iCAM TD100A
Iris & Face Recognition Camera

IRIS ID

with Protective Case

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

- 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

iCAM TD100A Model Matrix	iCAM TD100A	External 5v 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 and Siamese cable included with the iCAM TD100A.

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.
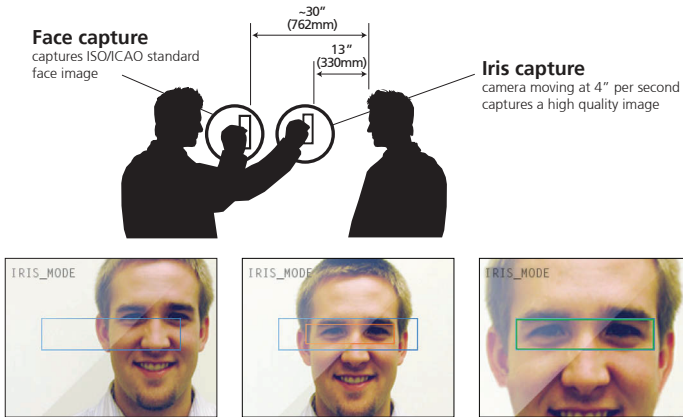
High Speed - Dual Iris capture

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.
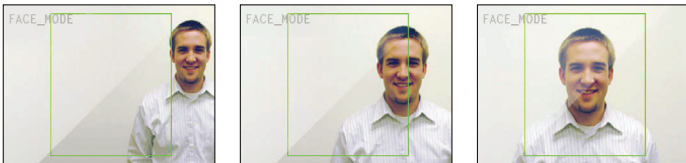
Iris Image Capture Process

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 capture
captures ISO/ICAO standard face image

~30" (762mm)
13" (330mm)

Iris capture
camera moving at 4" per second captures a high quality image

IRIS_MODE   IRIS_MODE   IRIS_MODE

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/ICAO 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.

FACE_MODE   FACE_MODE   FACE_MODE

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
- USBA3-3 Cable

PC Requirements
- Operating System: Windows® 7(32-bit) /10(32,64-bit)
- Processor: Intel i3 1.6GHz or higher
- Memory: 512MB or higher.
- Hard Disk: 5GB (Sample Applications)

Accessory
- USBA3 1.8 M USB cable (incl with iCAMTD100A-U
- USBA3-3 3.0 M USB cable (sold seperatly)
- iCAM TD100-Case -Protective Case (sold separately)

IRIS ID AUTHORIZED RESELLER

IRIS ID

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