



## Supported Fingerprint Devices

BIO-key International provides support for most major biometric finger readers. This device interoperability is critical to managing changing environments, meeting different user needs, and providing the most suitable options for end users. The ability to avoid “vendor lock” is an important consideration when choosing hardware, since reader technology is constantly improving and prices continue to fall. Since new readers are being introduced frequently, the list below is continuously being updated. If you have any questions regarding any of the available devices, please, contact your BIO-key representative.

### Considerations:

- Operating environment (weather, frequency of use, etc.)
- Exposure to Light
- Image Quality
- Form factor requirements
- Speed Capture Rate Requirements









### Sensor Types and Reliability Expectations:

Generally, *capacitive sensors* (AKA: CMOS) are an inexpensive solution for indoor, low volume usage. Often, capacitive sensors are deployed in office environments. As a rule, they capture images at a higher frame rate, and with less latency, resulting in a better end-user experience.




On the other hand, high traffic environments typically warrant use of the more robust *optical sensors*. The resilient glass or plastic surface used on *optical sensors* withstands harsh environmental abuse that is typically encountered in kiosks, and physical access applications.

*Swipe sensors* utilize a silicon strip to capture multiple images of the finger as it passes over the sensor. These ‘line’ images are assembled to create a single two dimensional image of the finger. As a rule of thumb, these sensors require more user training and they are frequently installed in ‘personal’ use systems such as laptops.

### Sensor Manufacturers

Sensor Manufacturers	Type/ Form Factor	Sensor Model(s)	Notes
 AuthenTec, Inc. <small>Personal Security for the Real World</small>	Capacitive	FingerLoc AF-S2, EntrePad AES4000	250 – 500 dpi
 UPEK	Capacitive	TCS1, TCS2, TCS3	Formerly ST Micro, OEM, 508 dpi
 FUJITSU	Capacitive	MBF200	500 dpi
 TACOMA TECHNOLOGY INC.	Optical and Capacitive	STM01A1	
 Testech	Tactile	BIO-i	500dpi
 CROSS MATCH Technologies Inc.	Optical	Verifier 300 USB	500 dpi
 Security First Corp. <small>Securing Your Digital World!</small>	Tactile	Ethentica USB-2500 , MS-3000	
 FIDELICA	Pressure Sensor (Tactile variation)	FIS-3001	508 dpi

## Reader Device Manufacturers

Reader Manufacturers	Sensor Type	Model(s)	Form Factor
	UPEK TCS1, TCS2, TCS3	TCRU1C, TCRU2C, TCRA, TCRB, TCRZ	USB
	Fujitsu MBF200	FPIC-200	USB
	Cross Match Optical	Verifier 300 USB	USB
	AuthenTec (AES4000)	VK1101, VP-2202, VP3303, VP2201, VP2101, CP2001, VK1201	USB
	Fujitsu MBF200	FUS-200, FIS-200,	USB or PCMCIA
	AuthenTec	FCS-100	<b>USB</b>
	AuthenTec	DefCon PA460U and PA46D	<b>USB or PCMCIA</b>
	AuthenTec	KSI-X	<b>USB Keyboard</b>
	AuthenTec	G83-14200, G83-14300	<b>USB Keyboard</b>
<b>RiTech</b>	UPEK TCS3	iCool bioslimdisk	<b>USB Memory Stick</b>
<b>Animation Technologies Inc.</b>	AuthenTec	G81-12000, G81-12100	<b>USB</b>
	UPEK TCS1	Transport Series	Embedded Laptop
	Secugen	FDU01/ FDU02	USB or USB Mouse
	Shanghai Fingertech Information Co. Ltd.	BIOCA-120	<b>USB (400DPI)</b>

\* Supported reader information is subject to change. Contact your BIO-key representative for additions and updates.