

# Hamster™ Pro 20

## Hamster™ Pro

# SecuGen

SecuGen Hamsters are the industry's most accurate, rugged, and affordable USB fingerprint readers. These high-performance, versatile readers feature advanced optical sensors engineered with patented technology to give you the highest quality in fingerprint biometrics.

**Accurate   Durable   Maintenance-Free   Cost-Effective**

### Features

- Accurate, patented optical USB fingerprint sensor with 500 DPI resolution
- Auto-On™ automatic finger detection and Smart Capture™ for quality scanning of dry, moist, aged, scarred, and difficult-to-scan fingers
- Scratch, impact, corrosion, and electrostatic shock resistant glass platen
- Ultra compact, low profile design
- Fake Finger Rejection for enhanced security (Hamster Pro 20 only)\*
- IP65 certified for dust and water-resistance (Hamster Pro 20 only)
- Supports SecuGen, MINEX Certified, and third party algorithms
- Supports international and U.S. biometric standards



**Hamster Pro**



**Hamster Pro 20**

**FBI Certified**

**STQC Certified**

### Benefits

- Improved security with convenience and reduced password reset requests because fingerprints act like digital passwords that cannot be lost, forgotten or stolen
- Improved accountability by allowing users to quickly and easily prove their identities with their fingerprints
- Reliable and consistent performance for an ever-increasing number of applications designed for mobile, desktop, network, enterprise, and Internet environments

## The Highest Quality in Fingerprint Biometrics at Affordable Prices

### Accurate

SecuGen sensors are very accurate thanks to an ultra-compact, patented optic design that produces high quality images for greater precision, less false rejections/false acceptances, and better overall performance compared to competing fingerprint sensors.

### Durable

With a virtually indestructible sensor prism, the SecuGen sensor is extremely rugged. SecuGen sensors are designed to be strong for dependable and consistent scanning even outdoors and under harsh or high traffic environments.

### Maintenance-free

Unlike semiconductor-based sensors and other optical sensors, SecuGen sensors are made with hardened glass that needs no coatings or special protection. SecuGen sensors resist scratches, ESD, corrosion, and other stresses and can be easily wiped clean without fear of damage.

### Cost-effective

SecuGen designs, develops, and manufactures its own fingerprint sensors that are built to last and deliver solid performance for years, making SecuGen sensors the most cost effective choice.

### Typical Applications

- Mobile, PC, or network security
- Bank and financial systems
- Medical information systems
- Labor and attendance tracking
- Any password-based application

### Free SDKs

With a variety of free Software Development Kits to choose from, SecuGen readers are easy to integrate into almost any kind of application.

Request a free SDK at [www.secugen.com](http://www.secugen.com) today!

\* Fake Finger Rejection currently supported on Windows only; support for Android and Linux coming soon.

## Specifications

<b>Product Name</b>	Hamster Pro	Hamster Pro 20
<b>Model</b>	HUPx	HU20
<b>Fingerprint Sensor</b>	SecuGen UPx	SecuGen U20
<b>Image Resolution</b>	500 DPI	500 DPI
<b>Image Size</b>	260 x 300 pixels	300 x 400 pixels
<b>Platen Size</b>	18.2 mm x 22.9 mm	18.2 mm x 22.9 mm
<b>Effective Sensing Area</b>	13.2 mm x 15.2 mm	15.2 mm x 20.3 mm
<b>Image Gray Scale</b>	256 levels (8-bit)	256 levels (8-bit)
<b>Light Source / Lifetime</b>	LED / 60,000 hours	LED / 60,000 hours
<b>Smart Capture Speed</b>	0.2 ~ 0.5 seconds	0.2 ~ 0.5 seconds
<b>Biometric Standards</b>	INCITS 378, ISO/IEC 19794-2, 9794-4	FIPS 201, FBI PIV & Mobile ID FAP 20, INCITS 378, ISO/IEC 19794-2, 19794-4
<b>Dimensions</b>	53.9 x 58.5 x 31.6 mm	53.9 x 58.5 x 31.6 mm
<b>Weight</b>	98 g	98 g
<b>Cable Length</b>	1500 mm	1500 mm
<b>Operating Temperature</b>	-20° ~ 65°C	-20° ~ 65°C
<b>Operating Humidity</b>	90% noncondensing, max	90% noncondensing, max
<b>USB Interface</b>	1.1 Full, 2.0 Hi-Speed	1.1 Full, 2.0 Hi-Speed
<b>Supply Voltage</b>	5 V DC (via USB)	5 V DC (via USB)
<b>Max Current</b>	120 mA	150 mA
<b>Dust/Water Resistance</b>		IP65 Certified
<b>Compliance</b>	FCC, CE, KCC, RoHS	FCC, CE, KCC, RoHS, FIPS 201, STQC
<b>Warranty</b>	One year limited	One year limited
<b>Supported OS</b>	Windows 10, 8.1, 8, 7 Windows Server 2012, 2008 R2 Android 3.1+, Java, Linux	Windows 10, 8.1, 8, 7 Windows Server 2012, 2008 R2 Android 3.1+, Java, Linux



### What's Inside a Hamster Pro?

At the heart of all Hamster Pro readers are SecuGen's newest ultra-compact fingerprint sensors with advanced features including:

**Auto-On™** automatically detects the presence of a finger when placed on the reader for quick and easy authentication

**Smart Capture™** captures high quality fingerprints from dry, moist, aged, scarred and difficult-to-scan fingers for greater accuracy and reliability

**High durability and ruggedness** with proven resistance to electrostatic shock, impact, drops, scratches, extreme temperatures, humidity, and contaminants such as sweat, dirt, and oil

**Patented optical technologies for clear, accurate imaging** with high contrast, high signal-to-noise ratio and low distortion

**Reliable performance** even under challenging conditions and tough environments

**Rejection of false fingerprints** such as latent prints and 2-D images

**Fingerprint data protection** with templates that cannot be used to reconstruct fingerprint images

**Greater sensor-to-sensor consistency** for high accuracy when matching fingerprints enrolled with different fingerprint readers at different locations

# SecuGen

*Open the World with Your Fingertip!®*

Founded in 1998, SecuGen is a leading provider of advanced optical fingerprint recognition technology for physical and information security. Our high quality biometric sensors have been used all around the world in diverse areas such as government, finance, health care, law enforcement, education, retail, manufacturing, and transportation.

[www.secugen.com](http://www.secugen.com)