

Iris Scanner

IriUniverse - One



IriUniverse One Iris Scanner is a iris biometrics imaging device that simultaneously and quickly captures highest quality iris images. Easy to use, the system can be reliably positioned by the subject with minimal instructions.

The device captures iris images at high speed and produces images that meet ISO standards. Both the subject and the operator benefit from the IriUniverse One.



Unaffected by Ambient Lighting



Supports Windows, Linux and Android



Dust & Water Resistant

KEY FEATURES

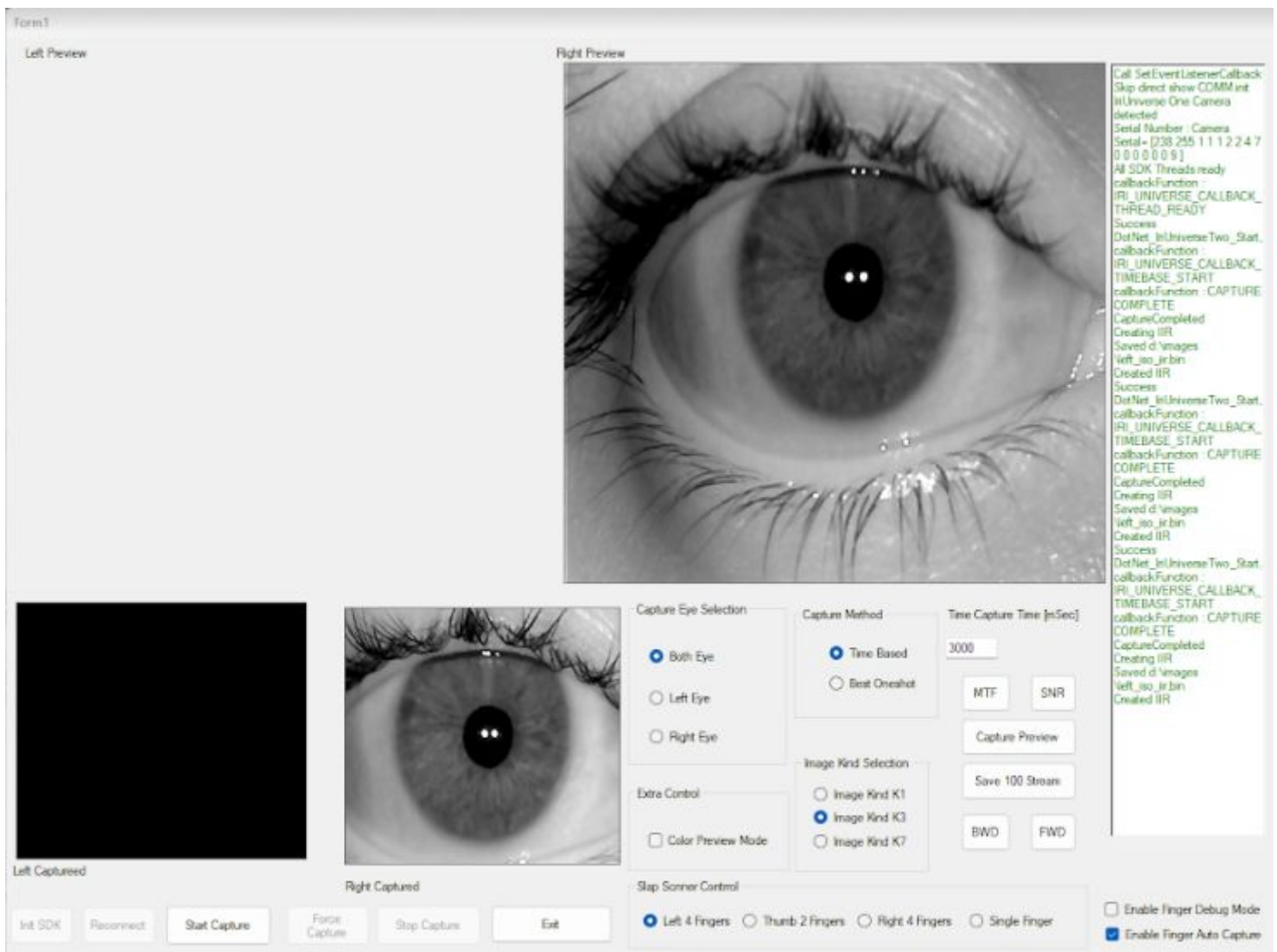
- Intuitive system requires no training
- Superior & High speed Single iris image capture
- Lightweight & Supports liveness detection
- Automatic iris detection and positioning
- Quick Authentication for large scale programs
- Meets UIDAI Compliance and exceeds ISO 19794-6 standard

APPLICATION AREAS

- Resident Authentication
- ID document issuance
- Law enforcement
- Large scale ID Authentication
- e-KYC application

IriUniverse One is a rugged, portable, and simple-to-use Single -iris capture device that can capture single irises with greater accuracy and speed. The innovative Single iris scanner is groove with features that make it suitable for a wide range of biometric identification applications.

