

# Hamster™ Pro Duo SC/PIV Hamster™ Pro Duo CL

# SecuGen

SecuGen Hamster Pro Duo readers are suitable for any smart card application where dual factor authentication is needed for higher security without sacrificing convenience. It features the industry's most accurate, rugged, and affordable USB fingerprint reader to give you what the SecuGen brand is known for, 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
- Fake Finger Rejection for enhanced security\*
- Contact smart card reader (SC/PIV model)
- Contactless smart card reader with built-in NFC antenna (CL model)
- Convenient, ergonomic design
- Fingerprint sensor FBI Certified for FIPS 201 (PIV) and Mobile ID FAP 20

## 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



**Hamster Pro  
Duo SC/PIV**



**Hamster Pro  
Duo CL**

## 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.

### 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.

### Typical Applications

- Physical Access Control
- Personal Identity Verification (PIV)
- National ID Cards
- Any smart card / fingerprint application

### 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.

### 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.

### 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 Duo SC/PIV	Hamster Pro Duo CL
<b>Model</b>	XU20ASCI	XU20CL
<b>Fingerprint Sensor</b>	U20-A	U20
<b>Image Resolution</b>	500 DPI	500 DPI
<b>Image Size</b>	300 x 400 pixels	300 x 400 pixels
<b>Platen Size</b>	18.2 mm x 23.1 mm	18.2 mm x 22.8 mm
<b>Effective Sensing Area</b>	15.24 mm x 20.32 mm	15.24 mm x 20.32 mm
<b>Image Gray Scale</b>	256 levels (8-bit)	256 levels (8-bit)
<b>Light Source</b>	LED	LED
<b>Smart Capture Speed</b>	0.2 ~ 0.5 seconds	0.2 ~ 0.5 seconds
<b>Features</b> (when used with SecuGen Pro SDKs)	Auto-On, Smart Capture, 360 Degree Fingerprint Rotation	Auto-On, Smart Capture, 360 Degree Fingerprint Rotation
<b>Biometric Standards/Specs</b>	INCITS 378, ISO/IEC 19794-2, 19794-4, FIPS 201, FBI PIV & Mobile ID FAP 20, NIST MINEX, WSQ	INCITS 378, ISO/IEC 19794-2, 19794-4
<b>Dimensions</b>	80.0 x 100.0 x 45.5 mm	77.5 x 160.0 x 37.7 mm
<b>Weight</b>	181 g	250 g
<b>Operating Temperature</b>	0° ~ 55° C	0° ~ 50° C
<b>Operating Humidity</b>	10 ~ 90%	10 ~ 90%
<b>USB Interface</b>	USB 2.0 Hi-Speed (fingerprint reader) USB 2.0 Full-Speed (card reader)	USB 2.0 Hi-Speed (fingerprint reader) USB 2.0 Full-Speed (card reader)
<b>Supply Voltage</b>	5 V DC (via USB)	5 V DC (via USB)
<b>Max Current</b>	220 mA	450 mA
<b>Compliance</b>	FCC, CE, KCC, RoHS, Microsoft WHQL	FCC, CE, KCC, RoHS, Microsoft WHQL
<b>Warranty</b>	One year limited	One year limited
<b>Supported OS</b>	Windows 11 / 10 / 8.1 / 8 / 7 Windows Server 2016 / 2012 / 2008 R2 Android 3.1+, Linux	Windows 11 / 10 / 8.1 / 8 / 7 Windows Server 2016 / 2012 / 2008 R2 Android 3.1+, Linux
<b>Card Reader</b>	Identiv CLOUD 2100R contact reader	ACR1251U1-A1 contactless reader
<b>Specifications</b>	Standards: ISO/IEC 7816, EMV, and PC/SC Protocols: T=0 and T=1 Cards: Class A, Class B, Class C CCID compliant Interface speed: 12 Mbps Max clock frequency: 4.8Mhz Max baud rate: 600Kbps @FI/DI-97 Status LED Remote Wake-up for card insertion/ removal	Compliance/Standards: ISO 18092, 14443, 7816, PC/ SC, CCID, LASCOM, EN 60950/ IEC 60950 Protocols: ISO 14443 T=CL for ISO 14443-4 compliant cards and T=CL Emulation for MIFARE 1K/4K, ISO 18092, FeliCa and NFC tags Distance: up to 50 mm Frequency: 13.56 MHz Interface speed: up to 420 kbps Interface: ISO 14443 Type A & B, Mifare, FeliCa, NFC (ISO/IEC 18092) APIs: PC/SC, CT-API Peripherals: bicolor LED, buzzer, ISO 7816 compliant SAM slot
<b>Features</b>		
<b>Certifications</b>	Short circuit protection on smart card FCC Class B, CE, EMV 2008 Level 1, WHQL, UL 60950, USB IF, UL92, GSA, ANZ, RoHS, ICES-003 Issue 4, VCCI	



### 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)