








**COMPARISON OF SIGNOTEC SIGNATURE PADS**

**The following list is intended exclusively to serve as a research tool and makes no claims to being accurate, correct, complete or current. Any liability is therefore excluded!**

	<b>Sigma LITE</b>	<b>Sigma</b>	<b>Omega</b>	<b>Zeta</b>	<b>Gamma</b>	<b>Delta Signature Pad</b>	<b>Delta Pen-Display</b>
<b>Image</b>							
<b>Display type</b>	No display	Monochrome LCD	Full-colour TFT LCD	Monochrome LCD	Full-colour LCD	Full-colour LCD	Full-colour LCD
<b>Display size</b>	✗	4" (10,4 cm)	5" (12,8 cm)	4,5" (11,4 cm)	5" (12,6 cm)	10.1" (25,6 cm)	10.1" (25,6 cm)
<b>Backlight</b>	✗	with or without backlight	✓	with or without backlight	✓	✓	✓
<b>Colour</b>	✗	✗	✓	✗	✓	✓	✓
<b>Surface technology</b>	Robust Polycarbonate surface coating.	Robust signing surface with ITO conductive coating and exclusive dual-layer membrane.	Robust signing surface with ITO conductive coating and exclusive dual-layer membrane.	Hardened glass with native scratch resistance. It is up to three times more scratch resistant than other glass compositions.	Hardened glass with native scratch resistance. It is up to three times more scratch resistant than other glass compositions.	Hardened glass with native scratch resistance. It is up to three times more scratch resistant than other glass compositions.	Hardened glass with native scratch resistance. It is up to three times more scratch resistant than other glass compositions.
<b>Expected lifetime</b>	2 million signatures	1 million signatures	1 million signatures	30 million signatures	30 million signatures	30 million signatures	30 million signatures
<b>Number of colours</b>	n/a	16 brightness levels b/w	65,536 (High Color)	16 brightness levels b/w	16,7 Mio. (True Color)	16,7 Mio. (True Color)	16,7 Mio. (True Color)
<b>LCD resolution</b>	n/a	320 x 160 pixels	640 x 480 pixels	320 x 160 pixels	800 x 480 pixels	1.280 x 800 pixels	1.280 x 800 pixels
<b>Scrolling</b>	✗	✗	✗	✗	✗	✗	Monitor Extension
<b>Authentication capability</b>	✓	✓	✓	✓	✓	✓	✗
<b>Unlimited softkeys</b>	✓	✓	✓	✓	✓	✓	Monitor Extension
<b>Design</b>							
<b>Manufacturing</b>	Germany	Germany	Germany	Germany	Germany	Germany	Germany
<b>Software development/support</b>							
<b>SENSOR</b>							
<b>Sensor technology</b>	Resistive Touch Panel (RTP)	Resistive Touch Panel (RTP)	Resistive Touch Panel (RTP)	Electromagnetic Resonance Technology (ERT); Suitable for on-screen hand writing. Sensitive to ERT Stylus only, no influence by hand touch, no erroneous input.	Electromagnetic Resonance Technology (ERT); Suitable for on-screen hand writing. Sensitive to ERT Stylus only, no influence by hand touch, no erroneous input.	Electromagnetic Resonance Technology (ERT); Suitable for on-screen hand writing. Sensitive to ERT Stylus only, no influence by hand touch, no erroneous input.	Electromagnetic Resonance Technology (ERT); Suitable for on-screen hand writing. Sensitive to ERT Stylus only, no influence by hand touch, no erroneous input.
