

## Futronic FS50 FIPS201/PIV Compliant USB2.0 Fingerprint Scanner



### Specification

Fingerprint scanning window size is 1.6 x 1.5 inch (40.64 x 38.10 mm)  
 Image resolution is 800 x 750 pixel, 500 DPI  
 Light source: Infrared LED  
 Fingerprint image file size is 600K byte  
 USB 2.0 compatible interface, plug and play device  
 Unique serial number programmed to USB Device Descriptor  
 With 8K Byte memory for application-specific data storage  
 With a detachable 2M standard USB cable  
 ESD contact -8KV and air discharge -16KV, no permanent damage  
 Operation temperature: -10 to +55 Degree Celsius  
 Size, 110 x 110 x 45 mm  
 Weight, 460g with USB cable, 380g without USB cable

### Application

Criminal identification  
 National ID card  
 E-passport Voter registration and verification  
 Driving License

### Major features and benefit:

FS50 is a professional Fingerprint Scanner from Futronic with 1.6 x 1.5 inch (40.64 x 38.10 mm) scanning area. Its advanced optical system can capture a high quality image in 0.1 second. It can also handle bad fingers such as dry, wet, blurred and scarred without any problem. Its scanning window is crown glass prism with a thickness of 33mm. There is also special anti-scratching coating on the scanning surface of the prism. This makes FS50 even more robust and ensures long term heavy duty usage in any harsh environment.

FS50 can capture single finger, dual finger and roll finger image. It was certified by FBI to be compliant with PIV-071006 Image Quality Specification for Single Finger Reader. So FS50 meets the US Federal Information Processing Standard 201(FIPS 201) for Personal Identification Verification (PIV) of Federal Employees and Contractors. It is also listed in the US General Services Administration (GSA) FIPS 201 Evaluation Program

A unique serial number is factory-programmed into the USB Device Descriptor of each FS50. So every FS50 is traceable and this is very important for government identity management projects. Futronic provides Application Programming Interface (API) for FS50 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 7/8, 32 bit and 64 bit.
- Linux with kernel 2.4 or higher (for both x86 and ARM9)
- Windows CE 5.0 and 6.0 (for both x86 and ARM9)
- MAC OS(version 10.5, 10.6 and 10.7, Intel CPU)

Please contact Futronic for more details.

### FS51

FS51 is OEM module of FS50. It is available for customers who want to integrate FS50 into their own products, such as handheld ID verification machine, portable voter registration station, etc.

FS51 is same as FS50 but without plastic shell and USB cable so that it can be embedded into any target system. It is even smaller and lighter:

- Size, 91 (L) x 89(W) x 37(H)mm
- Weight, 300 gram

Please contact Futronic for detail mechanical drawing.