

FS10

1"x1" Fingerprint Scanner



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 resists scratches and other stress to ensure long term heavy duty usage. It is a robust but cost effective single finger capture device and 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.

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, 32 bit and 64 bit.
- Windows 8/8.1, 32 bit and 64 bit.
- Linux with kernel 2.4 or higher (for both x86 and ARM9)
- Android 3.1 and higher with USB Host port
- MAC OS(version 10.5 and higher, Intel CPU)

Compliant to following standards

- FIPS 201/PIV 071006 Image Quality Specification
- Mobile ID FAP30
- Microsoft WHQL
- FCC and CE
- RoHS

Electrical characteristics

- Light source: Infrared LED
- Supply voltage: DC 4.5-5.5V via USB port
- Power consumption:
 - active <900mW(during finger scanning)
 - standby <400mW
 - sleep mode <2mW
- ESD contact - 8KV no permanent damage
- ESD air discharge - 16KV no permanent damage

Specification

- Fingerprint scanning window size : 29 x 29.5mm
- Scanning area : 25.4 x 25.4mm (1"x1")
- Image resolution is 500x500 pixels, 500 DPI
- Image format is 8 bit 256 grayscale
- No interpolation used
- Raw fingerprint image file size is 250K bytes
- 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 Degree Celsius
- Relative Humidity : 0-90% non-condensing

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