

Futronic FS10 1"x1" Fingerprint Scanner

Major features and benefit:

FS10 is Futronic 1x1" 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 25.4 mm (1"x1")
 Image resolution is 500 x 500 pixels, 500 DPI
 Color depth 8 bits gray scale
 No interpolation used
 Raw fingerprint image file size is 250K bytes
 USB2.0 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 oC
 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)
 MACOS (version 10.5 and higher, 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 the 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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