

# Futronic FS52 / 53 EBTS/F Compliant USB2.0 Fingerprint Scanner

## Major features and benefit:

FS52 is a large image size USB2.0 Fingerprint Scanner from Futronic. It was certified by FBI to be compliant with EBTS/F Image Quality Specification for single and dual Finger Reader.

FS52 uses advanced image sensor technology and precise optical system to meet the rigorous requirement on fingerprint image quality of EBTS/F. Its fingerprint scanning window is crown glass that stands scratches and other strikes to ensure long term heavy duty usage. It is a robust but cost effective single and dual finger capture device and ideal for border control, identity card, driver license, election and any type of civilian AFIS application.

FS53 is the modular form of FS52 without shell and USB cable. It is suitable for embedded application like self-service border control kiosk, mobile voting system, etc. 3D drawing which is helpful to do the integration with this module is available upon request.



## Specification

- Finger scanning window size is 40.64 x 38.1mm
- Image resolution is 800x750 pixel, 500 ppi
- Image format is 8 bit 256 gray scale
- Support Live Finger Detection (LFD)
- Fingerprint image file size is 600K bytes
- Max. 15 fps frame rate.
- 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

## Electrical characteristics

- Light source: Infrared LED
- Supply voltage: DC 4.5-5.5V via USB port
- ESD contact – 8KV no permanent damage
- ESD air discharge - 16KV no permanent damage.

## Compliant to following standards

- EBTS/F Image Quality Specification
- Microsoft WHQL
- FCC and CE
- Ingress Protection Rating: IP54(scanning window only)

**Futronic provides Application Programming Interface (API) for FS52/53 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 7/8/10/11, 32 bit and 64 bit
- Linux with kernel 2.4 or higher (for x86/x64/ARM9)
- Windows CE 5.0 and 6.0 (for both x86 and ARM9)
- MAC OS (version 10.5 and higher)

**Please contact Futronic for more details.**



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