

iCAM TD100

Iris Recognition & Face Camera



- High Speed Dual Iris Capture
- Compact and Lightweight
- Single Motion Automatic Iris and Face Capture
- Intuitive Operator Guidance System
- Standards Compliant Hardware and Software

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 TD100.

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.

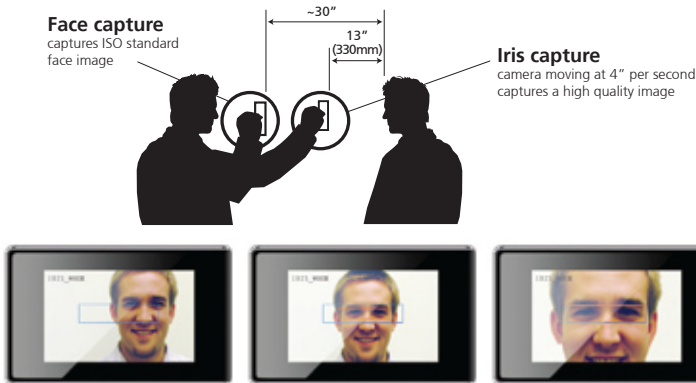
High Speed - Dual Iris capture

The iCAM TD100 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 TD100 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 TD100. 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 TD100 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 TD100.
- Sample illustrations of face capture modes are shown below.



iDATA iCAM TD100 SDK

Iris ID provides an API SDK to enable all functions of the iCAM TD100. The development environment and functionality of the SDK for the iCAM TD100 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 TD100 (Iris 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	4.5W Max
Iris Capture	Automatic Dual Iris Capture Capture Distance 330 +/- 20 mm ISO/IEC 19794-6 Standards Compliant Image High Quality
Face/Scene Capture	1600 x 1200 2MP Image Sensor - 4.62 mm @ F# 3.2
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 30" ~ 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 TD100 Standard LG sound files are loaded at a time of shipment
Video (Recording/Playback)	1600x1200, 800x600 resolution Supports H.264, H.263, MPEG4 format
Speaker	1 W Xmm dia speaker SPL specification XX @ 1 meter
LCD Display	3.5" Color LCD / 350 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
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

Interface

- High Speed USB 2.0

Equipment supplied with iCAM TD100

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

PC Requirements

- Operating System: Window® 7/Vista/XP
- Processor: Pentium® 4 1.6GHz or higher
- Memory: 512MB or higher
- Hard Disk: 5GB (Sample Applications) or higher

IRIS ID AUTHORIZED RESELLER



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