Scanned Result



The screenshot displays the IriUniverse One software interface. The main window is titled "Form1" and contains several panels:

- Left Preview:** A dark, mostly black area, likely representing the left eye's capture area.
- Right Preview:** A large, high-resolution grayscale image of a human eye, showing the iris and pupil. Two small white dots are visible on the pupil, indicating the scanner's light source.
- Left Captured:** A small, dark square image, likely the captured left eye.
- Right Captured:** A small, high-resolution grayscale image of the right eye, similar to the Right Preview.
- Control Panels:**
 - Capture Eye Selection:** Radio buttons for "Both Eye", "Left Eye", and "Right Eye". "Both Eye" is selected.
 - Capture Method:** Radio buttons for "Time Based" and "Best OneShot". "Time Based" is selected.
 - Image Kind Selection:** Radio buttons for "Image Kind K1", "Image Kind K3", and "Image Kind K7". "Image Kind K3" is selected.
 - Extra Control:** A checkbox for "Color Preview Mode", which is unchecked.
 - Time Capture Time [mSec]:** A text box containing "3000".
 - Buttons:** "MTF", "SNR", "Capture Preview", "Save 100 Streams", "BWD", and "FWD".
 - Slap Sonner Control:** Radio buttons for "Left 4 Fingers", "Thumb 2 Fingers", "Right 4 Fingers", and "Single Finger". "Left 4 Fingers" is selected.
 - Enable Finger Debug Mode:** An unchecked checkbox.
 - Enable Finger Auto Capture:** A checked checkbox.
- Log Panel (Right):** A text area displaying system logs, including messages like "Call SetEventListenersCallback", "Serial Number: Camera", "Serial: (238 255 111 12 247 0 0 0 0 0)", "All SDK Threads ready", "Success", "DetNet_IriUniverseTwo_Start", "callbackFunction: IRI_UNIVERSE_CALLBACK_TIMEBASE_START", "callbackFunction: CAPTURE COMPLETE", "CaptureCompleted", "Creating IIR", "Saved d:\images", "left_00_00_00", "Created IIR", "Success", "DetNet_IriUniverseTwo_Start", "callbackFunction: IRI_UNIVERSE_CALLBACK_TIMEBASE_START", "callbackFunction: CAPTURE COMPLETE", "CaptureCompleted", "Creating IIR", "Saved d:\images", "left_00_00_00", "Created IIR", "Success", "DetNet_IriUniverseTwo_Start", "callbackFunction: IRI_UNIVERSE_CALLBACK_TIMEBASE_START", "callbackFunction: CAPTURE COMPLETE", "CaptureCompleted", "Creating IIR", "Saved d:\images", "left_00_00_00", "Created IIR".
- Bottom Buttons:** "Init SDK", "Reconnect", "Start Capture", "Force Capture", "Stop Capture", and "Exit".

Technical Specifications

Dimension	<93.3x55.7x27.8mm
Power	Single USB Bus Powered (DC +5V±5%) (Max power consumption = 300mA)
Capture Mode	Auto capture with built-in quality check
Capture Distance (in mm)	>= 150
Spatial Resolution	> 50% at 1 LP/mm.
Pixel Resolution	> 10 pixels/mm
Image Margins	Left & right >= 0.6x iris radius. Top & bottom >=0.2x iris radius
Imaging Wavelength	Approximately 700-900 nm
Pixel Depth	Minimum of 8 bits/pixel
Scan Type	Progressive
Output Image	IMAGE_TYPE_CROPPED_AND_MASKED with JPEG2000 compression; Compatible with the ISO standard for Iris Image Record (IIR) i.e. ISO/IEC: 19794- 6:2011, Section 6.1, 6.4.
Capture time	<5 sec
Operating temperature	0...50 C (IEC 68-2-2)
Storage Temperature	0...50 C (IEC 68-2-2)
Software API	Compliant with UIDAI API Specification
Connectivity	USB 2.0
Operating System Support	Windows 7, 8, 8.1., 10 and above
Usage	Indoor; Outdoor (avoid direct sunlight)

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