

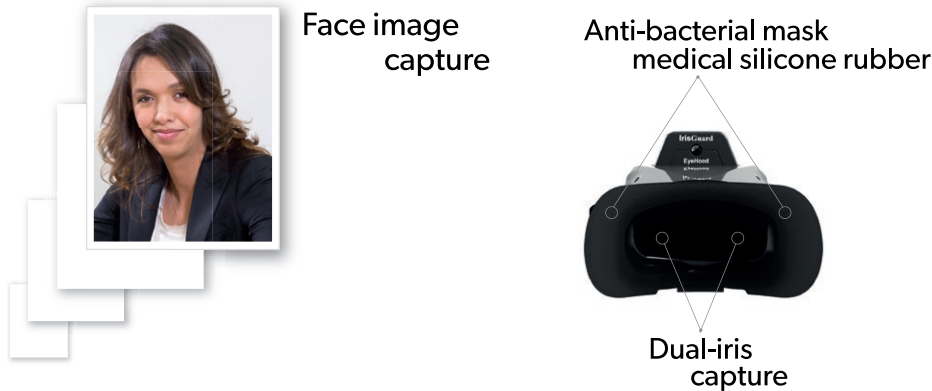


EyeHood®

Tethered, handheld Iris camera, ideal for indoor and outdoor environments.

EyeHood®

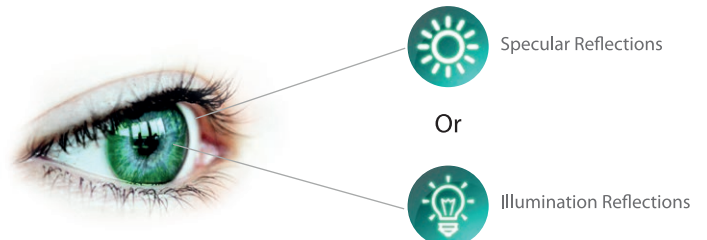
The IrisGuard EyeHood® camera fully shields the users' eyes from the sun and other external lighting conditions at both onboarding and verification stations, thus ensuring the capture of pristine iris images and subsequent matching results. Powered by only a USB port, the EyeHood® is fully integrated into the award-winning EyeCloud® solutions from IrisGuard. The EyeHood® can onboard and recognise (in real-time) any individual, anywhere in the world, in less than three seconds.



Reflections

The EyeHood® has a specially designed irisguard LED configuration that provides both direct and crossed illumination, ensuring that the effect of specular reflections does not impede the iris region of the eye.

The elimination of reflections is vital in the onboarding of pristine, iris Unique Verifiable Identities (UVIs) in real-time.

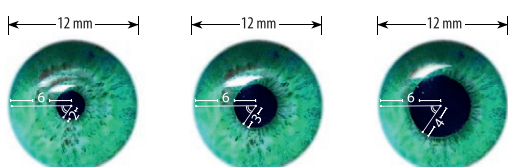
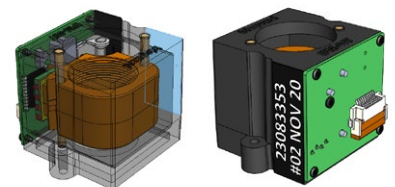


Consistency

The EyeHood® ensures that every iris capture is within an optimal range that has been perfected by IrisGuard. This results in the best and most accurate performance of any imager during the onboarding and subsequent matching processes. Using the EyeHood® for onboarding ensures that payment systems provide accurate performance, even in the harshest of environmental conditions.

Auto focus

For the EyeHood®, IrisGuard designed and developed a new proprietary, real-time, auto-focus imager and a patented fast-focus adjustment software capability to ensure rapid iris recognition. EyeHood® captures in-focus iris images at extremely fast speeds, second-to-none in the industry. These technologies are essential components to streamline the onboarding process and ensures that only pristine iris images are captured. They also reduce the overall time of onboarding, of pivotal importance in holistic iris recognition applications.

