



## **HARDWARE PRODUCT CATALOG CONTENTS**

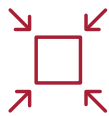
- iCAM D2000 – Iris and Face Capture – Up to 1 Meter with LCD Touch
- iBAR 600 – Iris & Face Capture OEM Module – Up to 1 Meter , LCD
- iCAM 7S –Enterprise Access Control Iris Reader
- iCAM R100 – Compact Iris Recognition Camera Module
- iCAM M300 – Multimodal Iris/Face/Finger Biometric Android Phone
- iCAM T10 – USB Powered Iris Camera – Goggle Type
- iCAM TD100 – Handheld Iris and Face Camera with LCD
- OU7SAK – OEM Iris Recognition Camera – OEM for Kiosk
- IrisTime™ iT100 – Iris & Face Fusion Time Clock & Access Control

# iCAM D2000

## Multi Biometric System



Fast



Compact



Accurate



Frictionless



Global Standards Support



Compact, insightful, and unparalleled quality in biometric performance, Iris ID's iCAM D2000 represents a new class of fused iris and face identification systems. Flexible capture distance ranging from 50cm to 1.0m, iCAM D2000 provides an ergonomically intuitive user experience while delivering high quality iris and face images for enrollment and identification. With focus on usability and dimensions the iCAM D2000 is ideal for identity, travel and access solutions.

The iCAM D2000's unique feature set is the result of twenty plus years of research and development. Leveraging the experience from processing billion of identities and Iris ID's extensive product line, iCAM D2000 is both a natural and innovative next step in technology evolution. The ultimate biometric fused iris and face solution. The iCAM D2000 is truly a platform independent solution.

Iris ID provides a robust REST API to enable all functions of the iCAM D2000 . The development environment and functionality of the REST API is both robust and simple . Application developers will find the REST API's easy to implement.

## Features



### Multimodal (Iris & face) biometric Simultaneous capture

Automatically captures dual iris and face at the same distance.



### User Height accommodation

Automatic capture range from 1.2 M to 2.1 M



### Countermeasure for security

A proven set of anti-spoof measures that continues to set the standard for the industry is included.



### Installation flexibility

The device can be used with a mounting option that can be fixed to a desk.



### Capture range (50 ~ 100cm)

Auto Zoom, Pan and Focus . High quality optics



### Intuitive user guidance

10.1 inch high LCD display provides user feedback.



### Mask detection

The device can detect a user's mask.



### Standards Compliant Hardware and Software

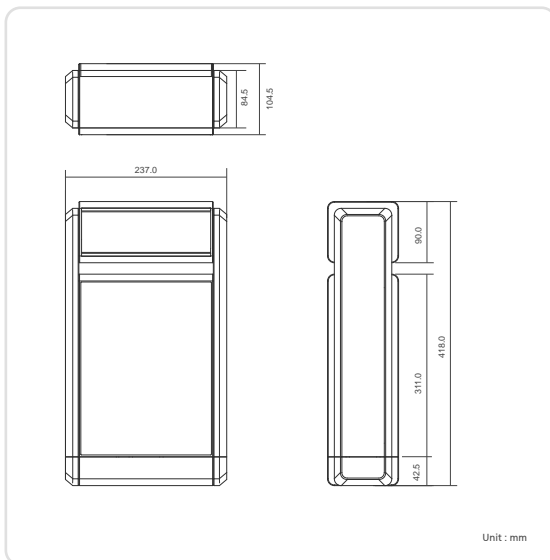
Standards : CE, FCC, Eye Safety, ISO and ICAO, RoHS

## Specifications

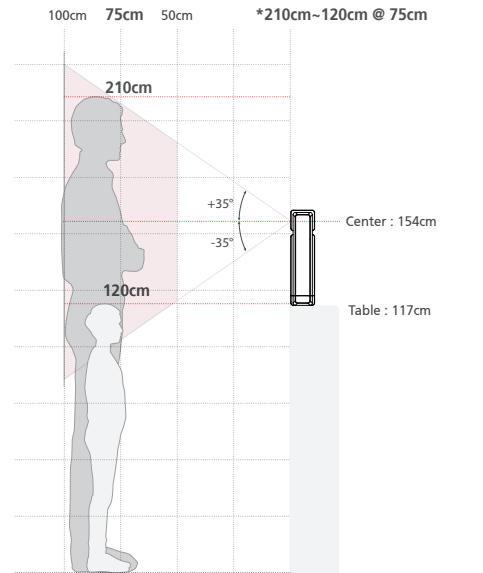
Basic	CPU	Cortex-A53
	Storage	2GB DDR3 (1866 Mbps, 1.35 V), 8GB eMMC
	OS	Linux Kernel Version 4.4
	FPGA	Spartan6 + 64MB Flash Memory
	Power	AC 100 ~ 240V, 90W
Display	Size	10.1 Inch (Diagonal) LCD with capacitive touch screen
	Resolution	1280 x 800
	Interface	MIPI DSI
Audio	Cocdec	Various sample rate (8 ~ 48 KHz)
	Speaker out	YES
Camera	Color Camera	13MP, MIPI CSI-2, SoC, RGB888
	Iris Camera	2.3MP, BW, Global Shutter x 2
	Stereo Camera	Minimum 200pixel/cm in operating capture range
	Capture Time	2.3MP, BW, Global Shutter x 2 Less than 1 seconds for dual iris and face capture

Illumination	IR LED	High Power LED 4EA x 2t
External I/F	Ethernet	Ethernet 10/100 Mbps
	USB	USB2.0 Host/OTG
	Memory	Micro -SD Socket
Mechanics	Pan / Tilt Motor	Precision high speed step motor
	Iris Camera Lens	x12 Zoom & Auto Focus
Capture Volume	Height (Tilt)	± 45 cm (120 cm ~ 210 cm at 75 cm when table height is 117 cm)
	Width (Pan)	± 50 cm at 100 cm, ± 25 cm at 50 cm
	Distance	50 cm ~ 100 cm
Size	H x W x D	41.8 cm x 23.7 cm x 10.45 cm (16.5" x 9.3" x 4.1")
	Weight	8.8kg (19.4lbs)
Operating Environment	Operating Temperature	32°F~113°F (0°C~45°C)
	Storage Temperature	-4°F~203°F (-20°C~95°C)
	Humidity	5~95% non-condensing

## Mechanical Drawing



## Capture Volume



## Use Cases



Border control



National ID



Public security



e-Gate



Kiosk



Iris ID Systems, Inc.

8 Clarke Drive, Cranbury, NJ 08512, USA  
Tel. +1-609-819-4747 Fax. +1-609-819-4736  
[www.irisid.com](http://www.irisid.com) | [sales@irisid.com](mailto:sales@irisid.com)

© 2021 Iris ID Systems, Inc. All rights reserved. Design and specification subject to change without notice.



## IRIS ID AUTHORIZED RESELLER

# iBar 600

Advanced Multi-Biometric OEM Module



Counter  
measures



Advanced  
Security



Large  
Capture Volume



Brand Customization  
Available



Intuitive LCD  
User Interface

The all new iBar 600 from Iris ID is the latest product release designed to help travelers skip the hassle when they need to identify and authenticate. It was created in response to industry insiders communicating a need for a product that would deliver an efficient and effective user experience. Ready for enrollment programs and security check in's including at the airport or for immigration, the iBar 600 is a complete and seamless OEM module that streamlines the verification process.

With an impressive capture volume, the multimodal iris & face collection iBar 600 is adept at providing crisp and accurate images at various angles – even capturing someone in a wheelchair. Upon kiosk approach, users will meet an intuitive and user-friendly 1.3" circular LCD interactive screen. This screen placement instinctively attracts a user's eyes to begin the identification process. With activation, cameras on the LCD zoom in and out and subtitles are featured on the bottom of kiosk screens as an additional instructional guide.

The iBar 600 is a smart, image capture standards compliant biometric system designed to work with legacy kiosk or gate implementation within aviation or transportation sectors.

## Features



Standards Compliant High Quality Video Streaming



REST API Easy Integration



Auto Zoom, Focus and Image Cropping



Flexible Mounting Options



Field Proven Technology



Iris & Face Capture up to One Meter



Platform Independent Integration



OEM Package for Kiosk or Gate Installation



Works with Masks and Glasses



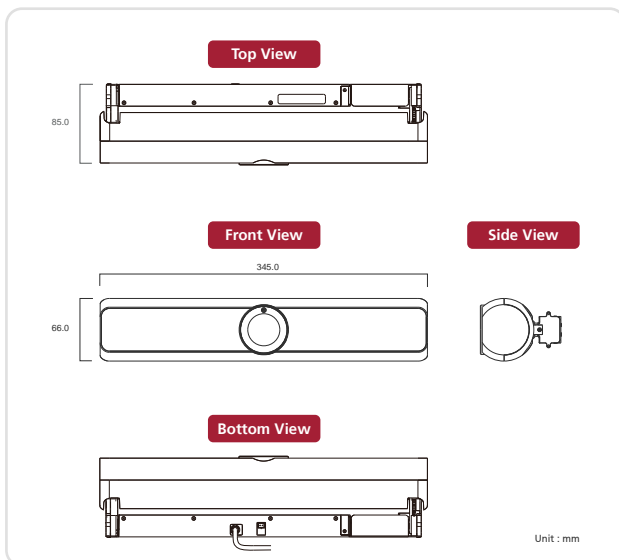
SDK for Image Quality, Template Generation & Matching \*

## Specifications

Basic	CPU	Cortex-A53
	Storage	2GB DDR3, 16GB eMMC
	OS	Linux Kernel Version 4.4
Display	Size	1.3 inch, Circle Type TFT LCD
	Resolution	320(H) x 320(V)
Connectivity	USB Camera	Ethernet over USB
Camera	Iris Camera	2.3MP, Dual Iris
	Face Camera	13MP, HDR
Illumination	IR LED	ISO 29794-6 Standards Compliant - NIR LED
Security	Secure Chip	PKI Based API Key Management

