LG
Advanced Identity Authentication™

IrisAccess™
Advanced Identity Authentication

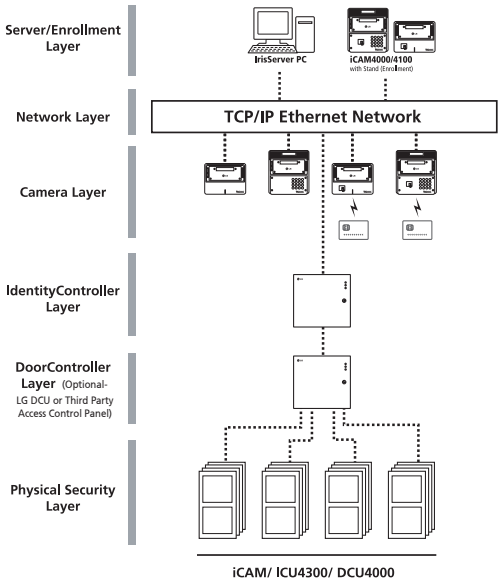
Technical Specifications

System Configuration

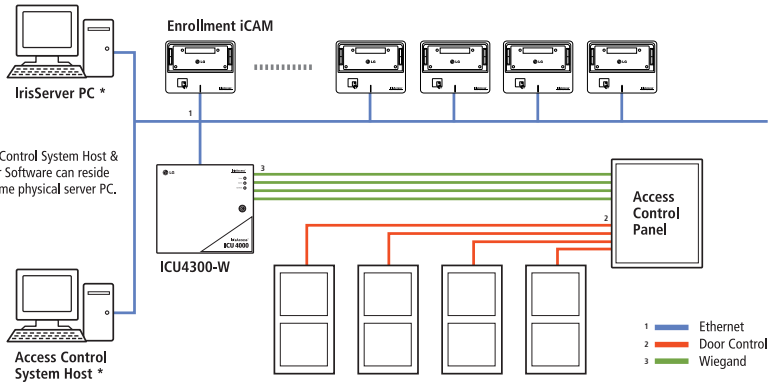
IrisAccess™ 4000 consists of iCAM4000/4100, ICU4300, DCU4000 and IrisServer PC. (ROU3000/EOU3000 are no longer available.)

Complete backward compatibility

* ICU4300 is a dual-purposed control unit that can be configured for either legacy LG IrisAccess™ 3000 systems or the latest IrisAccess™ 4000 series.



Basic Configuration



Specifications & Dimensions

iCAM4000/4100 (IrisCamera)

	iCAM4000	iCAM4100
Dimensions (W x H x D)	8.6" x 6.5" x 3.2" (218mm x 164mm x 80mm)	8.6" x 9.3" x 3.2" (218mm x 235mm x 80mm)
Weight	4.4lbs (2kg)	4.8lbs (2.2kg)
Power Input	12VDC @ 2.5 A MAX, +/- 10%	
Power Consumption	40W (This maximum power consumption rating shoul be used if a 3rd party power supply is used for the iCAM.)	
Included Power Supply	Input: 120-240V AC at 1.5 Amps / Output: 12 V DC, 5 Amps max	
LED Indication	Power (blue), Operating Range (green), Out of Range (orange), Accept (green blink), Reject (orange blink)	
Voice Indication	Flexible Voice Message (English: standard, Other Language: downloading available)	
Operating Range	10.2" ~ 14.2" (26cm ~ 36cm)	
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)	
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)	
Humidity	0% to 95% Non-condensing	
Rotation Angle	+35°/-25°	

Interface
• Ethernet • USB • ProximityCard Reader (Wiegand & RS-422) • SmartCard Reader

Equipment supplied with iCAM4000/4100
• AC Power Cable • AC Power Adapter • Straight Ethernet Cable

ICU4300 (IdentityController)

