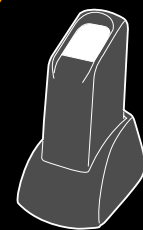# HAMSTER
READER

iPulse 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. This **ultra-fast, high performance and versatile** fingerprint reader comes with Auto-on™ and Smart Capture™.

Dependable Sensors

The Hamster fingerprint sensors feature a virtually indestructible sensor prism. From the sensor surface to the internal lens and electronic components, the sensors are designed to be strong and dependable and to deliver consistent performance in all conditions.

Accurate

Our 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.

Durable

The highly durable and rugged Hamster is proven to resist electrostatic shock, impact, drops, scratches, extreme temperatures, humidity, electrostatic discharge and contaminants such as sweat, dirt and oil, etc. It is built for usage indoors, outdoors and in other harsh environments.

Maintenance-free

Unlike semiconductor-based sensors and other optical sensors in the market, iPulse sensors are made with a hard quartz-like material that needs no coatings but resists scratches, ESD, corrosion and other stress. The optic parts are tightly assembled so that if the sensors are ever dropped, there is no need for recalibration.

FEATURES

High-quality, rugged, maintenance-free optical fingerprint sensor with ultra-precise 500 DPI resolution

Auto-On automatically turns on the sensor when it detects a finger

Hamster Plus Smart Capture ensures quality fingerprint scanning of difficult-to-read fingerprints

Hardened fingerprint contact area that's resistant to scratches, impact, corrosion and electrostatic discharge.
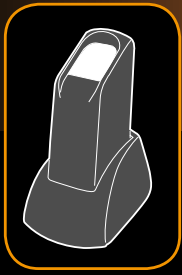
Compact and ergonomically designed to work with any finger or thumb

Integrated finger guide

Removable, weighted stand

USB connection

iPulse
systems

HAMSTER
READER

TECHNICAL SPECIFICATIONS

		Hamster Plus	Hamster IV
Biometric Features			
Auto-On	Automatic power on, at finger detection	•	•
Smart Capture	Automatic brightness adjustment	•	•
Sensor	FDU03FRS	•	
Sensor	FDU04		•
Image Resolution	500 dpi ± 0.2%	•	•
Image Size	260 x 300 pixels	•	
Image Size	258 x 336 pixels (1280 x 1024 pixels, native)		•
Platen Size	16.1 x 18.2 mm	•	•
Image Greyscale	256 shades (8-bit grey level)	•	•
Image Type	Non-lossy	•	•
Light Source	Red LED	•	•
Ambient Light Tolerance	5 000 Lux	•	•
Interfaces			
USB Interface	USB 1.1, 2.0 (high speed)	•	•
General Specifications			
Power Supply	Via USB connection	•	•
Operating Voltage	5V +- 5%	•	•
Maximum Current	99 mA	•	
ESD Tolerance	> + 15kV	•	•
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	•	•
Cable Length	1 600 mm	•	•
Certification / Compliance	FCC, CE, RoHS	•	•
Certification / Compliance	FIPS 201/PIV, FBI image quality		•
Operating Systems Supported	Windows 7, Vista, XP, 2000, Server 2003	•	•
Warranty	1 year (extendable to 3 years)	•	•
Available Development Tools	SecuGen SDK Collection	•	•
	FIPS 201/PIV compliant, MINEX Certified Template Generator & Matcher Algorithms		•

About iPulse

iPulse Systems is a manufacturer of biometric and GSM-based devices and is committed to developing advanced next-generation solutions around these technologies.

iPulse Systems works through a structured, tier-based channel, and sells products throughout sub-Saharan Africa, Brazil and Australia.

iPulse Systems is a privately owned South African company which is a subsidiary of the dynamic Richmark Holdings group of companies.

Contact us

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