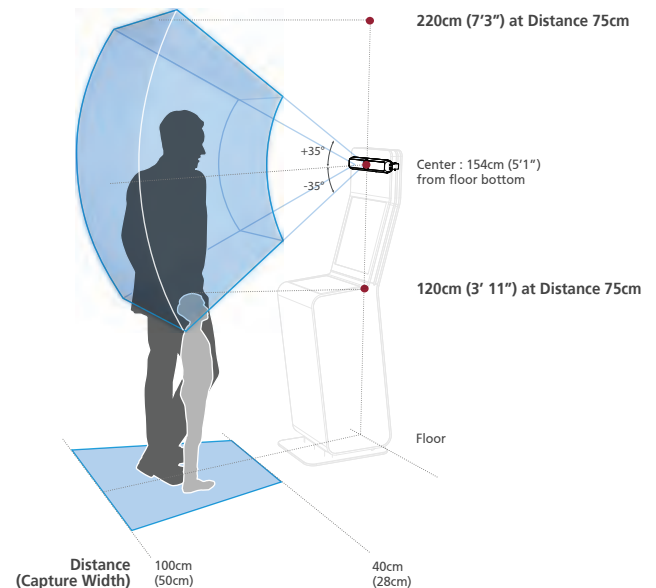
Mechanics	Pan / Tilt Motor	Precision high speed
	Iris Camera Lens	x12 Zoom & Auto Focus
Power	Power Supply	DC24V 2.5A
Capture Range	Height (Tilt)	± 52cm at 75cm (±35°)
	Width (Pan)	± 20 cm at 75cm (±5°)
	Distance	40cm ~ 100cm
Size	W x H x D	345mm x 66mm x 85mm (13.6" x 2.6" x 3.3")
	Weight	1.1kg (2.4lbs)
Streaming	Face Image	H.264 Format, 30FPS @ 1280x960 or VGA (Video Only)
Operating Environment	Operating Temperature	32°F~113°F (0°C~45°C)
	Storage Temperature	-4°F~203°F (-20°C~95°C)
	Humidity	5~95% non-condensing

## Mechanical Drawing



\*Optional

## Capture Volume



## Use Cases



Kiosk



e-Gate



ATM / VTM



Border Control



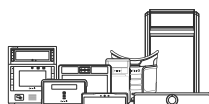
National ID



Iris ID Systems, Inc.

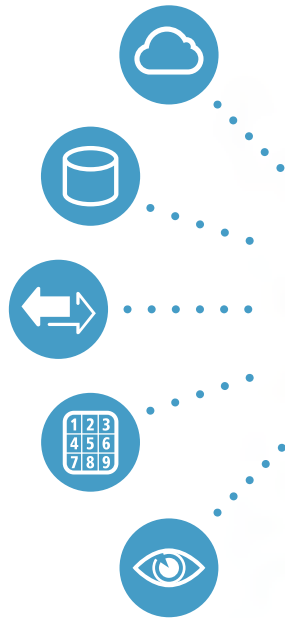
8 Clarke Drive, Cranbury, NJ 08512, USA  
Tel. +1-609-819-4747 Fax. +1-609-819-4736  
[www.irisid.com](http://www.irisid.com) | [sales@irisid.com](mailto:sales@irisid.com)

© 2022 Iris ID Systems, Inc. All rights reserved. Design and specification subject to change without notice.



IRIS ID AUTHORIZED RESELLER

# Iris Recognition Reader



iCAM7101S-B\*  
Black color



iCAM7111S-H1T\*  
Titanium color

\*See complete list of model options

## Access Control and Time & Attendance



## Transportation Solutions



## Workforce Management Solutions

**IrisAccess®**



Iris ID's IrisAccess solutions continue to set the highest standard for performance and versatility for iris recognition. Whether you are looking for a single biometric identification solution, or a multi-factor verification solution that works with cards, card readers or keypad solutions, the IrisAccess platform will meet your needs.

Iris ID has been the leader and key developer and driver of the commercialization of iris recognition technology for the past 18 years. The IrisAccess® System continues to lead the market as the world's most advanced and most widely deployed iris recognition platform.

The iCAM 7S series has features no other iris system offers. The iCAM 7S enables rapid iris acquisition with greater image quality for superior enrollment and recognition. The patented holographic targeting mirror is just one part of an intuitive and interactive interface that includes voice and visual feedback for increased speed. All models feature the robust Iris ID countermeasure package that experts agree sets the standard in the industry.

The new iCAM 7S series is a leap forward with larger system capacity and even easier to use. A larger targeting mirror and Auto-tilt assist allows touchless operation. The iCAM 7S models will operate in highly lighted areas – (up to 17,000 lux).

Iris ID's biometric solutions provide highly accurate, non-contact identification by the iris of the eye from 14 inches away while delivering security, convenience, privacy and productivity to millions of people around the world. The iCAM 7S versatility and flexibility allows for easy integration with any Wiegand, OSDP/RS485 or IP network based access control, time and attendance, visitor management or point of sale applications.

Engineering and design teams have further enhanced the intuitive user interface of the iCAM series with visual and audible prompts that provide the easiest, quickest and most accurate iris enrollment and identification. A new, rapid, auto-tilt capability further enhances speed and convenience with a simple touch or when combined with cards or PINs to adjust for height. A face image can also be obtained during enrollment to streamline badging and visitor management applications while a space for an optional surveillance camera has also been incorporated.

All iCAM models are supported by a comprehensive iData IrisAccess EAC software suite for access control. Software development toolkits allow partners to build customized identity management applications.

Every iris pattern is unique and stable for life and since there are more readily measurable characteristics in the iris. Iris recognition is regarded to be the most accurate, fastest, and scalable option for both small and large scale biometric deployments. Other biometric modalities such as fingerprint, hand, voice, vein and facial characteristics can often vary and change over time or with use conditions.

## iCAM7S series

### Advanced Multifactor Biometric Iris Reader

#### BENEFITS

- High Accuracy 1:N and 1:1 Capability
- High Speed - High Throughput
- Exceptional Flexibility and Ease of Integration
- Non-contact - Clean and Hygienic

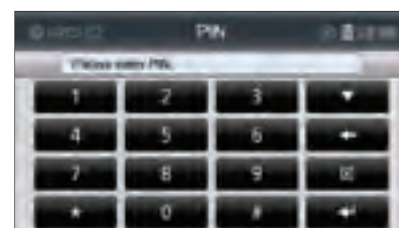
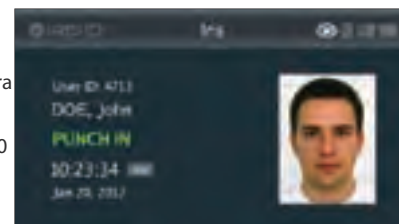
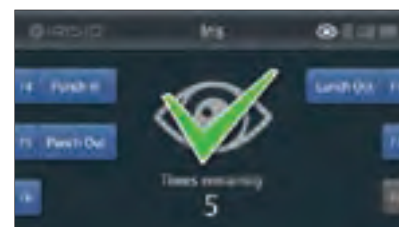
#### ARCHITECTURE

- Optional Identity control panels (ICU7000-2) and Iris Enroll and matching software (Iris Access EAC) may be required depending on the project requirements.

- On board Time & Attendance Functions
- Anti-fraud: Fake iris detection
- Full set of contactless technologies

#### FEATURES

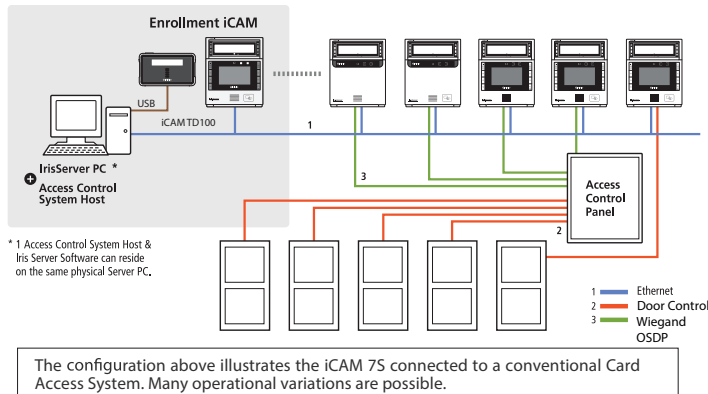
- Fast Fully Automatic Dual Iris Capture
- Easy Non-intrusive, Non-contact User Interface
- Integrated High Resolution Face Capture Camera
- Integrated Contactless Smart Card Reader (Option)
- Leverage Existing Infrastructure
- Capacity for Optional Third-party Surveillance Camera
- Easy Installation and Maintenance
- Backwards Compatible with IrisAccess 4000 and 7000 Systems
- Remote Management
- Stand-alone Door Access Capability
- Time and Attendance Ready
- Flush or Recess Mounting
- Capable of 1:N Matching of Millions Depending on Architecture



## Basic System Configuration

The IrisAccess platform consists of iDATA EAC (Entry Access Control) enrollment and matching software as well as the award winning IrisAccess iCAM hardware. Individual hardware components can be easily configured. Many settings and options allow flexibility to meet application specific requirements and changing operational modes.

### Sample IrisAccess Configuration



### Iris ID Algorithm

Iris ID is recognized as the world leader for iris identification accuracy. The Iris ID algorithm is recognized and tested by NIST. The superior onboard quality assessment and countermeasures suite assures reliable and consistent performance.

### Safety and Standards Compliant

Iris ID's success as a designer and manufacturer of high quality iris recognition for over 18 years is reflected by the adoption of Iris ID products and our global leadership. Continuous review of market needs, human factors requirements and applying precise engineering enable Iris ID to deliver market leading solutions. Iris ID products have always met or exceeded all US and international eye safety requirements. The optics and subtle illumination produced by IrisAccess products have been thoroughly tested and found to fall well within UL and ANSI eye safety standards. The full line of Iris ID Iris Readers and Cameras are tested and comply with the most stringent safety standards: IEC 67421, UL294 ETL, and CE. Iris ID Cameras also conform to ISO 29794-6 Iris Interchange Standards.

