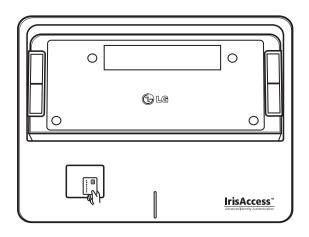
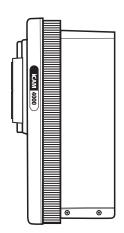




iCAM 4000Quick Start Guide





FOR MODEL NUMBERS: iCAM4000

iCAM4000 iCAM4000R iCAM4010-E1 iCAM4010R-E1 iCAM4010-H1 iCAM4010R-H1

COPYRIGHT © 2007 LG ELECTRONICS USA INC, ALL RIGHTS RESERVED.

LG IrisAccess™ 4000: iCAM4000 Quick Start Guide

The content of this document is furnished for informational use only, is subject to change without notice, and should not be construed as a commitment by LG Electronics USA Incorporated. LG Electronics USA Incorporated assumes no responsibility of liability for any errors or inaccuracies that may appear in the informational content contained in this document. Please remember that existing images or drawings that you may want to include in your document may be protected under copyright laws. The unauthorized incorporation of such material into your work could be a violation of the rights of the copyright owner. Please be sure to obtain any permission required from the copyright owner.

LG, LG Iris, the LG logo, LG Iris logo and IrisAccess are either registered trademarks or trademarks of LG Electronics Incorporated in the United States and/or other countries. LG Electronics USA Incorporated, Iris Technology Division. 7 Clarke Drive, Cranbury, New Jersey 08512, USA.

Document Number: DV002Q501 (07/07)

1 Packing List

What's in the box

- iCAM4000 IrisCamera
- Power Adapter

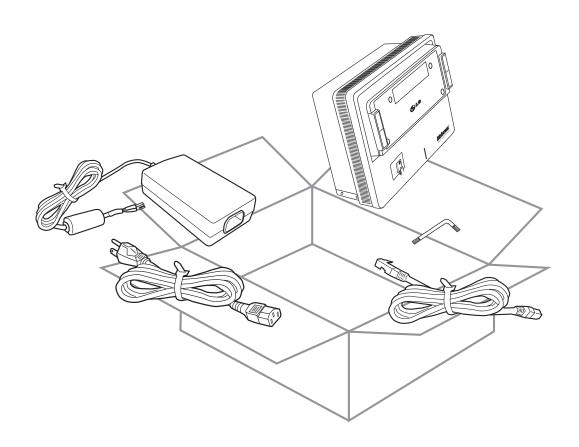
Input: 110~240V AC - 1.5AMP 50/60Hz

Output: 12V DC - 5.0AMP

- Power Cable for 110V
- CAT5 Ethernet Cable
- Quick Start Guide
- Security Screw Wrench

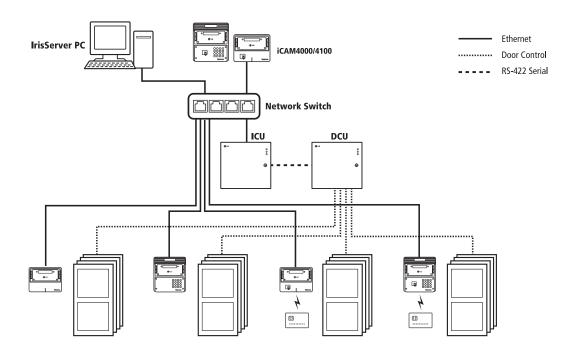
Required Equipment (not included with iCAM4100)

- Server Computer (refer to the Hardware Manual for details)
- Ethernet Switch
- Ethernet Wiring
- Uninterruptible Power Supply





iCAM4000 in the IrisAccess System



The iCAM4000 is a two-eye iris camera used to capture the iris images of the user. The iCAM includes an alignment indicator behind the mirror and voice prompts to assist the user. When used in a typical access control application, the iCAM will be placed near the secured portal and provides the means for the system to identify the user requesting entry.

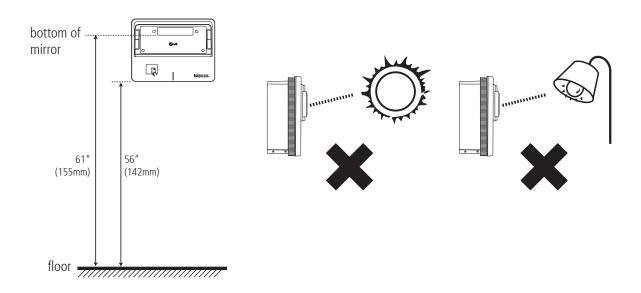
The iCAM can be used in enrollment mode using the IrisEnroll application (included with EAC software) or recognition mode when it is configured for use with an ICU. The iCAM can not easily be switched between enrollment and recognition modes once configured.