	ICU4300 (supports both IrisAccess™ 3000 and 4000)		
Dimensions (W x H x D)	16.9" x 16.5" x 6.4" (430mm x 420mm x 163mm)		
Weight	12lbs (5.5kg)		
Power Input	19VDC, 1.5A nominal, 2.0A max	Operating System	Linux
Power Consumption	38W max	LED Indication	Power (green), Status, Network
CPU	x86 Compatible	Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Memory	DDR 256MB	Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage	HDD 2GB	Humidity	0% to 95% Non-condensing

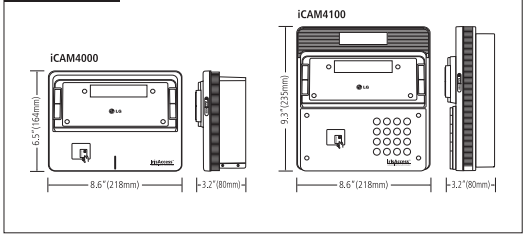
* ICU4300 supports both LG IrisAccess™ 3000 and LG IrisAccess™ 4000 series products. Orders MUST include system configuration spec. If Wiegand interface is not used for portal control, a DCU is needed. Please see www.lgiris.com

** If you use a power supply other than the included one, be sure to note the output current and voltage specification of the included power supply for the input supply requirements of the ICU4000\ICU4300.

Interface
• Ethernet • SmartCard Reader (Wiegand & RS-422) • RS-232/422 Selectable for DCU4000 Interface

Equipment supplied with ICU4300
• AC Power Cable • AC Power Adapter • Straight Ethernet Cable • Key

Dimensions



DCU4000 (DoorController)

Dimensions (W x H x D)	16.9" x 16.5" x 6.4" (430mm x 420mm x 163mm)
Weight	12lbs (5.5kg)
Power Input	19VDC, 4.74A
Power Consumption	750mA at 19V DC
LED Indication	Power (green), Status1, Status2
Operating Temperature	32°F ~ 104°F (0°C ~ 40°C)
Storage Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Humidity	0% to 95% Non-condensing

Interface
• ProximityCard Reader (Wiegand & RS-422) • GPIO (Door Control, Egress, Alarm etc)
• Dry Contact Relay (Door Control)

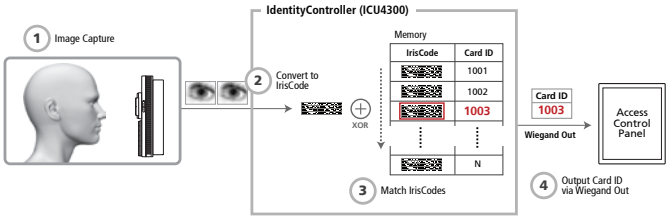
Equipment supplied with DCU4000
• AC Power Cable • AC Power Adapter • Key

IrisServer PC Requirements

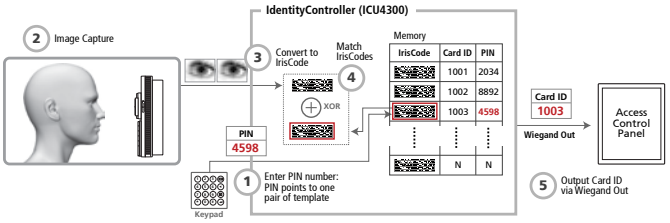
Operating System	Windows® 2000, Windows® XP
Processor	Pentium® IV 1.6GHz or higher
Memory	512MB or higher
Hard Disk	10GB or higher
Ethernet	10/100Mbps Full Duplex
Other	1 Serial Port, CD-ROM, PCI Slot Full-Height Half-Length for Frame Grabber Board (IrisAccess™ 3000 only)

Operation Modes

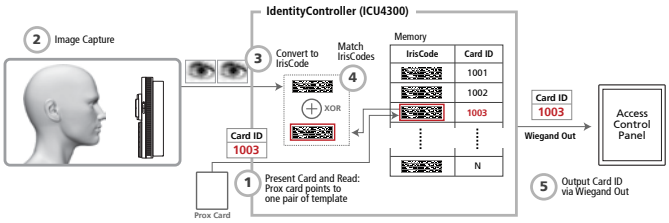
Iris in the 1:N search identification mode