### System Security

Iris ID iCAM 7S Iris Readers include an array of security features which improve network communication and database protection. Digital certificates and standards based encryption are all a part of IrisAccess solutions.

### Key Features

iCAM 7S Iris Readers all reside on a TCP/IP network for device management. A wide array of input/output (I/O) connections are provided on all iCAM7 models which enable connection to virtually any third party system. iCAM 7S Provides both reader and controller capability in a single device. This design allows for a simple setup procedure and long term system stability eliminating any single point of failure affecting the entire system operation. Operation can also be administered completely standalone via on-device Enrollment, thus eliminating the need to install any software on a PC in some configurations. iCAM 7S provides both Security and Convenience. Readers can be configured for virtually any combination using Iris Biometrics, Cards or Pins. This allows for the highest level of security or the greatest level of convenience depending on the application use case requirement.

### Recognition Modes

1:N Identification, 1:1 verification with Iris + Card or PIN, 1:1 with Iris template encrypted on a Smart Card, Iris or Card or Pin

### Additional Software Options Available:

Iris ID has a number of other options for greater system flexibility and database integrations.

- iData EAC Toolkit Database Interface – COM API SDK
- USB Camera Enrollment Application
- Data Migration & Synchronization tools
- IA Punch Service - Used in many Time & Attendance installations.
- IA Reporting Application – Robust

Ask your Iris ID sales representative for a comprehensive overview of the available tools. Iris ID is ready to provide Professional Services to address your particular business needs.

### iData™ EAC Software Requirement & Features

Simple and flexible administrative user interface for enrollment.

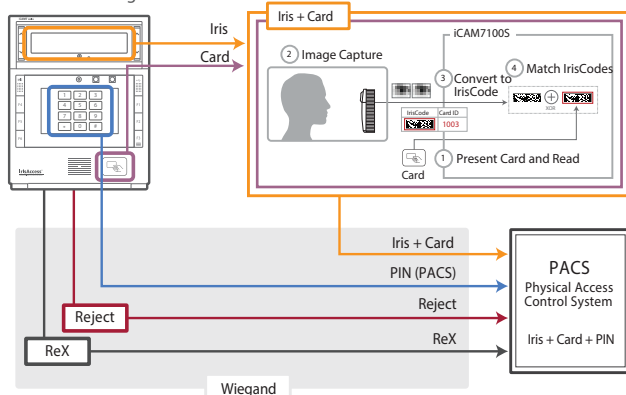
#### System Requirement:

- Windows 2000/XP, Windows Vista, Windows 7, Windows 8.1, Windows 10, Windows 2008 & 2012 server Pentium Compatible 1.8 (or higher) GHz Processor
- 2 GB or higher Memory (OS dependent) – 10 GB Hard Disk space (or greater)
- CD/DVD Drive (For Software Installation) – Ethernet Port (100 Mbps recommended)
- Databases Supported – MS Access, MS SQL, MS SQL Express, Oracle
- See <http://www.irisid.com>

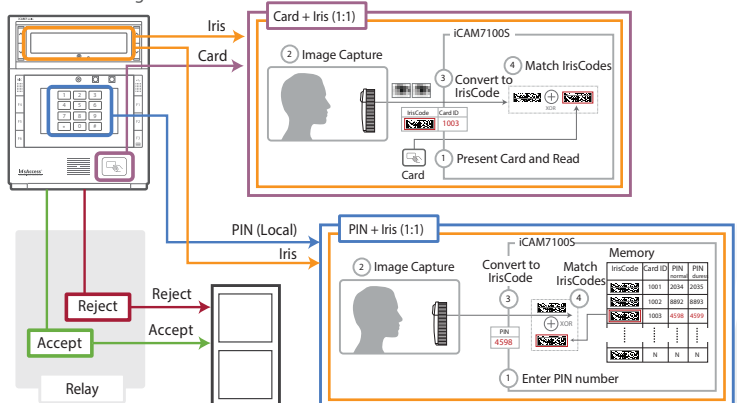
### Multi-factor Authentication

Multi-factor authentication can be easily accomplished by using a combination of EAC software, iCAM 7S units with built in keypad and card readers (or third party readers) and leveraging a third party Physical Access Control System (PACS) that can support Card + PIN as an authentication mode. The result is authentication by Card + Iris + PIN. All iCAM models can be used with preinstalled external readers that output wiegand to offer 2 and 3 factor authentication options. Specific settings can be found in the iCAM7 series user guide under multi-factor authentication options.

#### 3 Factor Authentication: iCAM 7S\* with PACS System (PACS PIN)



#### 2 Factor Authentication: iCAM 7S\* without PACS System (Local PIN)



\* See complete list of model with options for LCD Keypad and Card reader functions.



## iCAM 7S series Unit Model Matrix

Model Number	LCD Display / On-Screen Pin Pad	Card Reader	Color
iCAM7000S-B	No	No	Black
iCAM7000S-T	No	No	Titanium
iCAM7010S-H1B	No	Yes	Black
iCAM7010S-H1T	No	Yes	Titanium
iCAM7101S-B	Yes	No	Black
iCAM7101S-T	Yes	No	Titanium
iCAM7111S-H1B	Yes	Yes	Black
iCAM7111S-H1T	Yes	Yes	Titanium
Accessories	Description	Color	
iCAM7-RMB	Recess Mount Kit	Black	
iCAM7-RMT	Recess Mount Kit	Titanium	
iCAM7-ST	Desktop Stand	Black	
iCAM7-PWR	Power Supply	Black	
Third Party Accessories	Description		
STI-7520	NEMA 4 Enclosure		
STI-7520HTR	NEMA 4 Enclosure with Heater		

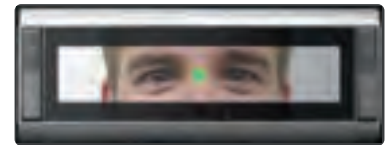
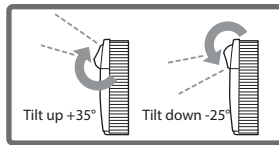
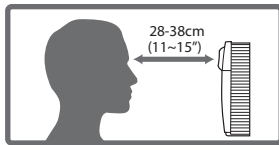
## Use of IrisAccess



## iCAM 7S series Specifications

Dimensions (W x H x D)	7.01" x 8.31" x 2.52" (178mm x 211mm x 64mm)
Weight	3.5lbs (1.6kg)
Power Input / Consumption	12~24 VDC, 2.0 Amps @ 12 VDC / 24W
Status LED	Multi Color - Red, Green, Blue for status and alarm indication
Iris Operating Range Indicator	Dual Color - Orange (out of range), Green (in range)
Voice Indication	English and Korean standard, other languages available
Iris Capture Range	11"~15" (28cm~38cm)
User Input	Six user definable Function Keys (iCAM7101S, iCAM7111S)
Touch Screen LCD Display	4.3" / 480 x 272 pixels (iCAM7101S, iCAM7111S)
Pin Pad	Pop-up on screen pin pad (iCAM7101S, iCAM7111S)
Flash	High output LED flash for face capture
Face Image Camera	Face camera CMOS - 5MP
Reader Database Capacity	100,000 Users
Transaction Log Capacity	Up to 1,000,000 transactions stored on device, unlimited on server
Relays x 2 (door, other)	Control for all electric locking mechanisms and auxiliary relay for user defined operation
Operating Temperature	32°F~113°F (0°C~45°C)
Storage Temperature	-4°F~203°F (-20°C~95°C)
Humidity	Up to 90% non-condensing
Iris & Face Camera Rotation Angle	+35°/-25°
Communications	Ethernet (LAN, WAN), RS232, RS485, RS422
Inputs / Outputs	Embedded Card Reader (Optional), Wiegand In, Wiegand Out, OSDP/RS485, Dry Contact Relay x 2, Programmable GPIO x 4
Equipment Supplied with iCAM 7S series	Instruction Manual - Hardware Guide
IrisAccess EAC Server for Enterprise, iData SDK	Refer to IrisAccess Enterprise Access Control Software specifications
Certifications	CE, FCC, KC, Eye Safety, UL294, ISO Standard, IEC, KISA

## User Interface



- iCAM activates when user approaches or when card is presented.
- Picture capture range is 11~15 inches (28~38cm) away.
- Self or auto/set tilt adjustment.
- Positioning dot over the bridge of nose, easily helps alignment.

- Orange dot turns to green when user is at correct distance.
- Visual indication is complemented with friendly audio prompts.
- Right and left iris images are acquired.
- A face picture can also be captured.

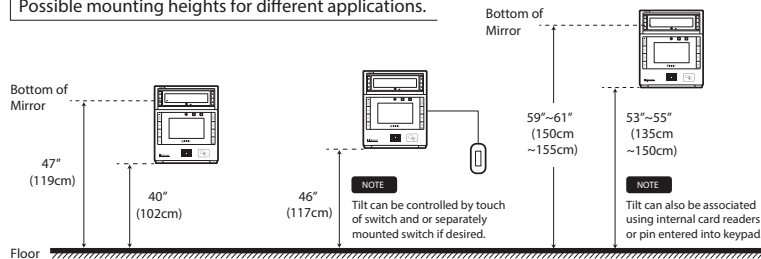
Green dot = In range  
Orange dot = Out of range

## Installation and Dimension

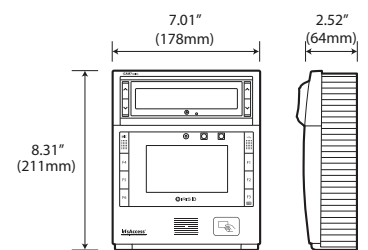
Iris Camera Mounting Height should take into consideration the environment and specific application. Taller people can always bend slightly at the waist or look down at a fully tilted up camera.

