

## **Hanvon Pen Display ESP1020E**



### **Introduction**

Pen display ESP1020E, integrated with LCD and Hanvon patented electromagnetic resonance technology, is designed for the purpose of handwriting in electronic signature capturing application. The EMR component consists of a cordless battery-free stylus and a sensor board.

### **Features**

- Hardware integration of LCD display and digitizer with battery-free pen.
- Signature data capturing including pressure sensitivity, handwriting track etc.
- Work as second monitor, as either expanded or mirrored screen.
- Intuitiveness and ease of use with hand-eye coordination and zero learning curve
- The hardware generates asymmetric cryptography key for the PKI management and signature data encryption.

## Specs:

| Panel Description           |                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------|
| Panel Size                  | 10.1Inch                                                                          |
| Panel Type                  | TFT LCD                                                                           |
| Display Ratio               | 16:10                                                                             |
| Active Area                 | 216.96 (W)X135.6 (H) mm                                                           |
| Pixels                      | 1280*800                                                                          |
| Pixel Pitch                 | 0.1695mmX0.1695mm                                                                 |
| White Luminance             | 160cd/m <sup>2</sup> (powered on)                                                 |
| Color                       | 16.7M                                                                             |
| Contrast Ratio              | 800:1                                                                             |
| Viewing Angle               | 170(85/85) / 170(85/85) (Typ)                                                     |
| Response Time (Tr + Tf)     | TR 14ms (Typ). TF 11ms (Typ)                                                      |
| Touch Description           |                                                                                   |
| Touch Technology            | Patented electromagnetic resonance technology                                     |
| Resolution                  | 2048LPI                                                                           |
| Pressure Level              | 1024 levels                                                                       |
| Report Rate                 | 200pps                                                                            |
| Accuracy                    | ±0.5mm (Center), ±1mm(Edge)                                                       |
| Tilt Angle                  | ±45° from Vertical                                                                |
| Sensor Height               | 7 mm                                                                              |
| Interface                   | USB                                                                               |
| Type                        | Cordless and battery free                                                         |
| Pen Tip                     | Changeable                                                                        |
| Dimensions                  | 9 x 131.2 (L)mm                                                                   |
| Weight                      | 8.48g                                                                             |
| Signature data cryptography | AES256/RSA2048                                                                    |
| Power Supply                |                                                                                   |
| Power Supply Type           | USB powering (5V, 1A)                                                             |
| USB power                   | Plug-and-play                                                                     |
| Consumption                 | 5W                                                                                |
| Interface                   |                                                                                   |
| Input                       | USB*1                                                                             |
| Software development        | Free sdk (lib,dll, ocx websocket etc) for C++,.Net and Java developers in Windows |
| Others                      |                                                                                   |
| Dimension                   | 290(L)*210(W)*20(H)mm                                                             |
| Net Weight                  | 0.75KG                                                                            |
| Gross Weight                | 1.15KG                                                                            |
| Color                       | Black                                                                             |

|                     |                                             |
|---------------------|---------------------------------------------|
| Working Temperature | 0~65℃                                       |
| Working Humidity    | 20~80%                                      |
| Storage Temperature | -10~80℃                                     |
| Storage Humidity    | 10~90%                                      |
| Support OS          | WinXP/XPE/Win7/Win8/Win10/11 （32 and 64bit） |
| Panel Screen        | Tempered glass                              |
| Packing List        |                                             |
| Display             | 1                                           |
| Stylus              | 1                                           |
| USB Cable           | 1                                           |
| Stylus lanyard      | 1                                           |
| CD                  | 1                                           |