

iCAM R100 Series

Iris Recognition Camera Module



- High Speed Iris Capture & Matching in a Compact Package
- On or Off Device Iris Template Matching
- Up to 100K User Record Local 1:N Matching in 1 Second
- National ID Quality Iris Image – Standards Compliant
- Intuitive User Interface with Virtual LED Indication
- 5MP Face Camera White LED Flash
- Comfortable Capture Distance 28–38 cm (11–15 inches)
- Flexible Mounting Options
- USB 3.0 Powered

DUAL IRIS	
Face Camera	Flash LED
USB	1/4 -20 Mount

The iCAM R100 Series is a compact iris recognition device used commonly in OEM applications. This device can be added to a kiosk or built into a complete solution. The camera has the same optical characteristics as the iCAM 7S along with the capability to store up to 100k users on the device's internal memory and the ability to perform 1:N and 1:1 matching.

Previous handheld iris recognition systems required significant cooperation and for a subject to remain completely motionless in order to capture high quality iris images. Iris ID has developed a series of algorithms which provide the capability to capture iris images in any environment.

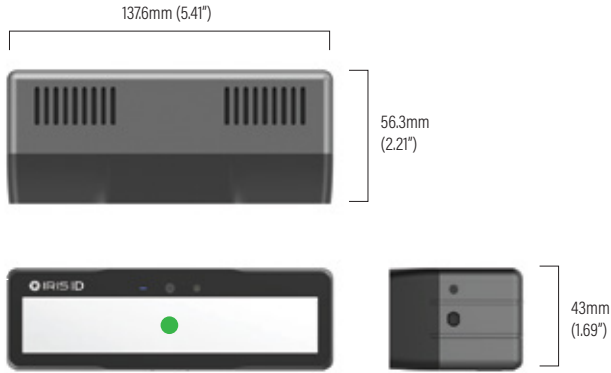
High Speed - Dual Iris Capture

The iCAM R100 performs high-speed dual iris capture and outputs high quality ISO standards compliant images. Both eyes can be simultaneously captured. The R100 provides an unparalleled intuitive user interface, which makes the process easier for the user and operator. The R100 is also equipped with an orientation sensor and left and right iris capture management controls which can be selected prior to or during the process.

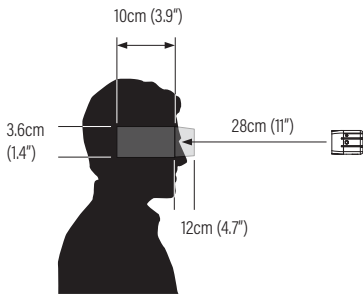
Applications

- Kiosks
- Portable Enrollment Systems
- Time & Attendance Clocks
- Iris Identity Dependent Application
 - Public Safety
 - Entitlement Programs
 - National ID

Mechanical Drawing



Capture Volume



iData iCAM R100 SDK

Iris ID provides an API SDK to enable all functions of the iCAM R100. The development environment and functionality of the SDK for the iCAM R100 module closely mimics those of the widely deployed iData SDK for the IrisAccess iCAM series cameras. Application developers familiar with the other Iris ID development tools will find integration to be very simple.

SDK Versions

Three versions of the SDK are available:

- Image Capture only
- Image Capture & Quality Metrics
- Image Capture, Quality Metrics and Matching

Sample Application Source Code

The sample application source code is delivered as a part of the SDK. Sample SDK code is provided in C++ and C#.

Demonstration Application

A runtime only application is available for customer evaluation which provides the functionality to perform iris image capture and iris template matching.

iCAM R100 (Iris Camera Module)

Dimensions (W x H x D)	137.6mm x 56.3mm x 43mm (5.4" x 2.2" x 1.7")
Weight	240g (0.52lbs)
Power Input	USB Powered (3.0 Port Only) Power Adapter Powered, 5VDC Operational Power: 4.3 watts / Standby Power: 2.3 watts
Iris Camera	1.2MP Auto & Manual Dual Iris Capture with B&W Image Sensor
Iris Capture Range	28cm – 38cm (11" – 15")
Face Image Camera	Face Camera CMOS – 5MP
Flash	High Output Flash for Face Capture
Interface	USB 2.0 (or higher)
Orientation Sensor	Built-in Orientation Sensor
Indication	External: Blue LED - Power Indication, Green / Red / Amber LED - Status Internal: Green LED for Right Eye Positioning Sound (Optional by Application)
Speaker	1.2W
SDK	Windows COM, Android, Embedded LINUX
Operating Temperature	0°C – 50°C (32°F – 122°F)
Storage Temperature	-20°C – 95°C (-4°F – 203°F)
Humidity	0% – 95% Non-condensing
Certifications	CE, FCC, KC, Eye Safety, ISO Standard, KISA

Items Required for Use of This Product

Required Equipment (not provided by Iris ID)

- Windows based PC (Windows XP (32-bit) / Windows 7 (32/64-bit) / Windows 8 (32/64-bit) / Windows 10 (32/64-bit))

Minimum Computer requirements

- Microsoft Windows XP (32-bit), Windows 7 (32-bit), or Windows 7 (64-bit) OS
- 512MB RAM (or higher)
- x86 Processor, 2.0 GHz (or higher)
- 2GB available HDD space or above
- Microsoft .NET Framework ver. 3.5
- Mouse, SVGA Monitor, Keyboard
- Dedicated USB 2.0 port (or higher)
- USB 2.0 port may be used but the iCAM R100 will require external power adapter. USB 3.0 or higher is recommended.

Optional Support for:

- Android devices
- Embedded LINUX devices

NOTE

An available and dedicated USB 2.0 compliant port is needed to properly use the iCAM R100.

IRIS ID AUTHORIZED RESELLER



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