

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 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.



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
Color depth 8 bits gray scale
No interpolation used
Raw fingerprint image file size is 250K bytes
USB 2.0 compatible, plug and play device
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

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.

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, 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/ARM9)
Android 3.1 or higher (with USB host)
Windows CE 5.0 and 6.0 (for both x86 and ARM9)
MAC OS(version 10.5, Intel CPU)
Please contact Futronic for more details.

Compliant to following standards

FIPS 201/PIV 071006 Image Quality Specification
Microsoft WHQL
FCC and CE,
RoHS

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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