This summary page is intended to assist in hardware and software selection for Access Control and Time & Attendance systems offered from Iris ID. There are two software solutions Iris Access EAC and iCAM Entry, offered depending on the installation size and required operational requirements. Software Development Kits (SDK) are also available.

Iris ID Systems iCAM 7 Series Order Guide — 11/1/14

Hardware Options

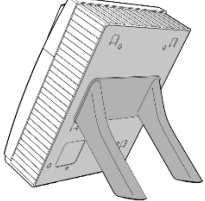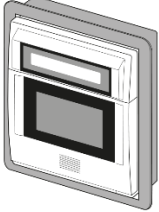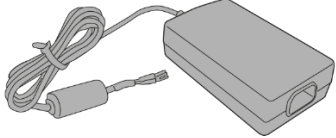| iCAM Model Order Number	LCD	Card Reader	Description
iCAM7000 (Black)	N	N	Base Model
iCAM7010-U1 (Black)	N	Y	Add HF HID Smartcard reader (iClass, MiFare, DesFire 13.56 MHz cards.)
iCAM7101 (Black)	Y	N	Add Touchscreen , 6 Function Buttons and LCD Touch Keypad "EC1" Model includes bundled iCAM Entry Software with iCAM 7101
iCAM7101EC1 (Black)	Y	N	
iCAM7101-T (Titanium)	Y	N	
iCAM7101EC1-T (Titanium)	Y	N	
iCAM7111-U1 (Black)	Y	Y	Add Touchscreen, 6 Function Buttons HID Smartcard Reader\Writer and LCD Keypad (iClass, MiFare, DesFire 13.56 MHz cards.)
iCAM7111-U1-T (Titanium)	Y	Y	
ICU7000-2	-	-	Optional Identification Control Unit – Used in instances where data and wiegand are located on the secure side of the door. Each ICU 7000-2 supports two iCAM's.

1 Year Warranty included. Extended hardware warranties are available, see price list.

All iCAM 7xxx will output wiegand data to an access panel where door open decision is made.
iCAM also has a wiegand input for connection of external Wiegand Card Readers.
All iCAM's have two (2) relays which can be used for direct control of a door strike or MAG Lock from 3ʳᵈ a party supplier.

Software Options

- Multi reader deployments (more than three) Iris ID iCAM's should use Iris Access EAC Software.
- Single Door iCAM Entry does not require any software purchase. iCAM Entry Windows PC software is included with model iCAM7101EC1. iCAM Entry will support up to three iCAM 7 Series readers.

Iris Access (EAC) Software

Iris enrollment, configuration and Central Database. Iris Access EAC SW can write iris templates to a database and smartcards. Matching iris can be in 1:1 (verification) or 1:N (identification mode / 1 to Many) 3 Factor authentication is also possible with a third party access control system interfacing with iCAM and EAC software via wiegand output. Each iCAM can be set individually.

Iris Access EAC Packages	**Iris ID EAC500**	Enrollment, configuration and matching software. User capacity 500
	Iris ID EAC2500	Enrollment, configuration and matching software. User capacity 2500
	Iris ID EAC5000	Enrollment, configuration and matching software. User capacity 5000
	Iris ID EAC xxxxxx	Larger license is available and base license can be upgraded.
	(Extended software warranties/maintenance is available, see price list.)	

- Multiple concurrent enrollment stations are supported with Iris Access EAC
- With Iris Access EAC software there is a centrally located iCAM for Enrollment. That being said any door mounted iCAM can technically be used as an enrollment camera. Door iCAMs not recommended to be used for enrollment.

iCAM Entry Software

iCAM Entry is designed for small system deployments, three or less iCAM's, 200 user capacity.
iCAM Entry allows for administrator authorized On Device Local Enrollment via the LCD screen .
The feature set of iCAM Entry is designed for SOHO environment as each reader is managed individually.

Communication & Wiring

Reader Connections	All iCAMs require a static IP address and network connection through CAT5/CAT6 Most commonly Ethernet, DC Power and Wiegand are used at each door. • All iCAMs require 12 to 24 VDC power (2 A Max @ 12vDC), • POE is possible with third party adapters. • Iris ID power supplies can be purchased and are recommended for enrollment station. • 3ʳᵈ Party power supply are often used for door cameras (Altronix, etc.). Wiegand connection also required.

ACP = Access Control Panel

IRIS ID

Accessories

Optional Accessories			
	iCAM7-ST	iCAM7 Desk stand	Desk stand for enrollment
	iCAM7-RM	iCAM7 wall recess mount	Flush mount kit
	iCAM7-PWR	iCAM7 power supply	12VDC 2 amp power supply

iCAM 7ST	iCAM 7 RM	iCAM 7 PWR
		 Power Cord is included

Administration PC Requirements

Supported Computer Hardware Recommendations: Iris Access EAC Software Application and iCAM Entry Application
- Operating systems - Windows XP, Windows Vista, Windows 7, Windows 8.1
- Pentium Compatible 1.8 (or higher) GHz Processor
- 1 GB (or higher) Memory - 10 GB Hard Disk space (or greater)
- CD-Rom Drive (For Software Installation) - Ethernet Port (100 Mbps recommended).
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 ICU 7000 (Single channel) and iCU7000-2 is supported when using iCAM 4000's. 1 ICU 7000 per 1 iCAM 4000 ratio. EAC 3.10 or higher is required.

