

**ElecVision Inc. EVM620M Linear-type Fingerprint Sensor Solution**

**Description**

Elecvision provides Linear Fingerprint sensor solution for security application in PAD, USB Memory Stick, Remote Control, Note Book and Mobile Phone. It is no fingerprint remaining after detection due to the high-precision fingerprint sensor that uses the sweep method. Elecvision solution allows fingerprints to be read below the surface of the skin, thereby eliminating any acquisition or recognition failure relating to contamination such as dirt, grim, dry skin or excessive moisture. The superior design of the system allows the solution providing high reliability and most competitive price.

**Specification**

Sensor	Elecvision ARAMIS EVS060A CMOS image sensor
Pixel pitch	50um x 50um
Processor	8051
Interface	
Operating Voltage	2.8 ~ 5 V
Estimated Power Consumption	3.3V / 20Ma / 66mw
Sensor Package	CSP

**Key Features**

<ul style="list-style-type: none"> <li>• ESD : 15KV</li> <li>• Resolution : 500DPI</li> <li>• Sweep speed : 20CM/Sec</li> <li>• Sweep Rate : 10M times</li> <li>• Gray scale : 256 gray</li> <li>• Fingerprint image area : 1.5 x 12.8 m/m</li> <li>• Exposure time : 0.52 ms</li> <li>• Light source : 500 Lux</li> <li>• Fingerprint detection method : Optical sensing</li> </ul>	<ul style="list-style-type: none"> <li>• Image Frame Rate : 1000 FPS</li> <li>• Fingerprint Authentication time : under 1 Sec ( Finger depart from sensor surface )</li> <li>• Fingerprint authentication precision :             <ul style="list-style-type: none"> <li>- FRR under 0.1% ( False Rejection Rate )</li> <li>- FAR under 0.1% ( False Acceptance Rate )</li> </ul> </li> <li>• Number of the registered standard fingerprints : Two (up to four )</li> <li>• Inclined angle : <math>\pm 45^\circ</math></li> </ul>
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**Block Diagram**