<b>Active signing area</b>	91 x 45 mm	91 x 45 mm	100 x 75 mm	96 x 60 mm	108 x 65 mm	217 x 136 mm	217 x 136 mm
<b>Pressure sensor unit</b>	1.024	1.024	1.024	1.024	1.024	2.048	2.048
<b>Pen type</b>	Tethered passiv stylus with changeable cartridge	Tethered passiv stylus with changeable cartridge	Tethered passiv stylus with changeable cartridge	Tethered active stylus with changeable tip	Tethered active stylus with changeable tip	Tethered active stylus with changeable tip	Tethered active stylus with changeable tip
<b>Battery free pen</b>	✓	✓	✓	✓	✓	✓	✓
<b>Internal sampling rate</b>	6.000 pps	6.000 pps	6.000 pps	-	-	-	-
<b>Coordinate accuracy</b>	+/- 1,5 % in x, y and z	+/- 1,5 % in x, y and z	+/- 1,5 % in x, y and z	+/- 0,4 mm (center)	+/- 0,4 mm (center)	+/- 0,4 mm (center)	+/- 0,4 mm (center)
<b>Sensor resolution</b>	2.214 x 1.130 ppi	2.214 x 1.130 ppi	1.387 x 1.040 ppi	2.487 x 2.499 ppi	2.400 x 2.910 ppi	1.264 x 1.292 ppi	1.264 x 1.292 ppi
<b>Detectable height</b>	-	-	-	5 - 15 mm	5 - 15 mm	5 - 15 mm	5 - 15 mm
<b>Signature sampling report rate</b>	500 pps	500 pps	500 pps	500 pps	500 pps	500 pps	280 pps
<b>ELECTRONICS / DIGITISATION</b>							
<b>Communication/connectivity</b>	Secure HID-USB; High-Speed WinUSB	Secure HID-USB; High-Speed WinUSB; Optional hardware FTDI VCOM	Secure HID-USB; High-Speed WinUSB; Optional hardware FTDI VCOM	Secure HID-USB; High-Speed WinUSB; Optional hardware FTDI VCOM	Secure HID-USB; High-Speed WinUSB; Optional hardware FTDI VCOM	Secure HID-USB; High-Speed WinUSB; Optional hardware FTDI VCOM	Secure HID and DisplayLink®-Technology
<b>HID-USB (64KB/sec)</b>	✓	✓	✓	✓	✓	✓	✓
<b>USB Full Speed (12 MB/sec)</b>	✗	✗	✓	✓	✓	✓	✓
<b>USB High Speed (460 MB/sec)</b>	✗	✗	✓	✓	✓	✓	✓
<b>RS232 via USB (virtual com port)</b>	✓	✓	✓	✓	✓	✓	✗
<b>RS232 VCOM and USB</b>	RS232 or USB	RS232 or USB	Interchangeable in service-menu	RS232 or USB	Interchangeable in service-menu	Interchangeable in service-menu	✗
<b>Near Field Communication (NFC)</b>	✗	✗	Yes, optional	✗	✗	✗	✗
<b>Advanced Security: Biometric encryption inside the pad</b>	✓	✓	✓	✓	✓	✓	✗
<b>Advanced Security: LCD content signing</b>	✓	✓	✓	✓	✓	✓	✗
<b>Advanced Security: PDF-Signing inside the pad</b>	✓	✓	✓	✓	✓	✓	✗
<b>Create unique cert inside pad</b>	✓	✓	✓	✓	✓	✓	✗
<b>Store customer specific Cert inside pad</b>	✓	✓	✓	✓	✓	✓	✗
<b>Store customer public key inside pad</b>	✓	✓	✓	✓	✓	✓	✗
<b>Internal unique serial number</b>	✓	✓	✓	✓	✓	✓	✓
<b>Status display</b>	2 colored and freely programmable LEDs	2 colored and freely programmable LEDs	2 colored and freely programmable LEDs	2 colored and freely programmable LEDs	2 colored and freely programmable LEDs	2 colored and freely programmable LEDs	Status LED
<b>Software</b>	Several SDKs available for integration.	Several SDKs available for integration.	Several SDKs available for integration.	Several SDKs available for integration.	Several SDKs available for integration.	Several SDKs available for integration.	Tablet-PC API, SDK for pen input, mouse input
<b>Memory</b>	✗	✓	Internal memory for 10 pictures which can be used for static content (fast switching between different pages) and slide shows.	✓	Internal memory for 10 pictures which can be used for static content (fast switching between different pages) and slide shows.	Internal memory for 32 pictures which can be used for static content (fast switching between different pages) and slide shows.	✗
<b>Real signature device or monitor extension</b>	Real signature device	Real signature device	Real signature device	Real signature device	Real signature device	Real signature device	DisplayLink Monitor Extension
<b>Power supply</b>	USB	USB	USB	USB	USB	USB Y-cable	USB Y-Cable
<b>OPERATING AND STORAGE CONDITIONS</b>							
<b>Surface liquid resistance</b>	✓	✓	✓	✓	✓	✓	✓
<b>Operational temperatures</b>	-10°C to +60°C	-10°C to +60°C	-10°C to +45°C	-10°C to +45°C	-10°C to +45°C	-10°C to +45°C	-10°C to +45°C
<b>Storage temperature</b>	-25°C to 70°C	-25°C to 70°C	-25°C to 70°C	-25°C to 70°C	-25°C to 70°C	-25°C to 70°C	-25°C to 70°C
<b>Humidity</b>	<= 90% non-condensing	<= 90% non-condensing	<= 90% non-condensing	<= 90% non-condensing	<= 90% non-condensing	<= 90% non-condensing	<= 90% non-condensing
<b>MISCELLANEOUS</b>							
