

SecuGen USB fingerprint readers are made with the industry's most rugged and advanced optical sensors using patented SEIR™ technology to give you the highest quality in fingerprint biometrics

SecuGen Hamster™ Plus

An ultra-fast, high-performance and versatile fingerprint reader with Auto-On™ & Smart Capture™

Features

- High-quality, rugged, maintenance-free optical fingerprint sensor with ultra-precise 500 DPI resolution
- Auto-On automatically turns on sensor when it detects a finger
- Smart Capture ensures quality fingerprint scanning of difficult fingers
- Hardened fingerprint contact area that's resistant to scratches, impact, corrosion and electrostatic discharge (ESD)
- Compact and ergonomically designed to work with any finger or thumb
- Integrated finger guide
- Removable, weighted stand
- USB connection



What is Smart Capture™?

Smart Capture automatically adjusts the brightness of the sensor, allowing it to capture high quality fingerprints from a greater spectrum of traditionally difficult fingers that are dry, moist, aged or scarred.*

What is Auto-On™?

Auto-On allows the sensor to automatically detect the presence of a finger on the reader. When enabled, you can quickly and easily identify yourself, making fingerprint biometrics even more convenient to use.*

Benefits of Using SecuGen USB Fingerprint Readers

SecuGen USB fingerprint readers are easy to install and use with software applications designed with fingerprint identification or verification functions that let your fingerprints act like digital passwords that cannot be lost, forgotten or stolen. SecuGen readers provide consistent performance and security for a growing number of applications and are supported

by a wide range of operating systems and computing environments.

SecuGen readers are backed by the industry's best quality guarantee and years of field use and proven performance under extreme conditions. This helps avoid the cost and inconvenience of field replacements of damaged units made by other sensor manufacturers.

When used for biometric authentication as part of an overall security program, SecuGen readers 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.

SecuGen Sensors are Known for their High Quality

Durable

SecuGen fingerprint sensors are extremely rugged and feature a virtually indestructible sensor prism. From the sensor surface to the internal lens and electronic components, SecuGen sensors are designed to be strong and dependable to deliver consistent performance in indoor, outdoor and other harsh environments.

Accurate

SecuGen sensors are very accurate thanks to a patented optic design that produces distortion-free images from which data points are extracted for matching. Higher 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 sensors are made with a hard quartz-like material that needs no coatings but resists scratches, ESD, corrosion and other stresses. The optic parts are tightly assembled so that if the sensors are ever dropped, there is no need for recalibration.

Cost-effective

SecuGen designs, develops and manufactures its own fingerprint sensors that are built to last. SecuGen guarantees the best product quality in the industry, which translates into savings by eliminating costly replacements and losses from system downtime.

Typical Applications

SecuGen readers work with a large variety of software products available through 3rd party developers for applications such as:

- PC, 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 3rd party software and our SDK Collection at www.secugen.com.

SecuGen Hamster™ Plus

General

Dimensions (W x L x H)	27 x 40 x 73 mm (without stand)
Weight	100 g (without stand)
Operating Temperature	0° to 40° C
Operating Humidity	< 90% RH, noncondensing
Cable Length	1500 mm
Certification / Compliance	FCC, CE, RoHS

Optical

Sensor	SDU03M™
Image Resolution	500 DPI ± 0.2 %
Image Size	260 x 300 pixels
Platen Size	16.1 mm x 18.2 mm
Effective Sensing Area	12.7 mm x 14.9 mm
Image Grayscale	256 shades (8-bit gray level)
Image Type	Non-lossy
Distortion (nonlinear)	< 0.1 %
Sensing Prism Hardness	750 Hk (6.8 Mohs)
Light Source	Red LED
Lifetime (typical)	60,000 hours
Ambient Light Tolerance	5,000 Lux

Electrical

Power Supply	Via USB connection
Operating Voltage	5 V ± 5 %
Maximum Current	120 mA
ESD Tolerance	12 kV

Communication

Interface	USB 1.1, 2.0
Image Capture Speed (continuous)	0.14 second (0.20 with Smart Capture)
Image Capture Speed (snapshot)	0.20 second (0.39 with Smart Capture)

Other

Operating Systems Supported	Windows 7, Vista, XP, 2000, Me, 98 SE Windows Server 2008 Release 2, Server 2003
Warranty	Three year limited
Drivers included on CD	Also available at www.secugen.com/download

What's Inside

At the heart of the Hamster Plus is SecuGen's next-generation **SDU03M™** USB fingerprint sensor, featuring:



- Smart Capture™ to capture high quality fingerprints from dry, moist, aged, scarred and difficult-to-scan fingers
- High durability and ruggedness: proven resistance to electrostatic shock, impact, drops, scratches, extreme temperatures, humidity, electrostatic discharge, and contaminants (sweat, dirt, oil, etc.)
- Ultra-precise, FBI-compliant 500 DPI resolution
- Patented Surface Enhanced Irregular Reflection (SEIR™) optical technology for clear, accurate 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 for use under challenging conditions
- Ease of integration into many types of applications using SecuGen's Software Developer Kits
- Rejection of latent fingerprints and 2-D fingerprint images (i.e. photocopies) ¹
- Encryption of fingerprint templates so they cannot be used to reconstruct fingerprint images ¹
- **Multi-Device Connectivity™**
Allows multiple SDU03M devices to be connected to one computer at the same time ²
- **Device Recognition™**
Uses a programmable internal serial number to identify and differentiate SDU03M devices ²

¹ Feature dependent upon software application used

² Option available with SecuGen SDK

* Auto-On and Smart Capture are built into the sensor but need to be enabled by the software application that calls for the fingerprint scan.



SecuGen Corporation
2356 Walsh Avenue, Santa Clara, CA 95051 USA
408.727.7787 - www.secugen.com - info@secugen.com

Open The World With Your Fingertip!®