

# SecuGen Hamster™ III

## SecuGen OptiMouse™ III



### Premium Optical Fingerprint Peripherals

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



SecuGen Hamster III shown without stand

### SecuGen Hamster III

SecuGen Hamster™ III is the next generation model of SecuGen's popular and versatile fingerprint reader product line. Packaged in a comfortable, ergonomic design, SecuGen Hamster III features the industry's most rugged and advanced optical sensor using patented SEIR fingerprint biometric technology.

#### Features

- SecuGen fingerprint sensor, FDU02™
- Ergonomic finger guide
- Removable, weighted stand
- Small footprint (without stand), occupies little desktop space
- Maintenance-free, long life
- 1 year warranty
- USB connection
- Driver CD included



### SecuGen OptiMouse III

SecuGen OptiMouse™ III is the next generation model of SecuGen's award-winning fingerprint mouse product line. An innovative optical tracking mouse that can operate on almost any surface with exceptional response, SecuGen OptiMouse III features the industry's most rugged and advanced optical sensor using patented SEIR fingerprint biometric technology.

#### Features

- SecuGen fingerprint sensor, FDU02™
- Optical tracking/pointer
- Three programmable buttons, including scroll wheel
- Compact and symmetric body
- Maintenance-free, long life
- 1 year warranty
- USB connection
- Driver CD included



### 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 ...

### Benefits of Using SecuGen Peripherals

SecuGen peripherals are easy to use and install. Backed by the industry's longest warranty, 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.

### What's Inside

At the heart of SecuGen Hamster III and SecuGen OptiMouse III is the FDU02 sensor, featuring SecuGen's next-generation OPPO3™ optic module pictured below.



### 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 competitive optical sensors in the market, SecuGen's sensor is made with a hard quartz-like material that resists scratches, stress and corrosion. 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 top-level quality with the longest warranty in the industry.

Durable, accurate, versatile and affordable. SecuGen® peripherals are compatible with the widest array of innovative biometric software applications.

## About SecuGen's Next Generation of Sensors, FDU02™

- Reduced error rates for dry, wet, aged, scarred or problematic fingerprints
- Higher signal-to-noise ratio
- Ultra-precise resolution
- Greater Sensor-to-Sensor Consistency
- Proven resistance to:
  - Shock, impact, scratches, extreme temperatures, humidity, electrostatic discharge, and contaminants (sweat, dirt, oil, etc.)
- Patented Surface Enhanced Irregular Reflection (SEIR) optical technology for clear image quality with higher contrast, higher signal-to-noise ratio and practically no distortion
- Powerful minutiae extraction and verification algorithms for fast and reliable processing and performance
- High durability and ruggedness - proven to resist electrostatic shock, impact, drops, and scratches
- Solid engineering and superior materials allows for use under extreme conditions
- False print checks - 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.

## Software Compatibility

SecuGen Hamster III and OptiMouse III use the advanced FDU02 core fingerprint sensor, which is compatible with all software previously made for earlier models of SecuGen USB devices, such as FDU01™-based devices and EyeD™ peripherals. For a listing of compatible software, visit our website at [www.secugen.com/products](http://www.secugen.com/products).

## Drivers

Device drivers are provided in the CD that is shipped with each product. You may also obtain the latest drivers available for download from our website at [www.secugen.com/download](http://www.secugen.com/download).

## SecuGen Hamster III

## SecuGen OptiMouse III

### General

Dimensions (W x L x H)	1.1 x 1.6 x 2.9 in (27 x 40 x 73 mm)	2.5 x 4.7 x 1.5 in (63 x 120 x 39 mm)
Weight	3.5 oz. (100 g) without stand	6 oz. (170 g)
Operating Temperature	32° to 104° F (0° to 40° C)	
Operating Humidity	< 90% RH, non-condensing	
Cable Length	6 ft (1800 mm)	
Certification	FCC	

### Optical

Sensor	SecuGen FDU02
Image Resolution	500 DPI ± 0.2 %
Image Size (pixels)	260 x 300
Effective Sensing Area	0.5" x 0.6" (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
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 Supported	Designed for Windows XP Designed for Windows Server 2003 Windows 2000/Me/98 SE Windows CE, Windows CE.NET (Hamster only) Linux (Hamster only)
Warranty	One year
Available Development Tools	SDK Collection, including: FDx SDK (low-level APIs) SecuBSP SDK (high-level APIs) SecuSearch SDK (1:N matching) SecuGen BioAPI BSP module (Compliant with BioAPI Specification 1.1)



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