

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

## **Major features and benefit:**

FS50 is a large image size USB2.0 Fingerprint Scanner from Futronic. 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 Approved Product List.

FS50 uses advanced image sensor technology and precise optical system to meet the rigorous requirement on 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, dual or rolling finger capture device and ideal for border control, identity card, driver license, election and any type of civilian AFIS application.

FS50 provides rolling fingerprint scanning feature which makes it suitable for applications required rolling fingerprint image. 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.



## **Specification**

- Finger scanning window size is 40.64 x 38.1mm
- Image resolution is 800x750 pixel, 500 ppi
- Fingerprint image file size is 600K byte
- USB 2.0 compatible, plug and play device
- Unique serial number programmed to USB Device Descriptor
- With 16K Byte memory for application-specific data storage
- With detachable 2M standard USB cable.
- Programmable dual color green, red LED for indication.
- Size, 110 x 110 x 45.5 mm
- Weight, 460/380 gram, with/without cable
- Operation temperature: -10 to +55 C

## **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, 32 bit and 64 bit
- Linux with kernel 2.4 or higher (for both x86/ARM9)
- Windows CE 5.0 and 6.0 (for both x86 and ARM9)
- MAC OS

## **Electrical characteristics**

- Light source: Infrared LED
- Supply voltage: DC 4.5-5.5V via USB port
- Power consumption:
  - Active<1500mW(during finger scanning),
  - Standby<750mW,
  - sleep mode<5mW
- ESD contact – 8KV no permanent damage
- ESD air discharge - 16KV no permanent damage.

## **Compliant to following standards**

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



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