<b>Operating systems</b>	Windows 7 (or newer), Windows Server 2012 (or newer), 32- and 64-Bit, Terminal Server (RDP, Citrix), Linux	Windows 7 (or newer), Windows Server 2012 (or newer), 32- and 64-Bit, Terminal Server (RDP, Citrix), Linux	Windows 7 (or newer), Windows Server 2012 (or newer), 32- and 64-Bit, Terminal Server (RDP, Citrix), Linux	Windows 7 (or newer), Windows Server 2012 (or newer), 32- and 64-Bit, Terminal Server (RDP, Citrix), Linux	Windows 7 (or newer), Windows Server 2012 (or newer), 32- and 64-Bit, Terminal Server (RDP, Citrix), Linux	Windows 7 (or newer), Windows Server 2012 (or newer), 32- and 64-Bit, Terminal Server (RDP, Citrix), Linux	Windows 7 (or newer), Windows Server 2012 (or newer), 32- and 64-Bit, Terminal Server (RDP, Citrix), Linux
<b>Development environments</b>	Desktop and Web SDK/API: .Net Assembly (C#, VB), C++, Java, ActiveX, Linux, browser integration (JavaScript/WebSocket)	Desktop and Web SDK/API: .Net Assembly (C#, VB), C++, Java, ActiveX, Linux, browser integration (JavaScript/WebSocket)	Desktop and Web SDK/API: .Net Assembly (C#, VB), C++, Java, ActiveX, Linux, browser integration (JavaScript/WebSocket)	Desktop and Web SDK/API: .Net Assembly (C#, VB), C++, Java, ActiveX, Linux, browser integration (JavaScript/WebSocket)	Desktop and Web SDK/API: .Net Assembly (C#, VB), C++, Java, ActiveX, Linux, browser integration (JavaScript/WebSocket)	Desktop and Web SDK/API: .Net Assembly (C#, VB), C++, Java, ActiveX, Linux, browser integration (JavaScript/WebSocket)	Desktop and Web SDK/API: .Net Assembly (C#, VB), C++, Java, ActiveX, Linux, browser integration (JavaScript/WebSocket)
<b>Browser support</b>	Chrome, Opera, Firefox, MS IE, MS Edge	Chrome, Opera, Firefox, MS IE, MS Edge	Chrome, Opera, Firefox, MS IE, MS Edge	Chrome, Opera, Firefox, MS IE, MS Edge	Chrome, Opera, Firefox, MS IE, MS Edge	Chrome, Opera, Firefox, MS IE, MS Edge	Chrome, Opera, Firefox, MS IE, MS Edge
<b>Customization</b>	Yes, min. 50 units	Yes, min. 50 units	Yes, min. 50 units	Yes, min. 50 units	Yes, min. 50 units	Yes, min. 50 units	Yes, min. 50 units
<b>Security/encryption</b>	AES-256 encrypted connection with RSA-key-exchange. Secure mode which doesn't decrypt signature data at host for real-time display.	AES-256 encrypted connection with RSA-key-exchange. Secure mode which doesn't decrypt signature data at host for real-time display.	AES-256 encrypted connection with RSA-key-exchange. Secure mode which doesn't decrypt signature data at host for real-time display.	AES-256 encrypted connection with RSA-key-exchange. Secure mode which doesn't decrypt signature data at host for real-time display.	AES-256 encrypted connection with RSA-key-exchange. Secure mode which doesn't decrypt signature data at host for real-time display.	AES-256 encrypted connection with RSA-key-exchange. Secure mode which doesn't decrypt signature data at host for real-time display.	AES-256 encrypted connection.
<b>Terminal server</b>	✓	✓	✓	✓	✓	✓	✓
<b>Data interface</b>	USB	USB	USB	USB	USB	USB and Ethernet	USB
<b>Data cable length</b>	2 or 5 meter fixed cable	2 or 5 meter fixed cable	2 or 5 meter fixed cable	2,7 meter detachable	2,7 meter detachable	2,7 meter detachable	2,7 meter detachable
<b>Input voltage</b>	5 V powered from USB	5 V powered from USB	5 V powered from USB	5 V powered from USB	5 V powered from USB	5 V powered from USB	5 V powered from USB
<b>RoHS directive compliant</b>	✓	✓	✓	✓	✓	✓	✓
<b>Touchscreen protectors</b>	-	Optional	Optional	-	-	-	-
<b>Warranty</b>	2 years (opt. up to 5 years)	2 years (opt. up to 5 years)	2 years (opt. up to 5 years)	2 years (opt. up to 5 years)	2 years (opt. up to 5 years)	2 years (opt. up to 5 years)	2 years (opt. up to 5 years)
<b>TOOLS</b>							
<b>signoIntegrator / 2</b>	Included	Included	Included	Included	Included	Included	Included
<b>signoImager / 2</b>							
<b>MS-Office Add-In</b>							
<b>RSA-Manager</b>							
<b>Free updates/maintenance for tools and SDK</b>	✓	✓	✓	✓	✓	✓	✓
<b>DIMENSIONS</b>							
<b>Product dimensions (H x D x W)</b>	10 x 160 x 120 mm	10 x 160 x 120 mm	15 x 180 x 191 mm	12 x 177 x 145 mm	12 x 177 x 145 mm	13-23 x 205 x 280 mm	13-23 x 205 x 280 mm
<b>Weight</b>	ca. 170 gr.	ca. 230 gr.	ca. 320 gr.	ca. 240 gr.	ca. 280 gr.	ca. 830 gr.	ca. 850 gr.
<b>List price</b>	115,00 €	169,00 €	269,00 €	189,00 €	269,00 €	449,00 €	2 Jahre, plus optionale Verlängerung