Technical specifications & imagery

70mm

40mm

145mm
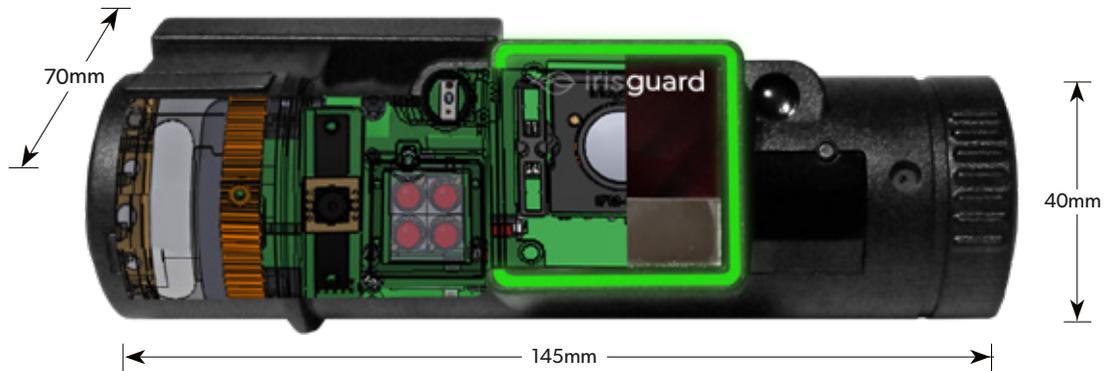
Iris Capture Specifications

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
Imager 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)
	Contact lens detection
	Off-axis detection
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	> 15FPS @ VGA quality
Lens F-Stop	F2.8
Lens FOV Horizontal	68 degrees
Imager Sensitivity (SNR)	> 49db
Image Horizontal Resolution @300mm	~4 pixels/mm
Horizontal Object Size @ 300mm	~404mm
Inter Pupillary Distance/Pixels @300mm	64mm/256pixels
Face Capture Range	260mm to 350mm (Nominal 300mm)
Camera Active Indicator	Green LED status bar
Face Image	Compliant with USB Video Class (UVC).

Cryptographic Hardware Specifications

Cryptographic Algorithms	DES/3DES, AES 128/192/256bits, RSA up to 4096Bits, DSA up to 2048 Bits, ECC up to 384 Bits ISO/IEC 9798-2/FIPS196 unilateral authencation protocol
Main Feature	FIPS 140-2 identity-based Authentication using password, secure channel protocol (SCP02/SCP03) OTP - FIPS 198 algorithm with SHA1 digest
File System	Embedded dynamic FAT12 file system
Secure Vault Size	8K Bytes
Audible Status Indicator	EAL4+ ready, FIPS 140-2 security level 3, SSL support, PKCS #11 Microsoft MS-CAPI 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
Approvals	CE and FC
Eye Safety	Lamp safety standard IEC 62471 – Exempt level
ISO Standards	Iris interchange Standard ISO 19794-6
Audio	48K/44.1KHz sampling rate for playback Compliant with USB audio Class (UAC).