The iCAM can be wall mounted or used with an optional desk-top stand (cradle).

iCAM4000 Model Variations

	Base Model		Smartcard Reader	
		RoHS compliant	HID iClass	IE Smart-ID
iCAM4000	•			
iCAM4000R	•	•		
iCAM4010-E1	•			•
iCAM4010R-E1	•	•		•
iCAM4010-H1	•		•	
iCAM4010R-H1	•	•	•	

Installation Requirements



- The recommended mounting height for the iCAM4000 is 142cm (56 inches) from the floor to the bottom of the unit. This mounting height can be adjusted to accommodate the height of the average user at the installed location.
- High amounts of ambient light must be avoided. Intense light sources such as sunlight or halogen lamps may reduce the image capture performance of the iCAM, this may result in an increased "failure to acquire" rate.
- The iCAM is not weatherproof and must not be exposed to precipitation or extreme temperatures. An enclosure may be used to protect the unit if required. See www.lgiris.com Support & Service for more information.
- All system components including the Ethernet network must be powered through Uninterruptible Power Supplies (UPS). UPS must provide power line filtering as well as power back-up operation.
- Each IrisAccess™ system component on the Ethernet network system must have a unique manually assigned IP address.

The iCAM4000 requires at least the following wires:

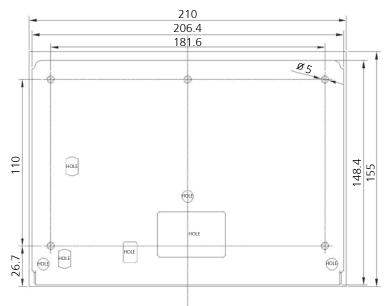
- Ethernet network wiring to connect with the network switch to communicate to the IrisServer or an ICU.
 - * Note: For systems consisting of only an IrisServer and iCAM may use an Ethernet crossover cable to connect the iCAM directly to the IrisServer computer.
- Power (12VDC +/-10% and 2.5Amps MAX)

IMPORTANT: IT IS RECOMMENDED TO USE THE POWER ADAPTER SUPPLIED WITH THIS PRODUCT. AN OVER OR UNDER VOLTAGE APPLIED TO THIS PRODUCT MAY CAUSE PERMANENT DAMAGE AND VOID THE WARRANTY.

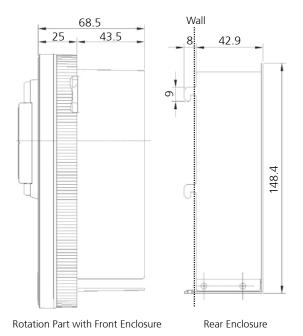


iCAM4000 Installation

- 1. Remove the two security screws (use included security bit wrench) from the bottom of the iCAM
- 2. While gently pulling the cover upward on the back plate, pull forward.
- 3. Position the iCAM back plate on the desired wall near the secured door and mark the holes as the figure below illustrates. The recommended height from the floor to bottom of unit is 142cm (56"), however the installation height can be adjusted depending on average user height.



Dimensions and Screw Holes on the Rear Enclosure

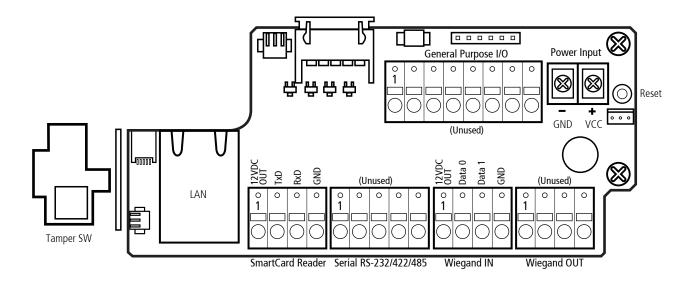


Dimensions of iCAM4000 (mm unit)



iCAM4000 Installation (cont'd)

- 4. When recessed mounting, leave 6mm (1/4") of extra space above the marked hole so when mounting the back plate it allows the iCAM to slide down onto the installation plate tabs.
- 5. Route the power line, network line, and other necessary cables through the back plate hole.
- 6. Use the appropriate fasteners for the material in which the iCAM will be mounted, secure the back plate.
- 7. Attach the wires from the 12VDC power supply to the screw terminal connections. The +12VDC (white wire) power connects to the + (positive) terminal, whereas the 12VDC ground (black wire) connects to the (negative) terminal.
- * Note: If it is required to extend the length of the wires from the power adapter to the iCAM, refer to the www.lgiris.com support web site for details.
- 8. Connect the CAT5/RJ45 network wire into the LAN port (CN10) of the iCAM. Make sure that the RJ45 connector locks securely into the LAN port.



