SecuGen Hamster™ III
SecuGen Keyboard™ III
SecuGen OptiMouse™ III

SecuGen's premium fingerprint biometric peripherals are made with the industry's most rugged and advanced optical sensor using patented SEIR™ fingerprint biometric technology.

SecuGen Hamster III

A compact, ergonomic and versatile fingerprint reader.

Features

- High-resolution USB fingerprint sensor, FDU02™
- Scratchproof, hardened fingerprint contact area
- Removable, weighted stand
- Maintenance-free, long life

SecuGen Keyboard III

A standard keyboard with an integrated fingerprint reader.

Features

- High-resolution USB fingerprint sensor, FDU02™
- Scratchproof, hardened fingerprint contact area
- Standard 104-key layout
- Maintenance-free, long life

SecuGen OptiMouse III

An optical mouse with an integrated fingerprint reader.

Features

- High-resolution USB fingerprint sensor, FDU02™
- Scratchproof, hardened fingerprint contact area
- Optical tracking/pointer
- Three programmable buttons, including scroll wheel
- Maintenance-free, long life

SecuGen Sensors are Known for their Quality

Durable

SecuGen fingerprint sensors feature a virtually indestructible sensor prism. From the sensor surface to the internal lens and electronic components, SecuGen's fingerprint sensors are designed to be strong and dependable to deliver consistent performance for a wide range of applications.

Accurate

SecuGen sensors produce very high accuracy rates. An innovative optic design yields distortion-free images from which data points are used for matching. High quality images mean greater precision, less false rejection and acceptance, and better overall performance.

Maintenance-free

Unlike semiconductor-based sensors and other optical sensors in the market, SecuGen's sensor is made with a hard quartz-like material that resists scratches, shock, corrosion and other stress. There are no coatings to maintain or disturb. Additionally, the optic parts are tightly assembled so that if the sensors are ever dropped, there is no need for re-calibration.

Cost-effective

SecuGen sensors are built to last, thus eliminating costly replacements. Additionally, SecuGen develops and manufactures its own fingerprint sensors and guarantees the best quality in the industry.

Benefits of Using SecuGen Peripherals

SecuGen peripherals are easy to use and install. Backed by the industry's best quality guarantee, years of field use and proven reliability under extreme conditions, SecuGen peripherals provide consistent performance and security for a growing number of software applications supported by a wide range of operating systems and computing environments.

When used for biometric authentication as part of an overall security program, SecuGen peripherals can help reduce the hassles of password overload, decrease the risks of security breaches, improve accountability and add true non-repudiation, all while making it more convenient and intuitive for almost any user.

Use SecuGen® fingerprint peripherals with your choice of compatible software for biometric authentication, identification and verification functions, and let your fingerprints act like digital passwords that cannot be lost, forgotten or stolen.

Typical Applications

- Personal computer, workstation, network, enterprise, or internet security
- E-commerce and electronic transactions
- Bank and financial systems
- Medical information systems
- Labor and attendance tracking
- Any password-based application ...

Visit our website for a list of compatible software at www.secugen.com/products.

Specifications

	SecuGen Hamster III	SecuGen Keyboard III	SecuGen OptiMouse III
General			
Dimensions (W x L x H)	27 x 40 x 73 mm	522 x 195 x 53 mm	63 x 120 x 39 mm
Weight	100 g (no stand)	1 kg	170 g
		Below, same for all peripherals	
Operating Temperature		0° to 40° C	
Operating Humidity (RH)		< 90%, noncondensing	
Cable Length		1800 mm	
Certification		FCC, CE	
Optical			
Sensor		SecuGen FDU02	
Image Resolution		500 DPI ± 0.2 %	
Image Size (pixels)		260 x 300	
Effective Sensing Area		13 mm x 15 mm	
Image Grayscale		256 shades (8-bit gray level)	
Distortion (nonlinear)		< 0.1 %	
Sensing Prism Hardness		750 Hk (6.8 Mohs)	
Light Source		Red LED	
Lifetime (typical)		60,000 Hours	
Ambient Light Condition		Up to 5,000 Lux	
Electrical			
Power Supply		via USB connection	
Operating Voltage		5 V ± 5 %	
Power Consumption (max)		400 mW	
Current Consumption (standby)		0.45 mA	
Current Consumption (operating)		80 mA (150 mA keyboard)	
ESD Tolerance		> ± 15 kV	
Communication			
Interface		USB 1.1	
Data Transfer Mode		Bulk mode	
Image Capture Speed		2.38 frames/second	
Image Transfer Speed		308 kbps	
Other			
Operating Systems	Designed for Windows XP and Windows Server 2003		
Supported	Windows 2000/Me/98 SE, Windows CE, Novell, and MS-DOS Windows CE.NET and Linux (Hamster only)		
Warranty	One year limited		
Drivers included on CD	Also available at www.secugen.com/download		
Available Development Tools	SecuGen SDK Collection		
Software Compatibility	Compatible with all software made for FDU02™, FDU01™, and EyeD® peripherals. See www.secugen.com/products for listing of compatible software.		

What's Inside

At the heart of every SecuGen USB fingerprint peripheral is the FDU02 sensor, made with SecuGen's ultra-precise, high-resolution OPP03™ optic module.

About SecuGen's Next-Generation FDU02 Sensor

- Works well with dry, wet, aged, scarred or problematic fingerprints
- Highly durable and rugged - proven to resist electrostatic shock, impact, drops, scratches, extreme temperatures, humidity, electrostatic discharge, and contaminants (sweat, dirt, oil, etc.)
- Ultra-precise, FBI-compliant 500 DPI resolution
- Powerful minutiae extraction and verification algorithms for fast and reliable processing and performance
- Patented Surface Enhanced Irregular Reflection (SEIR) optical technology for clear image quality with high contrast, high signal-to-noise ratio, and practically no distortion
- High Sensor-to-Sensor Consistency for high accuracy when matching templates enrolled with different fingerprint readers
- Solid engineering and superior materials allows for use under extreme conditions
- Checks for and rejects latent fingerprints and 2-D fingerprint images (i.e. photocopies)
- ***Device Recognition™*** *
  Uses a programmable internal serial number to identify and differentiate FDU02 devices
- ***Multi-Device Connectivity™*** *
  Allows multiple FDU02 devices to be connected to one computer at the same time

* These features are dependent on the kind of software application used.

Designed for Microsoft® Windows® Server 2003

Designed for Microsoft® Windows® XP

SecuGen Biometric Solutions

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Open The World With Your Fingertip!®

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