Shorter people may require some consideration and thought by the installers. The iris camera can be mounted lower. An external tilt switch can also be used to aid in tilting of camera target mirror.

### Possible mounting heights for different applications.



Suggested Mounting Heights only. Height should take into consideration the users and the read range of 11-15 inches away from the front of the mirror. Taller people have more flexibility to look or bend down slightly. The cameras should be at a comfortable height where shorter people can comfortably use the technology.



Suggested mounting height and dimensions. Surface Mount: Back plate included. Recess Mount: Recess/Trim kit sold separately.

## Eye Safety

Iris ID's success as a designer and manufacturer of high quality iris recognition solutions for over 18 years is reflected by the global leadership and adoption of Iris ID products. Continuous review of market needs, human factors requirements and precise engineering enable Iris ID to deliver market leading solutions. Iris ID products have always met or exceeded all US and international eye safety requirements. The optics and subtle illumination produced by IrisAccess products have been thoroughly tested and found to fall well within UL and ANSI eye safety standards.

### iData™ EAC Software Features

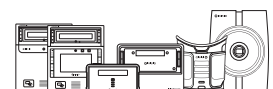
Enrollment:	Simple and flexible administrative user interface for enrollment.
Setup:	Improved software setup and configuration tools for ease of installation.
Reporting:	Individuals are identified as their biometrics are presented. Transactions are stored in the system log and can be downloaded by a system administrator. Logs can also be integrated into an HR time keeping system. IrisMonitor™ provides real time access reporting for multiple iCAM7 series devices.



Iris ID, Inc.

8 Clarke Drive, Cranbury, NJ 08512, USA  
Tel. 609-819-IRIS(4747) Fax. 609-819-4736  
www.irisid.com

© 2021 Iris ID, Inc. All rights reserved. Design and specification subject to change without notice.



# iCAM R100

Iris Recognition Camera Module



DUAL IRIS	FACE CAMERA	FLASH LED
	USB	1/4 -20 Mount

- 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
- 5 MP face camera White LED flash
- Comfortable Capture Distance 28~38 cm (11~15 Inches)
- Flexible Mounting Options
- USB3.0 Powered

The iCAMR100 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

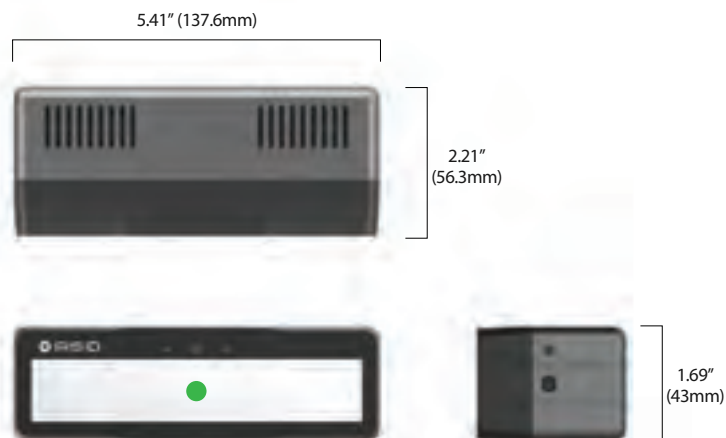
The iCAM R100 performs high-speed dual iris capture and outputs high quality ISO standards compliant images. Both eyes can be simultaneously captured. The R100 provides an unparalleled intuitive user interface, which makes the process easier for the user and operator. The R100 is also equipped with an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

# Technical Specifications

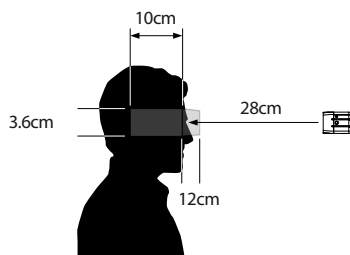
## Applications

- 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)	5.41" x 2.21" x 1.69" (137.6mm x 56.3mm x 43mm)
Weight	0.52lbs (240g)
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	11" ~ 15" (28cm ~ 38cm)
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	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature	-4°F ~ 203°F (-20°C ~ 95°C)
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



Iris ID Systems, Inc.

8 Clarke Drive, Cranbury, NJ 08512, USA  
Tel. 609-819-IRIS(4747) Fax. 609-819-4736  
www.irisid.com

formerly **LG IRIS**



©2021 Iris ID Systems, Inc. All rights reserved. Design and specification subject to change without notice.

## iCAM M300

Multimodal Biometric PDA



- Multimodal – Iris & Face & Fingerprint (with M3-AM)
- High Speed Dual Iris Capture (Standards Compliant)
- 500 dpi Single Finger Sensor
- MRZ & Magnetic Swipe Card Reader
- IP54 Compliant - Dust & Water Resistant
- Connectivity - 4G LTE / HSPA+ / GSM / GPRS
  - Wireless WAN & LAN, GPS
- Various Ready-to-use Accessories (Cradle, Direct Auto Charger Kit & rechargeable batteries)

# Technical Specifications

## iCAM M300

CPU	1.8GHz Octa-core processor
OS	Android 6.0 Marshmallow
Dimensions	139mm(H) x 73mm(W) x 21mm(D) 5.4inch(H) x 2.8inch(W) x 0.8inch(D)
Weight	250g (8.8oz) with 1860mAh Battery 300g (10.6oz) with 4000mAh Battery
Display	4.3Inch / WVGA(480x800)
Touch Panel	Capacitive touch (Optional : Resistive touch)
Operating Temperature	-20 C ~ 60 C (-4 F ~ 140 F)
Storage Temperature	30 C ~ 70 C (-22 F ~ 158 F)
Humidity	Non-condensing, 93%
Camera	13Mega Pixel Camera with Autofocus and LED Flash
Wireless WAN (World wide)	4G : Band1(2100), Band3(1800), Band7(2600), Band20(800) 3G : Band1(2100) 2G : GSM 900, 1800
Wireless WAN (US)	4G : Band2(1900), Band4(1700), Band5(850), Band17(700) 3G : Band2(1900), Band4(1700), Band5(850) 2G : GSM 850, 1900
Wireless LAN	IEEE 802.11 a/b/g/n/ac
Bluetooth	Bluetooth 4.2 BLE
GPS	Embedded A-GPS

## Iris Camera

Camera	5MP B&W CMOS sensor
Operating Range	350±40mm(12.2"~15.3")
Resolution	Above 160 pixel/cm
Iris Capture Volume	130mm x 46mm x 80mm
Illumination	IR LED
Image	2592 x 920 x 30 Frame
Dimension	56mm(W) x 21mm(H) x 10mm(D)

## Fingerprint Module

Sensor Type	Touch Area Sensor
Sensing Area	8mm x 8mm x 0.7mm (WxHxD)
Sensing Array	192 x 192 Pixel (508dpi)
Pixel Resolution	256 Gray scale values
1 Finger 1 Template Data	256 Byte

## OCR (MRZ Reader)

Standard OCR Fonts	OCR-B and E13B
Machine Readable	2 lines of 44 characters
Passports (MRP)	
Machine Readable	2 lines of 44 characters, 2 lines of 36 characters
Visas (MRV)	
Travel Documents	2 lines of 36 characters, 3 lines of 30 characters
Field of View Object Height	19.6 mm nominal
Depth of Field	1.5 mm maximum from imager window

## MSR (Magnetic Swipe Card Reader)

Magnetic Swipe Reader	Reads magnetic cards complying with ISO7811/2-5
-----------------------	---



## Accessories



Desktop Cradle

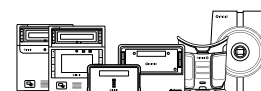


Snap on

IRIS ID AUTHORIZED RESELLER



**Iris ID, Inc.**  
Daerung Post Tower 1st, Suite 512,  
288, Digital-ro, Guro-gu, Seoul, 152-790, Korea  
Tel. +82-2-3289-5300 Fax. +82-2-3289-5302  
[www.irisid.co.kr](http://www.irisid.co.kr)



©2017 Iris ID, Inc. All rights reserved. Design and specification subject to change without notice.

## High Speed High Quality



DUAL IRIS	USB 2.0	IP54
	TETHERED	

- High Speed Dual Iris Capture
- USB Powered
- Orientation Sensor
- Compact and Lightweight
- Standard Tripod Mount
- Standards Compliant Hardware and Software
- Integrated Cable Management
- Detachable Visor for easy care/cleaning
- IP54 Compliant - Dust and Water Resistant

Iris ID (formerly LG Iris) has been producing commercial iris recognition systems since 1997. In thousands of locations, IrisAccess® authenticates the iris identity of more persons than all other iris platforms combined. Iris ID's rich experience in iris recognition is exemplified in the iCAM T10.

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 T10 performs high-speed dual iris capture and outputs high quality ISO standards compliant images. Both eyes can be simultaneously imaged utilizing the USB2.0 interface. The T10 provides an unparalleled intuitive user interface, which makes the process easier for the subject and operator. The T10 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.

### IP54 Reliability and Certifications

The iCAM T10 conforms to IP54 standards for water, humidity, and dust resistance. The elastomeric material and design of the T10 further enhances its durability allowing for easy cleaning. The T10 meets or exceeds CE, FCC, and Eye Safety industry certification standards.

