








**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.  |