

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.

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

Specifications

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