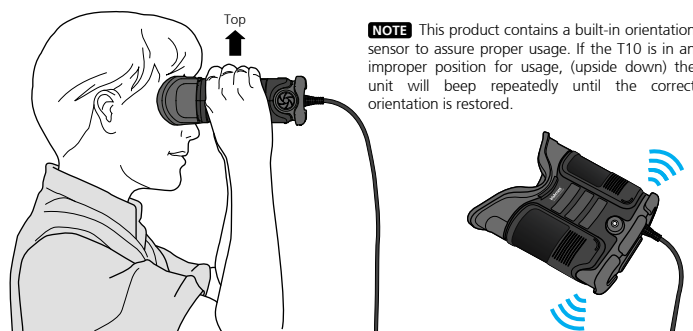


# Technical Specifications

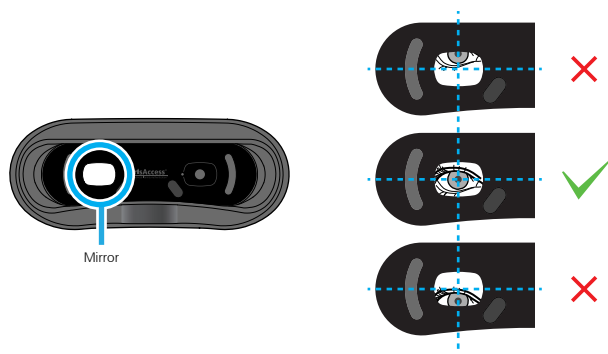
Fully automatic dual iris image capture and quality analysis routines are available as a part of the Iris ID SDK API set for the field application of the iCAM T10. An illustration of the iris capture process is shown below.

## How to Operate

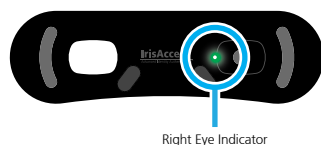
- 1 With the top of the unit facing up, gently hold the hand grips located at either side of the visor. Place the T10 in front of your eyes so that it is centered between the bridge of the nose and forehead as shown below.



- 2 With the visor in position, look straight into the unit so that the left eye is centered in the mirror. (During the enrollment process the eyes should be open as wide as possible until the capture process is completed)



**NOTE** If looking into the mirror with the left eye is not possible or uncomfortable; the user may position the right eye straight at the right eye indicator LED. The unit operator may assist in directing you during this process.



## 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 T10 (USB Iris Camera)

Dimensions (W x H x D)	7.55" x 6.56" x 2.61" (191.7mm x 166.5mm x 66.2mm)
Weight	0.96lbs (438g / Camera Unit: 0.58lbs, Sun Visor: 0.38lbs)
Power Input	USB Bus Powered
Iris Camera	1.2MP Auto & Manual Dual Iris Capture with B&W Image Sensor
Iris Capture Range	4.92" (125mm)
Interface	High Speed USB 2.0
Indication	External Green LED for Power Indication & Internal Green LED for Right Eye Positioning. Beep Sound (Optional by Application)
Usability	Detachable Visor for cleaning the front window IP54 for Dust and Water Resistant
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature	-4°F ~ 203°F (-20°C ~ 95°C)
Humidity	0 ~ 95% Non-condensing
Certifications	CE, FCC, Eye Safety

## Items Required for Use of This Product

### Required Equipment (not provided by Iris ID)

- Windows based PC (Windows XP (32-bit) / Windows 7 (32-bit) / Windows 7 (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

**NOTE** An available and dedicated USB 2.0 compliant port is needed to properly use the iCAM T10.



## iDATA iCAM T10 SDK

Iris ID provides an API SDK to enable all functions of the iCAM T10. The development environment and functionality of the SDK for the iCAM T10 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

## IRIS ID AUTHORIZED RESELLER



Iris ID Systems, Inc.

8 Clarke Drive, Cranbury, NJ 08512, USA  
Tel. 609-819-IRIS(4747) Fax. 609-819-4736

[www.irisid.com](http://www.irisid.com)

©2012 Iris ID Systems, Inc. All rights reserved. Design and specification subject to change without notice.

formerly **LG IRIS**



# iCAM TD100A

Iris & Face Recognition Camera



- High Speed Automatic Dual Iris Capture
- High Quality Color 2D Face Capture
- Single Motion Automatic Iris and Face Capture
- Intuitive Operator LCD Guidance System
- Standards Compliant Hardware and Software

DUAL IRIS & 2D Face	FACE CAMERA	3.5 inch LCD
	IP54	USB 3.0

iCAM TD100A Model Matrix	iCAM TD100A	External Power & Removable Cable
	iCAM TD100A-U	USB 3.0 Power & Removable Cable
	iCAM TD100A-C	USB 3.0 Power & Captive Cable

The iCAM TD100A can be ordered in one of three configurations as noted above. A fully compliant USB 3.0 PC can use the iCAM TD100A-U or iCAM TD100A-C. Older PC's with a USB 2.0 port requires the use of the external power supply with Siamese cable.

Iris ID has been producing commercial iris recognition systems since 1997. In thousands of locations, IrisAccess® authenticates the iris identity of more persons than all other iris platforms combined. Iris ID's rich experience in iris recognition is exemplified in the iCAM TD100A.

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 while either the person or the device is in motion. The "iris in motion" capability helps to realize new horizons in market applications for the technology.

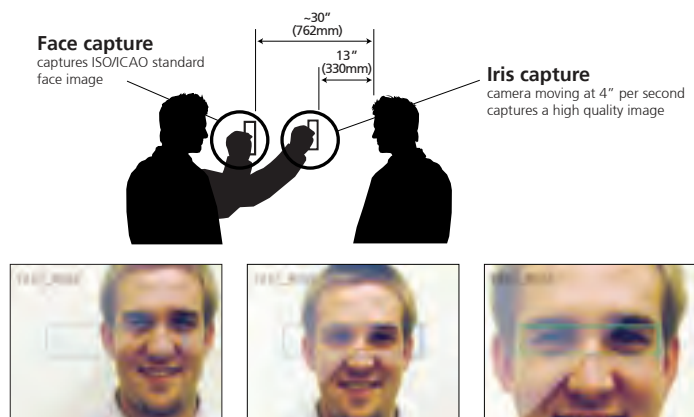
## High Speed - Dual Iris capture

The iCAM TD100A includes an optical system specifically designed and optimized to operate in perfect unison with the integrated high speed multi-sensor iris imager array. The iCAM TD100A automatically processes and outputs high quality ISO standards compliant iris images of a subject in less than one second as the device or the subject approaches the optimum capture distance.

# Technical Specifications

## Iris Image Capture Process

Fully automatic dual iris image capture and quality analysis routines are available as a part of the Iris ID SDK API set for the field application of the iCAM TD100A. An illustration of the iris capture GUI screen is shown below. Iris ID's iData SDK runtime license for iris enrollment and quality assessment is available for use with the iData TD100A module subsystem. Iris and face capture are performed by the operator extending their arm from the face capture distance to the iris capture distance as illustrated below.



## Face Image Capture

The face capture API function is included in the SDK.

- The integrated framing function provides feedback for the capture of a properly formatted ISO/CAO face image.
- Manual face capture with auto focus is also possible through the camera calls in the iData SDK sample application.
- An application developer can also use host based face finding to trigger the face capture automatically from the host processor.
- Face capture can be initiated through API or via the shutter button on the iCAM TD100A.
- Sample illustrations of face capture modes are shown below.



## iDATA iCAM TD100A SDK

Iris ID provides an API SDK to enable all functions of the iCAM TD100A. The development environment and functionality of the SDK for the iCAM TD100A module closely mimics those of the widely deployed iData SDK for the IrisAccess iCAM4000 series cameras. Application developers familiar with the Iris ID API's 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 for the sample GUI will be delivered as a part of the SDK API. 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 and face image capture, and iris template matching.

## iCAM TD100A (Iris & Face Camera)

Dimensions (W x H x D)	5.9" x 3.3" x 1.2" (150mm x 83mm x 30.5mm)
Weight	0.5lb (0.23kg)
Power Input	5VDC
Power Consumption	Idle 2.3W Typical 4.3W Max 5.5W
Iris Capture	Automatic Dual Iris Capture Capture Distance 330 +/- 20 mm ISO/IEC 19794-6 Standards Compliant Image High Quality
Face/Scene Capture	2560 x 1920 5MP Image Sensor - 2.3 mm @ F# 2.2
Iris Illumination	Multiband IR
Iris Enrollment	Less than 2 seconds for complete two iris capture Less than 8 seconds for complete transaction (includes face & iris)
Face Capture	ISO/IEC 19794-5 Standard Compliant Image Approximately 19" ~ 36" from subject for proper framing Manual or Auto Focus available
Scene Capture	Manual or Auto Focus available through API
Sound	Software volume control level Audio files can be uploaded to iCAM TD100A Standard Iris ID sound files are loaded at a time of shipment
Speaker	1 W 17mm dia speaker
LCD Display	3.5" Color LCD / 380 NIT
Status Indicator	Blue Blinking - Start Up Blue - Power On Green - Identification OK Both Eyes Green Blinking - Identification OK One Eye Red - Reserved Red Blinking - Reserved
Shutter Button	Wake Up / Capture Face / Capture Scene / Force Iris Capture
Meta Data	Available
Operating Range	14" (36 cm)
Operating Temperature	32°F ~ 120°F (0°C ~ 50°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Humidity	0% ~ 95% Non-condensing
Certifications	CE, FCC, KC, Eye Safety, ISO Standard

### Interface

- High Speed USB 2.0

### Equipment supplied with iCAM TD100A

- USB+Power Cable, 5VDC Power Supply 120/240VAC 50/60Hz

### Interface

- High Speed USB 3.0

### Equipment supplied with iCAM TD100A-U

- USB3-3 Cable

### PC Requirements

- Operating System: Window® 7(32-bit) /10(32,64-bit)
- Processor: Pentium® 4 1.6GHz or higher
- Memory: 512MB or higher
- Hard Disk: 5GB (Sample Applications) or higher

### Accessory

- USB3-3 1.8 M USB cable (incl with iCAMTD100A-U)
- iCAM TD100-Case
- Protective Case (sold separately)



## IRIS ID AUTHORIZED RESELLER



Iris ID Systems, Inc.

