

Futronic FS10 1"x1" Fingerprint Scanner

Major features and benefit:

FS10 is Futronic 1"x1" fingerprint scanner for single-finger scanner market. It was certified by FBI to be compliant with PIV-071006 Image Quality Specification for Single Finger Reader. So it meets the US Federal Information Processing Standard 201(FIPS 201) for Personal Identification Verification (PIV) of Federal Employees and Contractors.

FS10 uses advanced CMOS sensor technology and precise optical system to meet the rigorous requirement of fingerprint image quality of PIV-071006. Its fingerprint scanning window is crown glass that stands scratches and other strikes to ensure long term heavy duty usage. It is a robust but cost effective single finger capture device which is ideal for border control, identity card, driver license, election and any type of civilian AFIS application.

A unique serial number is factory-programmed into the USB Device Descriptor of each FS10. So every FS10 is traceable and this is very important for government identity management projects.



Electrical characteristics

Light source : Infrared LED
Supply voltage : DC 4.5-5.5V via USB port
ESD contact – 8KV no permanent damage
ESD air discharge - 16KV no permanent damage.

Supported OS Platforms

Futronic provides Application Programming Interface (API) for FS10 to capture fingerprint image on the following platforms:

- Windows XP/2003, 32 bit and 64 bit
- Windows Vista/2008/2012, 32 bit and 64 bit
- Windows 7/8/10/11, 32 bit and 64 bit
- Linux with kernel 2.4 or higher (for x86, x64 and ARM9)
- Android 3.1 or higher (with USB host)
- MAC OS(version 10.5 and higher)

Please contact Futronic for more details.

Specifications

- Finger scanning window size : 29 x 29.5mm
- Scanning area : 25.4 x 25.4mm (1"x1")
- Image resolution is 500x500 pixels, 500 DPI, 8bit grayscale. No interpolation used
- Raw fingerprint image file size is 250K bytes
- Support Live Finger Detection (LFD)
- USB 2.0 high speed only
- Unique serial number programmed to USB Device Descriptor
- With a 2M standard USB cable
- Small size : 75 x 73 x 36 mm
- Light weight : 200 gram
- Operation temperature: -10 to +55 °C
- Relative Humidity : 0-90% non-condensing

Compliant to following standards

- FIPS 201/PIV 071006 Image Quality Specification
- Mobile ID FAP30
- Microsoft WHQL
- FCC and CE,
- Ingress Protection Rating: IP54(scanning window only)

FS11 OEM Module

FS11 is OEM module of FS10 for customers who want to integrate FS10 into their own products, such as handheld POS machine and portable voter registration station. It is same as FS10 but without plastic shell and USB cable so that it can be embedded into any target system. Please contact Futronic for more details.



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