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SPC AG

FINGERPINT READER

FS-88



FS-88 FIPS201/PIV Compliant Fingerprint Scanner

SPC FS-88 is an USB2.0 Fingerprint Scanner, which was certified by FBI to be compliant with PIV-071006 Image Quality Specification for Single Finger Reader. So FS-88 meets the US Federal Information Processing Standard 201(FIPS 201) for Personal Identification Verification (PIV) of Federal Employees and Contractors.

FS-88 uses advanced CMOS 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 with a thickness of 14mm 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.



Special electronic circuit is built into FS-88 to do Live Finger Detection (LFD). With appropriate software in PC, user can select this LFD feature so that only live finger's fingerprint will be scanned into PC. Fake fingers made from silicone rubber, play-doh, etc, will be rejected.

A unique serial number is factory-programmed into the USB Device Descriptor of each FS-88. So every FS-88 is traceable and this is very important for government identity management projects.

We provide Application Programming Interface (API) for FS-88 to capture fingerprint image.



Technica Data

Specifications	
Dimension	66 mm x 66 mm x 29 mm
Platen Size	16 mm x 24 mm
Weight	150 gram
Resolution	500 dpi
Raw fingerprint image size	150 bytes
Image Type	monochrome image at 8 bits per pixel, 256 gray-levels (prior to any compression)
Minutiae value	16 - 56
Operating Temperature	-10°C to 55°C
Operating Humidity	10 % - 90 % non-condensing
Light source	Infrared LED
Supply voltage	DC 4.5-5.5V via USB port
Power consumption	<ul style="list-style-type: none">● active <700mW(during scanning)● standby <200mW(when scanner is connected PC, no scanning)● sleep mode <12.5mW(activated by standard USB bus event only)
ESD contact	8KV and air discharge - 16KV, no permanent damage
Light source	Infrared LED
Supply voltage	DC 4.5-5.5V via USB port
Power consumption	<ul style="list-style-type: none">● active <700mW(during scanning)● standby <200mW(when scanner is connected to PC, no scanning)● sleep mode <12.5mW(activated by standard USB bus event only)
Compliance	FCC, CE, RoHS
Interface	USB 2.0 compatible interface, plug and play device
API OS support	<ul style="list-style-type: none">● 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 and ARM9)● Windows CE 5.0 and 6.0 (for both x86 and ARM9)● Mac X v10.x

Features
Compliance to FIPS 201/PIV 071006 Image Quality Specification
Microsoft WHQL
With Live Finger Detection (LFD) feature
Unique serial number programmed to USB Device Descriptor
With 16K Byte memory for application-specific data storage