8 Clarke Drive, Cranbury, NJ 08512, USA  
Tel. 609-819-IRIS(4747) Fax. 609-819-4736

[www.irisid.com](http://www.irisid.com)



# OU7S-AKT

OEM Iris Recognition Camera Module



DUAL IRIS	FACE CAMERA	LED FLASH
	USB 3	TILT ASSIST

- High Speed Iris and Face Capture
- National ID Quality Iris Image - Standards Compliant
- Intuitive User Interface with Virtual LED Indication
- 5 MP face camera White LED flash
- Comfortable Capture Distance 28~38 cm (11~15 Inches)
- Flexible Mounting Options
- Power Adapter Powered
- Tilt Assist

Iris ID has been producing commercial iris recognition systems since 1997. In thousands of locations, IrisAccess® authenticates the iris identity of more persons than all other iris platforms combined. Iris ID's rich experience in iris recognition is exemplified in the OU7S-AKT.

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 OU7S-AKT performs high-speed dual iris capture and outputs high quality ISO standards compliant images. Both eyes can be simultaneously captured. The OU7S-AKT provides an unparalleled intuitive user interface, which makes the process easier for the user and operator. The OU7S-AKT 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.

# Technical Specifications

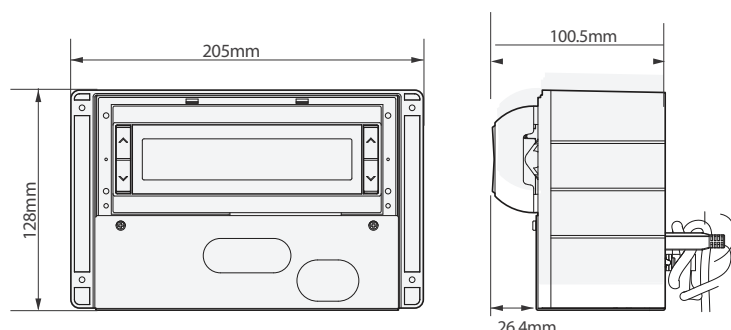
## OEM Applications

- Kiosks
- Smart Kiosks
- ATM
- VTM

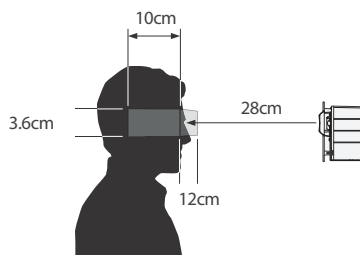
## OU7S-AKT Unit Model

Model Number	Description	Color
OU7S-AKT	USB	Titanium

## Mechanical Drawing



## Capture Volume



## iDATA OU7S-AKT SDK

Iris ID provides an API SDK to enable all functions of the OU7S-AKT. The development environment and functionality of the SDK for the OU7S-AKT 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.

## OU7S-AKT (OEM Iris Camera Module)

Dimensions (W x H x D)	205mm x 128mm x 100.5mm (8.07" x 5.04" x 3.96")
Weight	800g (1.76lbs)
Power Input / Consumption	12~24 VDC, 2.0 Amps @ 12 VDC / 24W
Iris Operating Range Indicator	Dual Color - Orange (out of range), Green (in range)
Voice Indication	English standard, others available by download
Iris Capture Range	28cm~38cm (11"~15")
Flash	High output flash for face capture
Face Image Camera	Face camera CMOS - 5MP
Operating Temperature	0°C~45°C (32°F~113°F)
Storage Temperature	-20°C~95°C (-4°F~203°F)
Humidity	Up to 90% non-condensing
Iris & Face Camera Rotation Angle	+35°/-25°
Communications	USB
Equipment Supplied with OU7S-AKT	Instruction Manual - Quick Start Guide
iData SDK	
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 7 (32/64-bit) / Windows 10 (32/64-bit))

Minimum Computer requirements

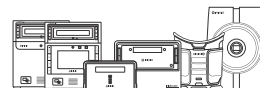
- Microsoft Windows 7 (32-bit), or Windows 7 (64-bit) OS
- 512MB RAM (or higher)
- x86 Processor, 2.0 GHz (or higher)
- 2GB available HDD space or above
- Microsoft .NET Framework ver. 3.5
- Mouse, SVGA Monitor, Keyboard
- Dedicated USB 2.0 port (or higher)

**NOTE** An available and dedicated USB 2.0 compliant port is needed to properly use the OU7S-AKT

IRIS ID AUTHORIZED RESELLER



Iris ID Systems, Inc.  
8 Clarke Drive  
Cranbury, NJ 08512  
Tel. 609-819-IRIS(4747) Fax. 609-819-4736  
[www.irisid.com](http://www.irisid.com)



©2022 Iris ID Systems, Inc. All rights reserved. Design and specification subject to change without notice.



## Iris & Face Recognition

# iT100

Time Clock for the Modern Workforce



Iris / Face  
Fusion



Counter  
measures



Advanced  
Security



Large  
Capture Volume



Open Android  
Platform

The iT100 is Iris ID's newest non-contact AI (artificial intelligence) enabled biometric offering that features both iris and facial recognition technology. Automatic recognition of iris and/or face is possible. A large capture volume allows for increased flexibility, speed and convenience. Enhanced security through Secure Boot and open Android Platform provides an opportunity for third party application development.



## Features



### IRIS / FACE Fusion

Operates in Iris only / Face only / and, or, fusion mode. Select and use according to the biometric priority environment.



### Simultaneous Biometric Capture

Automatically captures dual iris and face at the same distance.



### Countermeasures

A proven set of anti-spoof measures that continues to set industry standards



### Non-Contact Authentication

Automatically captures faces and iris naturally up to 24 inches or 60 cm.



### 7 inch Multi Touch Display

Easy on device setting & user enrollment available with Self-guidance with live images on 7" multi Touch LCD.



### Eye Safety Certified

Tested and meets UL, ANSI, and international eye safety standards.



### Automatic Tilt Adjustment

The Camera automatically finds user and moves to a location where the user's eyes and face can be photographed.



### Advanced Security

Information is encrypted, Secure Boot platform and Advanced Network security.



### Large Capture Volume

Quickly and easily authenticates just by looking at the screen with wide recognition range of iris 30~60cm(12~24") & Face 30~80cm(12~32").



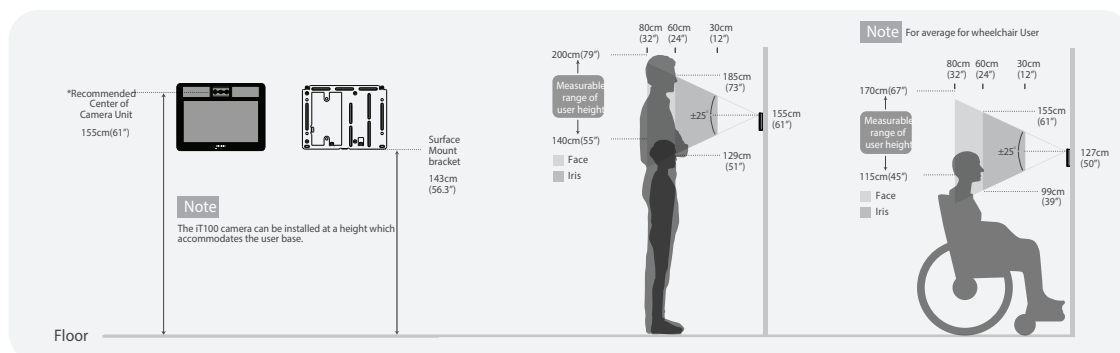
### Open Android Platform

Open Android Platform provides for third party application development.

## Specifications

Dimensions (W x H x D)	18cm x 14cm x 3cm (7.1" x 5.4" x 1.2")	Matching Speed	Less than 1 sec
Weight	1.2lbs (543g)	Tilt	Auto Range: -25° ~ +25°
Type	Walk-up	CPU	Cortex A-53 Octa Core
Power Input / Consumpt	12 - 24 VDC (auto - +/- 500 mv ripple voltage industry standard) / Max. 30watt	Algorithm	IrisCapture / DualEyelink™ / Countermeasure / Face Matching
OS	Android OS 7.1	Real Time Clock	Internal battery
User Interface	Self-guidance with displayed images on LCD	Proximity detection	ToF Sensor
Operation	Iris and or Face, Face + Iris Fusion	Certifications	CE, FCC, KC, Eye Safety, UL294
User Capacity	Up to 10,000 1:N, 100,000 1:1 users	Operating Range	Iris Camera: 30 ~ 60cm (12~24") / Face Camera: 30~80cm max (12~32")
Transactions	Number of transaction logs on device DB: 1M (Iris) / 100,000 (Face)	Temperature	Operating: 0 ~ 45° (32 ~ 113°F) / Storage: -20 ~ 90° (-4 ~ 194°F)
Encryption	AES256	Connectivity	Ethernet or Wi-Fi (optional) Relay
USB	1 Port	Upgradable Hardware	Weigand, GPI, Serial Interface, External Card Reader

## Installation



## IrisTime™ Solution

Iris ID's IrisTime™ solutions continue to set the standard for integration, performance and versatility for iris recognition. Whether you are looking for a single biometric solution, or a fusion of iris and face recognition, the IrisTime™ product is the answer. Integration with cards, or keypad input is also possible. IrisTime™ offers a built in App, the iTMS Solution and also provides a development environment for the application developer. A REST API provides access to all of the features and functions of the IrisTime™ platform.

## iTMS™

The iTMS™ (iT100 Management System) is a device management application that runs on Windows/Mac OS/Linux workstation that can manage multiple iT100's using the REST API. iTMS™ allows the administrator/operator to configure the iT100 so that it can instantly be up and running.

## Use Cases



Time & Attendance



Laboratory



Buildings



Healthcare



Manufacturing



Construction



Iris ID Systems, Inc.