Software Quick Comparison

iCAM Entry Application– (Entry Level)
Designed for small systems – Up to 3 iCAM Iris readers.
No Software purchase required for managing three (3) iCAM Iris readers.
A very simple application for enrollment and administration in a small office environment (SOHO).
Ideal Starter System With a single reader enrollment directly on the device at the door. (Security code entered on the LCD display) *This function can be securely disabled..*
Rudimentary data distribution between the three (3) connected devices using the included PC application.
Single screen GUI – easy to learn and use for the non-technical user.
Support for Iris only or Iris + Card, and Iris Or Card
Database is only in the reader(s), however data can be backed up and restored to devices.
Support for time groups.
Single Admin user account

Iris Access EAC Software Application (Enterprise)
Designed for larger systems – up to 128 centrally managed readers
Client Server Based – Multiple enrollment stations are supported.
Support for Iris only or Iris + Card or Iris + Card + Pin
On device enrollment NOT supported – additional device in command and control is used for enrollment
Ideal for Large Scale High security environment
Central Database - Support for SQL, Oracle, MS Access
Easily Supports multiple card formats in the enterprise, Corp 1000, etc.
Supports Smart Card Creation (Iris Templates on cards- no central DB is optional, not required)
Sophisticated management of readers and groups and distribution of iris data to the readers, access rights, etc.
Multiple Admin and user accounts (tracking of enrollments and system access by users)
iDATA Toolkit API for integration with other systems (HR, Time & Attendance, Campus, etc.)

ACP = Access Control Panel

IRIS ID

Features and Benefits Comparison - iCAM Entry compared to Iris Access EAC

Iris Access EAC and iCAM Entry Application Technical Function Comparison

Feature/Function	Iris Access EAC	iCAM Entry	Notes
Database	***Centralized***	***On Device - B/U provided***	iCAM Entry : DB is on each Iris Reader, Backup and restore is available each individual device.
	SQL, Oracle, MS Access	Backup/Restore function	Iris Access EAC - Backup and restore via Iris Server and Iris DB Admin applications.
Log Export	Yes	Yes	Filtering is available for both applications. Iris Access EAC has finer granularity.
Time & Attendance OSD Punch Function	Yes	Yes	Available on iCAM 71xx model with LCD
Automatic user data distribution to Iris Reader	Yes	Limited Function*	* iCAM Entry can distribute data to other Iris Readers manually through the include Windows application. Iris Access EAC is robust and will automatically distribute user data to a predetermined set of iris reader groups.
De Duplication Screen during Enrollment	Yes	Yes	Iris ID Identity Check fraud screen
On Device Enrollment	No	Yes (Option to enable)	iCAM Entry Iris Reader (iCAM71XXEC1) can enable this function in the WEB Configuration of the ICAM of *each* iCAM 71XX device individually. Local Iris Reader enrollments are not redistributed automatically. iCAM Entry application can move enrollments from on device to another (of three devices).
Support for Multiple card formats (concurrently)	Yes	No* (limited)	No - Requires conversion of Card ID to a Hexadecimal Format
Corporate 1000 Card Format Support	Yes	Yes	iCAM Entry support a single Corporate 1000 format , Iris Access EAC can support multiple Corp 1000 formats.
Smartcard Issuance	Yes	No* (limited)	iCAM Manager application in iCAM Iris reader can read smartcard – cannot not write them.
Multiple User/Admin Accounts	Yes	No	
API For Integration	Yes - IData ToolKit	Yes - iCAM Manager SDK*	iCAM Entry is built on top of iCAM Manager SDK. iCAM Entry cannot run concurrent with iCAM Manager SDK. Each iCAM Device supports a single host connection. When iCAM Manager SDK is used iCAM Entry cannot be connected to iCAM Entry at the same time.
User List Import	iData Toolkit	CSV File	
User Import – Merge	Yes - Iris DB Admin	Yes	
Support for Reader groups	Yes	Yes	Iris Access EAC supports both Reader groups and Time Groups.
Support for Time groups	No	Yes	iCAM Entry supports time groups by each reader, no multiple reader grouping, only individual reader control
Sophisticated management of readers and groups and distribution of iris data to the readers, access rights, etc.	Yes	Limited Function*	iCAM Entry can control user privileges based on time group rules set in each individual Iris reader
Single Screen GUI	No	Yes	Iris Access EAC has multiple applications - Iris Server, Iris Enroll, Iris Manager, Iris DB Admin
Application Learning Curve (Training Time)	Up to 6 Hours Complex application	Less than one hour Simple GUI	

Iris Access EAC Software current release is version 3.10

Iris Access EAC is backwards compatible with IrisAccess4000 / IrisAccess7000 Series hardware.

iCAM Entry Application software only supports iCAM 7 Series devices.

ACP = Access Control Panel

IRIS ID

iCAM 4000 Series End of Life 2013

Legacy Support: IrisAccess7000 and IrisAccess4000 are compatible.

Iris ID iCAMs with EAC software can work in several modes and send wiegand to an ACP*

iCAM 4000 Requires using an ICU 7000-2 or a ICU4000 (discontinued)

- 1:N mode where the iris database is stored on server and on iCAM. Only iris is used for authentication. Database size can be up to 100 thousand with Iris Access EAC.
- 1:1 mode using a card or pin as a verifier with Iris (Pin known to iCAM).
- 1:1 mode using a card that can store iris data written to the smartcard directly.
- 1:1:1 3 Factor mode : Card+Iris+Pin for example where the access panel would be set to "Card+Pin". Card+Iris would match and output card # to ACP, and then a PIN is output to the Access Panel which is waiting for pin. In this case Pin is known only to the ACP, and not the iCAM.

  - External card readers (125khz low frequency or high frequency 13.56 MHz card readers can also be connected to the IrisAccess 7 Series models via the wiegand input.
  - Wiegand inputs and Wiegand outputs are included on all iCAM7 models.
  - Built in LCD "ten key" keypad on the iCAM 7 models can send a pin number via 8 Bit burst, 4 Bit burst or as a formatted Card ID to the Wiegand ACP panel.

End

ACP = Access Control Panel