

# naturaSign Pad Flawless Technical Information

## naturaSign Pad Flawless – Technical Information

### Specific features:



The naturaSign Pad Flawless with brilliant colour screen has been specially developed for use while stationary and sets new design standards! Thanks to the extremely flat design (less than 88 mm thick), the naturaSign Pad Flawless doesn't just shine on the desk or counter - it even copes brilliantly with the demands of mobile use; in fact, wherever a sophisticated design and high level of functionality is required.

The colour screen provides enough space to insert long texts and messages. Not only can individual insertions appear on the pad display, signing directly onto documents is also possible. The high-resolution colour TFT enables the document to be displayed directly on the pad, and enables to

the signer scrolling through as well as zooming in and out.

The naturaSign Pad Flawless 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 highest proof security on the market

Each naturaSign Pad Flawless 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 transfer of data is encrypted using a crypto-algorithm that is considered very secure (AES 256). With Windows 2000, XP, Vista, Win7 and Linux, it is not necessary to install a driver. The status lights and the screen show the status of the device (off: not connected; orange: ready; green: capturing signature).

The device has two holes in the back that enable it to be fixed to a desk or wall. The accessories for mounting it are sold separately.

In cooperation with the international ecological organisation PrimaKlima Weltweit e.V., for each pad sold we plant an area of approximately 10m<sup>2</sup> with trees.



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## Technical data:

Description	Referring to	Value	Measurement
Material	Casing	Polycarbonate	-
Width	Casing	15,5	cm.
Depth	Casing	13	cm.
Height	Casing	0,8	cm.
Width	Surface area of sensor and screen	9,5	cm.
Depth	Surface area of sensor and screen	5,3	cm.
Width	Active area of sensor	9,4	cm.
Depth	Active area of sensor	5,2	cm.
Length	Micro USB to USB cable	180	cm.
Weight	Sign pad without cable	250	grams
Temporal Definition emitted/real	Groups of 4D coordinates (Each group is made up of the coordinates X, Y, pressure and time)	500	Emissions per second
Temporal definition of the measurement	Internal Reporting rate (samples)	7000	Reporting rate 4D samples/sec (super sample 14 x (14 times greater))
Optical definition emitted/real	Definition of the captured X and Y coordinates (without adding some coordinates to other/without interpolation)	1.000	DPI
Accuracy of repetition	Accuracy of repetition in X,Y measurements	+/- 0,1	mm
Screen definition	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.	480 x 272	pixels
Development of pressure	Capturing pressure	512	Levels of pressure
Minimum pressure	Minimum pressure that can be measured	1	Newton
Maximum pressure	Maximum pressure that can be measured	10	Newton
Connection	Standard Micro-USB	Plug	-
Energy Use	No external power supply necessary	>500	mAh
Assistance for USB hibernation.	Not all computers or laptops deactivate the power in the USB ports when they hibernate. Because of this, only those external devices that transmit the computer's hibernation warnings and can turn themselves off actually help to save energy.	yes	Turns off screen, status lights, etc.
Type of transmission	HID encrypted with individual key and authorisation function. 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 measures for each device	Quality control and safety tests for all devices. The test protocols are linked 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.	Testing of each device: Operation and margin for error in measurements	1/1





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Quality control measures, random testing	Random testing to ensure reliable quality in diverse situations.	Verification by a graphologist and external testing of the measurements	1/5000
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 sign pad of this type has a unique serial number. The serial number can be found at the display after connecting the pad with the computer. The serial number can also be obtained from the device's firmware.	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 <sup>2</sup> with trees for every sign pad of this type sold.	CO <sub>2</sub> 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, Connection cable with angled plug, Instructions in various languages	One piece each
Order number	EAN article number	EAN	4260130060589

### Important:

This product is protected by property rights and national and international patents.  
The right to make technical changes that improve the device's performance is reserved.  
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