporting rate (samples)	7000	Internal measuring rate / 4D samples/sec (14 times oversampling)
Spatial resolution	Definition of the captured X and Y coordinates (without adding some coordinates to other/without interpolation)	1000	DPI
Accuracy of repetition	Accuracy of repetition in X,Y measurements	+/- 0,1	mm
Display	Definition of X and Y of the incorporated TFT-Colour display (65K Colours). The screen on the pad shows the signature in real time and can be used to display texts and virtual surfaces. The advertising images/slide show images can be loaded and changed by the customer. Delivery is usually made without images; with small quantities (stock), however, the manufacturer's "standard advertising images" may have been pre-installed. These can be deleted or replaced by the customer at any time. The LED background light has an expected MTBF of 50,000 working hours.	640 x 480	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°	°
Measurement of pressure	Maximum number of differentiated pressure levels	512 or 1024	Levels of pressure
Minimum pressure	Lowest measurable writing pressure	1	Newton
Maximum pressure	Highest measurable writing pressure	10	Newton
Connection	Standard Mini-USB	Plug	-
Energy Use	No external power supply necessary	>500	mAh
Type of transmission	Encrypted HID. This device does not require a driver. It is recognised directly by Windows or Linux like a mouse or keyboard.	USB/HID	USB 2.0 (USB 1.1 compatible)
Encryption Algorithm	Name of the standard cryptographic algorithm used for the transfer of data	RSA 2048 bit AES 256	-
Working temperature	Temperatures at which the pad will 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 +80	°C with a max. of 90% RH without condensation.
Meets	Certificates	CE, WEE	-
Quality control	Quality control and safety tests for all devices. The test protocols are linked	Testing of each device:	I/I





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measures for each device	to the serial number of the device and the name of the person who carried out the tests, and are available, free of charge, for our clients on request.	Operation and margin for error in measurements	
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 fix it as a barcode on the back of the device (subject to cost).	Bar code type (optional)	Code 39
Recycling	This product can be almost entirely recycled. The parts, such as the casing, etc. are marked with information about the materials used.	RAEE Registration Number	DE 27870259
Protecting the environment	The use of the sign pad saves paper. In cooperation with the international ecological organisation PrimaKlima Weltweit e.V. We also plant an area of approximately 10m ² with trees for every sign pad of this type sold.	CO2 Neutral emissions	-
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.	Connection Cable, Instruction manual in multiple languages	1x
Order number	GTIN article number	GTIN	4260130060572

Important:

This product is protected by 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.

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It is important that the indications given in the operating and security instructions are followed. The operating instructions can be found in the following electronic manual www.StepOverInfo.net/MAN.

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