8 Clarke Drive, Cranbury, NJ 08512, USA  
Tel. +1-609-819-4747 Fax. +1-609-819-4736  
www.irisid.com | sales@irisid.com



© 2020 Iris ID Systems, Inc. All rights reserved. Design and specification subject to change without notice.

IRIS ID AUTHORIZED RESELLER

## Technical Specifications for iData™ IrisAccess® EAC (Entry Access Control)




### iData™ EAC

The world's leading iris recognition entry access control software is iData™ IrisAccess® EAC.

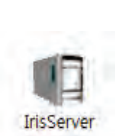
A highly versatile offering, IrisAccess® seamlessly interfaces with virtually any PACS (Physical Access Control System) via configurable Wiegand, relays, GPI/O and RS232/422 connections.

Comprehensive integration is also available through development kits and import tools that link user credentials, workforce management and reporting.

iData IrisAccess® EAC provides best of breed biometric authentication and security in an integrated or stand-alone environment that has been proven across many enterprises.

- iData™ IrisAccess® EAC software has a fully automatic image and template quality process that ensures that only good iris templates are enrolled and encrypted in the system.
- iIdentityCheck™ makes it virtually impossible to have a duplicate iris record entry in the system providing unparalleled accuracy. 
- Security measures and features include encryption of user data, credentials, countermeasures and tamper alarms that meet the highest requirements.
- Support for virtually any type of Card – PROX, iClass, MiFare, DESFire, PIV, CIV, etc.

IrisAccess® EAC Application Suite includes the following primary software components



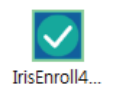
#### IrisServer

Controls the IrisAccess database and communications to and from the iCAM iris readers and IrisAccess® system applications. IrisServer is responsible for managing the distribution of enrollment data, transaction logs, and all other ancillary data communications. Only one IrisServer application per network is required.



#### IrisManager

Manages the system configuration, permissions, and user data. Up to 10 IrisManager applications can be placed on one network. Only one instance can be logged in and active at any given time to ensure database integrity. IrisManager is used to securely add iris readers to the system. IrisManager also controls the creation of operators and administrator accounts on the system and restricts enrollments by connected PCs.



#### IrisEnroll

Provides iris enrollment for all current and legacy iCAM models including the newest iCAM7000S, iCAM7000 and iCAM4000 series readers. The application is used to enroll iris data, capture a face image and enroll and encode card data as specified. Up to 32 concurrent enrollment units maybe deployed per network. IrisEnroll TD100 (USB iCAM) can also be used to enroll iris data and face images. IrisEnroll iCAM TD100 does not have card reader enrollment or encoding capability.



#### IrisMonitor

Allows for real-time monitoring of system status and user activities with optional audio alerts. Up to 10 IrisMonitor applications can be placed on one network. IrisMonitor can report many activities, including iCAM tamper detection, network communication loss, and many other system attributes.

#### Included Utility Applications



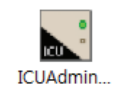
#### IrisDBAdmin

Provides backup, upgrade and merge utilities. For use with the IrisServer.



#### iCAM7000Update / iCAM7000SUpdate

Enables update of firmware in the iCAM7000 Series and iCAM7000S series respectively.



#### ICUAdmin7000-2

Enables update of firmware in the ICU 7000-2 identity controller. Review specifications and requirements as needed.



#### Client Certificate Manager

Creates and manages digital certificates for network communication security between Iris Server and iCAM7 Iris Readers.



#### Import User

A utility to import user data from a CSV text (MS Excel file). Useful for preloading user information before enrollments



#### Iris Enroll TD100

Additional enrollment application for using the iCAM TD100 for iris enrollment.

## Device Administration & Operation Mode Management

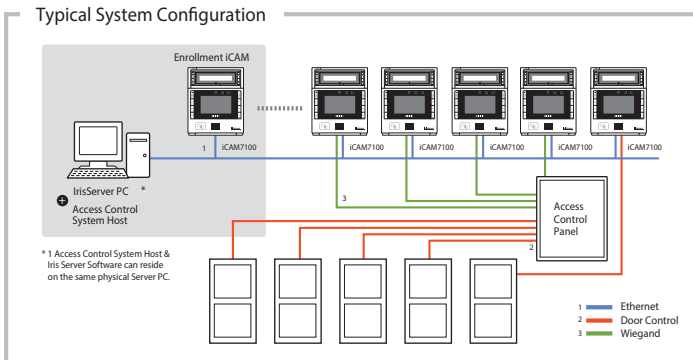
IrisAccess iCAM7 series iris readers can be configured in multiple operational modes which are selectable within the device's web "WebConfig" application.

### Available Operational Modes:

- Operational Mode 1 (Option 1): Networked iCAM Control (iris data processed on PC workstation or on an ICU7000-2 series controller)ally impossible to have a duplicate iris record entry in the system providing unparalleled accuracy.
- Operational Mode 3 (Option 3): On-Device iCAM Authentication (1:N / 1:1 and 3 factor authentication.)

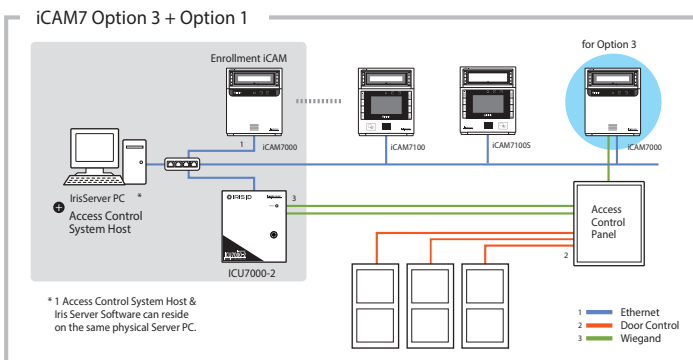
#### ■ Networked iCAM Control / Iris Image Capture Mode

The iCAM7 Iris Reader will operate as part of an IrisAccess system for enrollment or recognition when communicating with a computer using Iris Access EAC software, iData EAC Toolkit and or in conjunction with an Identification Control Unit (ICU7000-2).



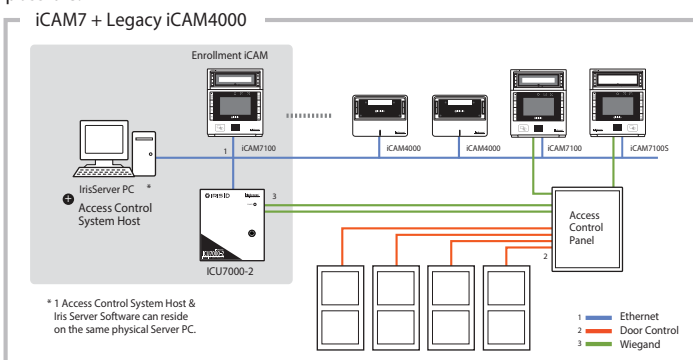
#### ■ On Iris Reader or Off Iris Reader Matching is possible

The iCAM7 series iris readers provide iris identification (biometric matching) inside the device. All iris data and PII (Personally Identifiable Information) is encrypted inside the iCAM.



#### ■ Sample Legacy Configuration

The diagram below includes the following: Enrollment iCAM in Option 1. Two iCAM4000's communicating to the ICU7000-2 for matching, and Two iCAM7 Iris Readers in option 3 Mode (on device matching). Many other configurations are possible.



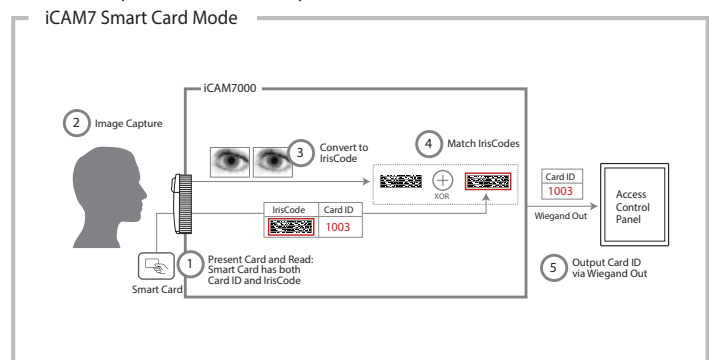
DES and 3 DES encryption options are available. The 3 DES encryption can be set by the end user. Note: The ICU7000-2 is offered as an optional solution for off device matching.

In all cases the IrisServer does not have to be online continuously. (\*Legacy iCAM4000 series units cannot perform iris matching on the device.)

iCAM7 also has an integrated relay (dry contact) and can control a 3rd party door lock controller directly.

#### ■ Using Smart Card with encoded templates and On-Device Verification Mode

The iCAM7 series iris readers can operate as complete stand-alone authentication readers. For verification (1:1 matching) of iris templates which have been encoded on contactless smart cards. The iris template data is securely stored on the contactless smart card during the enrollment process. When the card is presented to the iris reader, the encrypted templates are read from the card and are compared to the live iris presented.



The verified card ID is output to the 3rd party access control system. This operation does not require a network connection.

The iCAM7 series will support virtually any 3rd party wiegand based access

## System Requirements for iData™ IrisAccess EAC®

The IrisAccess EAC software – Iris Server, Remote Enrollment stations, remote Iris Monitor stations require a static IP address for the PC on the network.

IrisAccess EAC supports MS SQL, Oracle, and MS Access database types.

### Supported Computer Hardware Recommendations:

IrisAccess EAC Software Application and iCAM Entry Application

Operating systems – Windows 2000/XP, Windows Vista, Windows 7, Windows 8.1, Windows 10, Windows 2008 & 2012 server Pentium Compatible 1.8 (or higher) GHz Processor

1 GB or higher Memory (OS dependent) – 10 GB Hard Disk space (or greater)

CD/DVD Drive (For Software Installation) – Ethernet Port (100 Mbps recommended) Download Available

If older generation ICU4000-W (4 Channel) are being used it may be preferable to have 1 Serial Port for ICU configuration OR 1 USB 2.0 (or higher) port using a USB to Serial adapter

Legacy Support – An ICU7000-2 (Dual channel ICU) is supported. irisAccess EAC 3.10 or higher is required to use the ICU7000-2



Iris ID Systems, Inc.