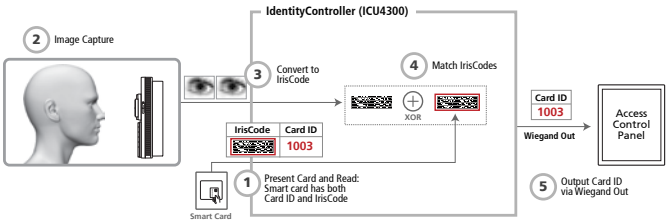
Iris in the 1:1 verification mode with a PIN



Iris in the 1:1 verification mode with a prox card



Iris in the 1:1 verification mode with a smart card



Installation Information

LG IrisAccess is designed for interior wall mounting, but has also been used in kiosks and integrated into housings on or built into special machinery. Information included here details the proper placement of IrisAccess 4000 series for optimal use and user convenience in an access control environment. Because in many cases, users of IrisAccess 4000 series product have upgraded or expanded beyond a previously installed IrisAccess 3000 system, information for placement of the IrisAccess 4000 series iCAM4000 and iCAM4100 models is presented in context with IrisAccess 3000 mounting information. Information provided in Figure 1 below specifies both the recommended distance between the bottom of the camera mirror from the floor, as well as particulars regarding placement of the camera housing in relation to the floor. Figure 2 provides information regarding preparation of the area in which the camera is to be mounted. Figure 3 shows mounting prep depth requirements with flush mount to wall.

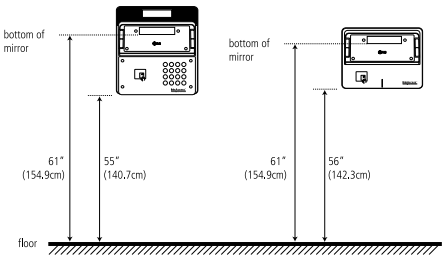


Figure 1

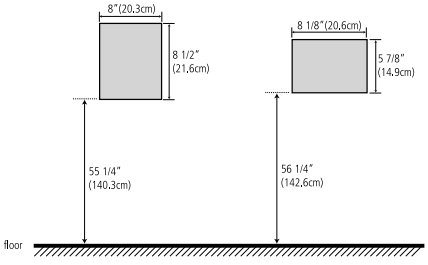


Figure 2

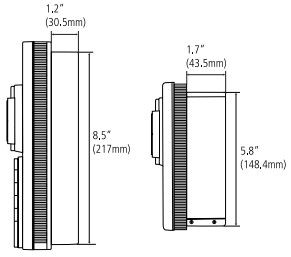


Figure 3

External Use of LG IrisAccess

While not designed for exterior use, many customers have successfully deployed IrisAccess outdoors. Perhaps the most critical factor impacting successful outdoor placement is deploying the iCAM unit so the challenge the sun poses to system optics is minimal. That accomplished, think about how to protect the unit from the elements. Some have had success with NEMA boxes. Others have used partial and full enclosures reminiscent of public phone booth design. For use by particularly rough characters, we've even heard of installing IrisAccess behind bulletproof glass. (That requires de-activation of the proximity sensor and adding a button to activate the camera, and deprives users of the swivel height-responsive control mechanism but it does gives you an idea of how important IrisAccess is to some of our customers.) LG's own offices have one installed in the elements under a bit of an overhang. Then again, we're more interested in finding out just how much of the elements iCAM will tolerate, and, since we wrote it, understand the part about outdoor use voiding the warranty.

Eye Safety

LG's heritage as a designer and manufacturer of high quality consumer electronic products is reflected in the utility, intuitiveness, human factors engineering and concern for safety that is part of the LG design and innovation process in iris recognition. IrisAccess system electrical and electronic design meets or exceeds US and International code requirements. The optics and subtle illumination produced by LG IrisAccess has been thoroughly tested found to fall well within UL and ANSI eye safety standards. It has also been tested and approved for eye safety by other parties in the public and private sector.

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