Technical specifications & imagery

**Features & Benefits**

- Powered via USB port, no external power supply required
- Fast dual-iris and integrated face capture
- Rapid eye finding and accurate localization
- Built-in industry-leading IrisGuard countermeasures
- Hardware encryption chip to ensure privacy
- Suitable for indoor and outdoor use, tolerates a wide range of light conditions
- Quality speaker suitable for busy locations
- Compact size, built-in mount, easy installation
- Compatible with all IrisGuard’s imagers
- Compatible with IrisGuard’s EyePay® platform and EyeCloud® systems

Precision Engineered

First imager to host the unique IrisGuard auto-focus module, designed to provide unprecedented focusing precision coupled with our patented Fine Focus technology. The EyeTrust™ therefore ensures extremely fast in-focus iris image capture in different environmental conditions and temperatures.

These technologies are essential components for streamlining the onboarding process and ensure that only pristine iris images are captured. This reduces the overall time of onboarding, which can be of pivotal importance in iris recognition applications.

IrisGuard award-winning, highly effective technology with multiple unique patents.

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**Iris Capture Specifications**

- **Image Sensor**: 5 Mega Pixel imager
- **Image Sensor Type**: Monochrome progressive scan
- **Shutter**: ERS (Electronic Rolling Shutter)
- **Resolution Bits**: 8 bit greyscale
- **Lens**: Custom IrisGuard design
- **Focus**: Automatic - focus resolution 0.005mm
- **Image Resolution**: > 16 Lines per mm or 8 line pairs per mm
- **Image Sensitivity (SNR)**: > 40db
- **Frame Rate**: > 50 FPS
- **Pixels Across the Iris**: Nominal 250 pixels across the iris
- **Inter Pupillary Distance**: 49mm to 79mm
- **Illumination**: 700 - 900 nM at -3db (direct and cross)
- **Pupil Control**: White Light Flash (Patented)
- **Countermeasures**: Patented Samba Live Eye Detection (SLED)
- **Capture distance**: Nominal 200mm
- **Capture Time (Dual Eye)**: < 2.0 seconds
- **Usage and Mounting**: Counter mount bracket also available
- **Iris Image**: Windows Compatible

**Face Capture Specifications**

- **Imager Sensor Size**: 1/5" sensor CMOS RGB
- **Imager Format**: Progressive scan
- **Imager Resolution Portrait**: 2Mpixel
- **White Balance**: Automatic
- **Frame rate**: > 5FPS @ VGA quality
- **Lens F-Stop**: F2.8
- **Lens FOV Horizontal**: 68 degrees
- **Imager Sensitivity (SNR)**: > 40db
- **Imager Horizontal Resolution @300mm**: 49db/49db
- **Horizontal Object Size @ 300mm**: 49mm/49mm
- **Inter Pupillary Distance/Pixels @300mm**: 64mm/256pixels
- **Face Capture Range**: 260mm to 350mm
- **Camera Active Indicator**: Green LED status bar
- **Face Image**: Compliant with USB Video Class (UVC).

**Cryptographic Hardware Specifications**

- **Cryptographic Algorithms**: DES/DES, AES 128/192/256bits, RSA up to 4096bits, DSA up to 2048 Bits, ECC up to 384 Bits ISO/IEC 9798-2/FIPS 196 unilateral authentication protocol
- **Main Feature**: FIPS 140-2 identity-based Authentication using password, secure channel protocol (SCCP/SCCP3) OTP - FIPS 198 algorithm
- **File System**: Embedded dynamic FAT12 file system
- **Secure Vault Size**: 8K Bytes
- **Audible Status Indicator**: Alert ready, FIPS 140-2 security level 3, SSL support, PKCS #11 Microsoft MS-CAP
- **NIST certified FIPS 140-1 and FIPS 140-2 cryptographic modules

**General Specifications**

- **Power and Data Interface**: +5Vdc single USB cable
- **USB Standard**: USB 2.0 (480Mbps) high speed
- **User Guidance Voice prompts**: Dynamic multi-lingual 44.1Khz
- **Operator Status Indicator**: Multi-coloured status bar
- **User Status Indicator**: Multi-coloured status bar
- **Operating Temperature**: -10° C ~ 70° C
- **Eye Safety**: Lamp safety standard IEC 62471 – Exempt level
- **ISO Standards**: Iris interchange Standard ISO 19794-6
- **Audio**: 48K/14.1KHz sampling rate for playback
- **Compliant with USB audio Class (UAC).