

Futronic FS80H

USB2.0 Fingerprint Scanner



Description

The Futronic FS80H is a high quality optical fingerprint scanner with a rugged case and tough crown glass window. Futronic's FS80H USB 2.0 Fingerprint Scanner uses advanced CMOS sensor technology and precise optical system to deliver a high quality fingerprint image. It can capture an almost un-distorted raw fingerprint image into a PC in 100ms, making it ideal for a fingerprint recognition application.

Its finger scanning window is 14mm thick, which means it is much more reliable and robust compared to any semiconductor-type fingerprint sensor.

The finger is illuminated by 4 infra-red LEDs during scanning and the light intensity is automatically adjusted according to a fingerprint's characteristics (wet, dry, blurred, etc) to optimize the quality of the captured fingerprint image. A special electronic circuit is built into the FS80H to do Live Finger Detection (LFD). With the appropriate software in a PC, a user can select this LFD feature so that only a live fingerprint will be scanned. Fake fingers made from silicone, rubber, play-doh, etc, will be rejected.



Features and Benefits

- Precise optics allow the scanning of practically undistorted fingerprint images
- Live Finger Detection rejects fake fingers made from silicone, rubber, play-doh or other materials
- Infra-red illumination allows scanning of wet, dry, blurred and other problematic fingers
- Rugged sensor has a thick (14 mm) crown glass used for platen
- Practically indestructible scanner surface

For any biometric scanner to capture and/or match fingerprints, biometric software is needed and does not ship with the scanner.

Please contact

Fulcrum Biometrics Southern Africa

to ensure that you are compiling the best solution for your needs.

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Technical Specifications

Physical	Size: 64 x 66 x 27 mm Weight: 120 g Operating temperature: -10 to + 55 °C 2M standard USB cable Supply voltage: C 4.5-5.5 V via USB port Power consumption: Active <700mW, Standby <200mW, Sleep mode <2.5mW ESD contact - 8KV no permanent damage ESD air discharge - 16DV no permanent damage
Fingerprint Sensor	Window size: 16 x 24 mm Image resolution: 320x480 pixels, 500 DPI, 8 bit grey level Fingerprint image size: 150K Live Finger Detection (LFD) feature
PC Requirements	XP/2003, Vista/2008, 7/2008 R2, and 8/2012 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) Android 3.1 and higher with USB Host port
Certifications	RoHS, FCC, CE, Ingress Protection Rating: IP54 (scanning window only)
Standards/Compliance	Microsoft WHQL
Compatibility	Fulcrum Biometrics Framework (FbF®) , Biodentify , VeriFinger SDK, MegaMatcher SDK, Futronic SDK, Innovatrics SDK

Also Available

FS81H OEM Module

FS81H is the OEM module of the FS80H for customers who want to integrate FS80H into their own products, such as handheld POS machines and portable voter registration stations. It is the same scanner as a FS80H but without the plastic shell and USB cable so that it can be embedded into any target system. Unlike the FS80H, the FS81H does not support Live Finger Detection (LFD).

Please contact Fulcrum Biometrics Southern Africa for detailed mechanical drawing.



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