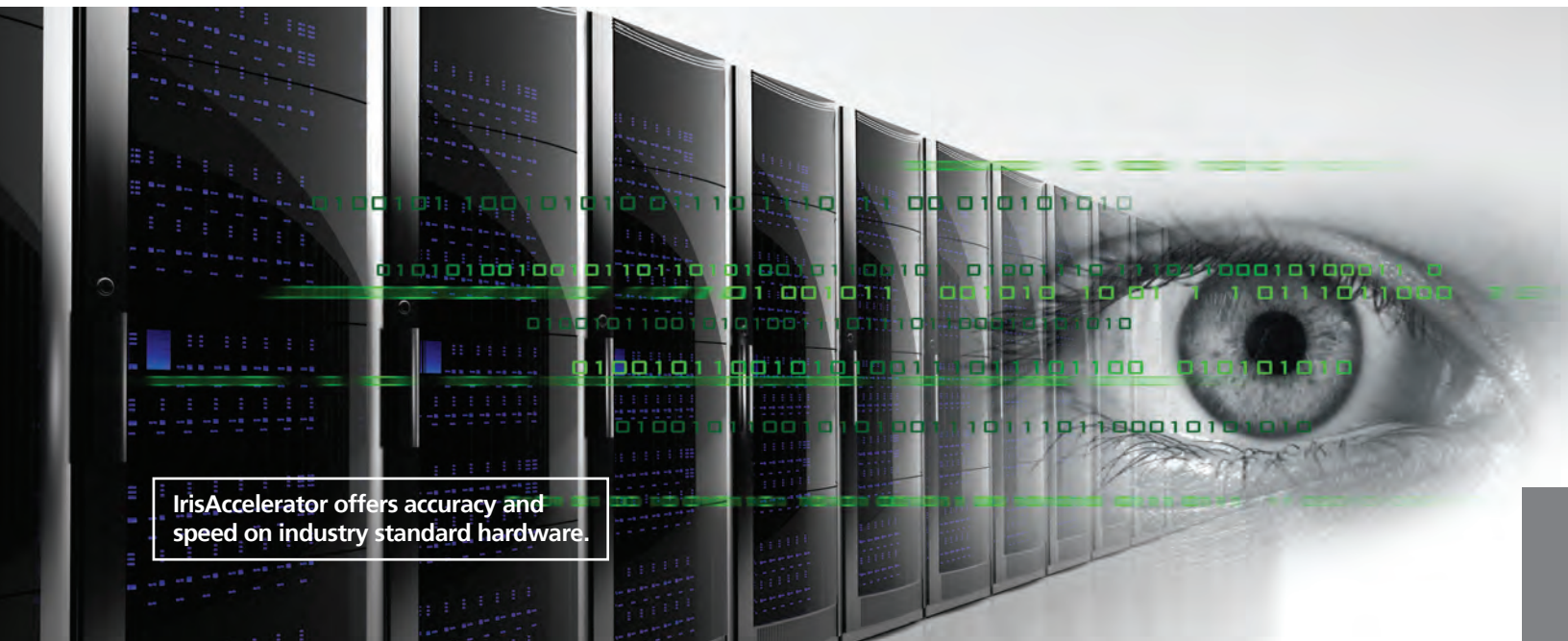
8 Clarke Drive, Cranbury, NJ 08512, USA  
Tel. 609-819-IRIS(4747) Fax. 609-819-4736

www.irisid.com

formerly LG IRIS



©2016 Iris ID Systems, Inc. All rights reserved. Design and specification subject to change without notice.



IrisAccelerator Identification System is designed for large-Scale biometric de-duplication and Identification solutions. IrisAccelerator is a system that provides a fast iris matching facility using Iris ID's technology. IrisAccelerator is configurable to support large population databases of up to 1 billion with hundreds of millions of transactions per day. The IrisAccelerator system is a cluster of servers where each server runs multiple matching engines referred to as "IrisSaber". The IrisAccelerator architecture is designed to be hardware independent. It can be deployed on a "Virtual Machine" to realize economies of scale.

## IrisAccelerator Key Product Features

- Scalability
- High Availability: (No single point of failure)
- Partial Failure Support
- Component Recovery
- Consistency
- Speculative Execution
- Supports windows and Linux
- Economies of scale

## IrisAccelerator™ system modules

- IrisAccelerator™ SDK: A software development Kit that provides the Application Program Interface to communicate with the system. This interface consists of enrollment and identification functions that can be resourced by custom applications to enroll and identify users in the IrisAccelerator™ system.
- IrisController™: The server component that manages the database of users and the IrisCodes. IrisController™ processes the IrisAccelerator™ SDK requests and is a one-point access to the IriSABRE™.
- IriSABRE™: The iris matching module that matches requests against the entire database. All enrollments and IrisCode deletions from the system are updated in the IriSABRE.



- **LoadBalancer:** LoadBalancer module is an interface between the IrisAccelerator™ SDK and the cluster of Groups in the IrisAccelerator™ system. The LoadBalancer accepts SDK requests given to the system and forwards these requests to IrisController in a "round robin" style (a process that sends its output back to the input source). This module is also responsible for adding a new IrisAccelerator™ Server into the Group, and for removing non-functioning Servers from the Group. This module has a failover protection mechanism that ensures smooth functionality of the cluster.
- **IrisAccelerator™ Configurator:** An application that provides an interface for configuring (create, delete and modify) the groups and servers in the IrisAccelerator™ system. It displays the list of groups and servers and lets the user create, delete and modify groups and servers in the IrisAccelerator™ system.
- **IrisAccelerator™ Device Manager:** Commonly referred to as "DM", the IrisAccess device Manager is an application that provides an interface for control and monitoring of the entire system. It displays the configuration of every server in the Group as well as the active and backup LoadBalancer for the IrisAccelerator™ system.

## IrisAccelerator Products

### IrisAccelerator

#### Operating System

- Red Hat Linux Enterprise Linux V6
- Memory\* – Minimum 4 GB
- HDD 500 GB Minimum

#### Database

- Oracle 11G R2
- Oracle Express
- MS SQL 2008 or greater
- Search Gallery – Virtually unlimited

### IrisAccelerator M

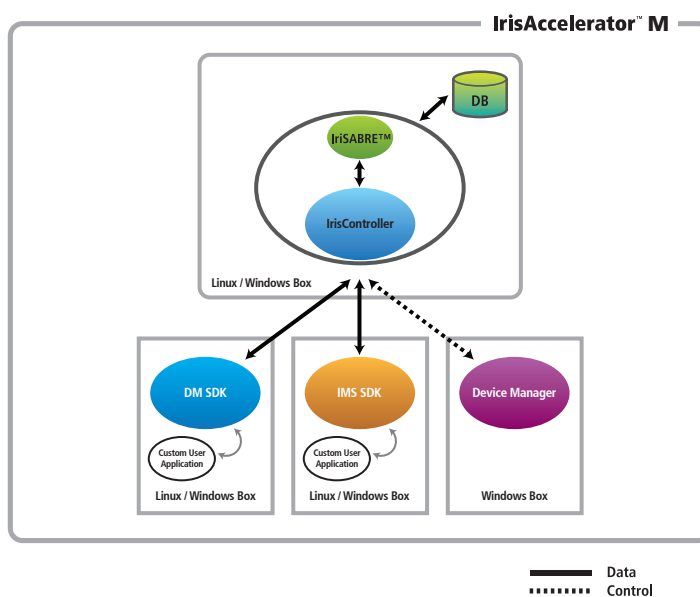
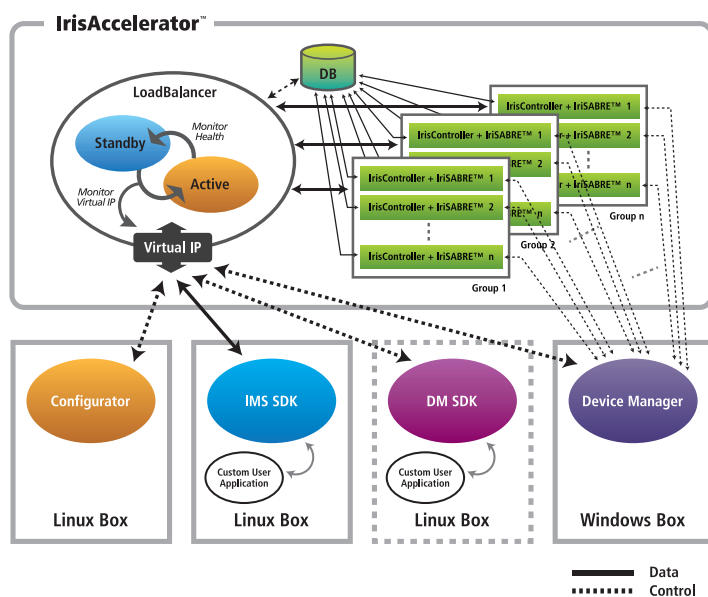
#### Operating System

- Windows Server 2008 or Higher (64 Bit)
- Memory\* – Minimum 4 GB
- HDD 500 GB Minimum

#### Database

- Oracle 11G R2, Oracle Express
- MS SQL, MS SQL Express
- Search Gallery – up to 10M

\*memory requirement dependent upon gallery size



IRIS ID AUTHORIZED RESELLER



**Iris ID Systems, Inc.**

8 Clarke Drive, Cranbury, NJ 08512, USA  
Tel. 609-819-IRIS(4747) Fax. 609-819-4736

[www.irisid.com](http://www.irisid.com)

formerly **LG IRIS**



©2013 Iris ID Systems, Inc. All rights reserved. Design and specification subject to change without notice.