Futronic FS81 USB2.0 Fingerprint Scanner module

Major features and benefit:

Futronic's FS81 USB2.0 Fingerprint Scanner module uses advanced CMOS sensor technology and precise optical system to deliver high quality fingerprint image. It can capture a raw fingerprint image via USB2.0 into host system in 100ms. So it is good for any fingerprint recognition application.

Its finger scanning window is a crown glass with a thickness of 14mm. So 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 scanning fingerprint's characteristics (wet, dry, blurred, etc) to optimize the quality of the captured fingerprint image.

FS81 has a 5 pins JST connector for connecting to USB host. Futronic provides USB drivers and API for capturing raw fingerprint image on MS Windows, Linux and Windows CE. So it is an ideal solution for adding fingerprint recognition to standalone device.

Specification

- Fingerprint scanning window size is 16x24mm
- Image resolution is 480x320 pixel, 500 DPI
- Raw fingerprint image file size is 150K byte
- With 5 pin JST connector for USB connection.
- USB 2.0 compatible interface, plug and play device
- WHQL approved for Vista 32bit and 64bit
- Small size, 45 x 55 x 20 mm
- Light weight, 80 gram
- Operation temperature: -10 to +55 Degree Celsius

Demo program

Futronic provides USB drivers and API for FS81 to capture a raw fingerprint image on the following platforms:

- Windows 2000/XP, Vista 32bit and 64 bit
- Linux with kernel 2.4 or after
- Windows CE 5.0 and 6.0

Please download demo programs from www.futronic.com.hk to try and contact Futronic for more details.

Electrical characteristics

- Light source: Infrared LED
- Supply voltage: DC 4.5-5.5V via USB port
- Power consumption:
  - active < 500mW(during finger scanning),
  - standby < 200mW,
  - sleep mode < 5mW
- ESD contact - 8KV: no permanent damage
- ESD Air discharge:
  - 16KV no permanent damage

Futronic Technology Company Limited.

Rm1016A, Profit Industrial Bldg. 1-15, Kwai Fung St., Kwai Fong, Hong Kong.

Tel:852-24087705 Fax:852-24082572

Web: www.futronic.com.hk email: inquiry@futronic.com.hk