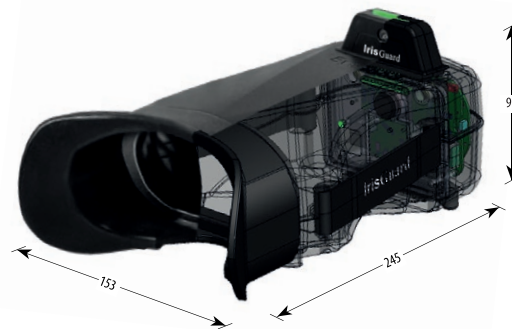


Pupil control

The EyeHood® has a specially designed, patented White Light Flash (WLF) that is unique to the industry. It manages variations in pupil dilation during onboarding and subsequent verification through any of the IrisGuard EyePay® platforms. Highly dilated pupils can result in poor iris matches, detrimental in large-scale iris recognition programmes. EyeHood® eliminates this risk.

EyeHood®

Specifications



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)
Patented Countermeasures	Samba Live Eye Detection (SLED) Contact lens detection Off-axis detection Abnormal dilation detection
Range Measurement	IrisGuard's optical method
Capture Range	Nominal 200mm fixed
Capture Time (Dual Eye)	< 2.0 seconds
Capture Face Shield	TPE Silicone - field replaceable
Field Carry Case	Hard carry case with shoulder and carry handles
Usage and Mounting	USB tethered, handheld IRT device compatible with Microsoft Windows 7, 8, 10 & 11* Standard tripod mount (1/4")

Face Capture Specifications

Imager Sensor Size	1/5" sensor CMOS RGB
Imager Format	Progressive scan
Image Resolution Portrait	2 Mega Pixel imager (xVGA)
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/256 pixels
Face Capture Range	260mm to 350mm (Nominal 300mm)
Camera Active Indicator	Green LED status bar
Face Image	Compliant with USB Video Class (UVC).

General Specifications

Dimensions (Net)	245(L) x 99(H) x 153(W)
Weight (Net)	495 grams
Silicone Rubber Mask	Removable antibacterial TPE facemask (US FDA Title 21 CFR 177.2600 ISO 10993-1, US USP Class VI)
Power and Data Interface	+5VDC single USB cable
USB Standard	USB 2.0 (480Mbps) high speed
Voice prompts	Dynamic multi-lingual 44.1KHz
Operator Status Indicator	Multi-coloured status bar
User Status Indicator	Multi-coloured status bar
Operating Temperature	0°C to +60°C
Storage temperature range	-10°C to +70°C
Approvals	CE FC UK
Eye Safety Approvals	IEC62471 Classification
Interchange Standard Approvals	ISO/IEC 29794-6:2015 & ISO 19794-6:2011
Capture	Simultaneous dual iris capture and built-in digital face camera
Audio	48K/44.1KHz sampling rate for playback Compliant with USB audio device class specification 1.0 Supports AES/EBU, IEC60958, S/PDIF consumer formats for stereo PCM data at S/PDIF output

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/FIPS 196 unilateral authentication 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

*Windows® 7, Windows® 8, Windows® 10 & Windows® 11 are trademarks of Microsoft Corporation in the USA and /or other countries.

Specifications subject to change without notice.

**The ultimate outdoor
registration device**



Key features & benefits

- The ultimate outdoor iris registration device, shields users' eyes from the sun
- Features both iris and face cameras
- Patented White Light Flash (WLF) and Pupil Dilation Control (PDC)
- Automatic focus to ensure pristine images during onboarding process
- USB powered
- Extremely fast, accurate, and easy-to-use system
- State-of-the-art encryption chip to ensure privacy
- Built in sophisticated vulnerability countermeasures, liveness detection and anti-spoofing
- Works with all ages, ethnicities and genders
- ISO compliant iris images – ISO/IEC 19794-6

Patents

US Patent #: 9002053: Glasses Detection Invention

US Patent #: 9008375: Live Eye Detection Invention

US Patent #: 9336438: PSD, Fine Focus and IPD Compensation Invention

UK Patent #: 2495325: PSD, Fine Focus and IPD Compensation Invention



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Certificate No. 7348

IrisGuard is ISO 9001:2015 and ISO 27001:2013 certified