- 9. Wiegand device such as proximity card reader and smart card readers may be connected to the iCAM through the Smartcard or Wiegand In connections. Refer to the 4000 Hardware Manual for connection details. (Note: Only the Smartcard [serial] and Wiegand input interfaces are active with the current iCAM versions)
- * Note: The iCAM4010-H1 and iCAM4010-E1 are supplied with a smart card reader already wired and installed.
- 10. Close the front cover and gently slide the iCAM downwards over the back plate. Fasten with two security screws on the bottom of the unit.
- * Note: The iCAM includes two tamper switches. One switch is located on the rear of the iCAM to detect removal from the wall or enclosure from which it is installed. A second tamper switch is located behind the front plate to detect tampering with the front of the unit. During installation be sure that the rear tamper switch is in a position which can detect unit removal from the wall or enclosure.

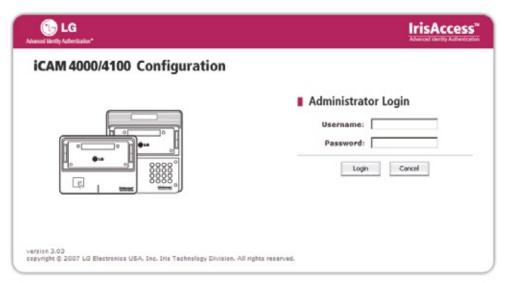


iCAM4000 Configuration

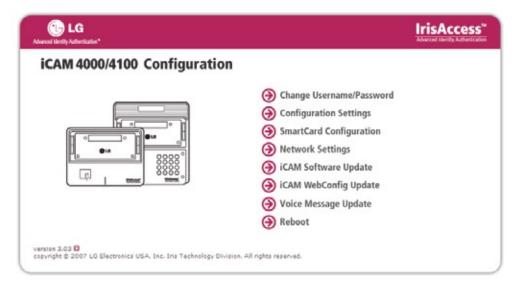
Changing the IP Address of the iCAM

- * Note: The IP Address of each iCAM must be changed individually. Do not connect more than one un-configured iCAM to the network at any one time to avoid IP Address conflicts.

 Any computer with a web browser which supports graphics (ex. Internet Explorer) can be used to configure the iCAM4000/4100.
- 1. Set the computer to the static IP of 192.168.5.1 subnet 255.255.255.0
- 2. Open the web browser and enter http://192.168.5.100 in the address bar then press ENTER. The iCAM login screen will appear.
- 3. Enter the default Username: iCAM4000 and Password: iris4000 (both are case sensitive)



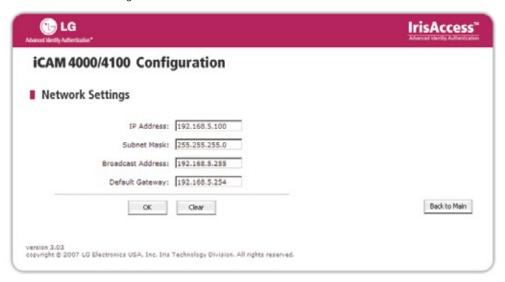
4. The iCAM Configuration Main Menu will appear.





iCAM4000 Configuration (cont'd)

5. Select Network Settings.



- 6. Enter the new IP address for the iCAM (default = 192.168.5.100)
- 7. Enter the new Subnet Mask for the iCAM (default = 255.255.255.0)
- 8. Enter the new Broadcast Address for the iCAM (default = 192.168.5.255)
- 9. Enter the new Default Gateway for the iCAM. (default = 192.168.5.254)
- 10. Click OK to save changes and to open network settings verify screen.

If the new iCAM IP address is still on the same subnet as the computer:

- after 10 seconds the web browser will resolve to the new IP address and the login screen will appear again.

If the new iCAM IP Address is on a different subnet:

- the web browser will display the standard "The page cannot be displayed" message.

To test the IP Address change, perform a ping to the new IP Address.

- 1. Click on Start (in the Windows task bar)
- 2. Select Run
- 3. Type cmd
- 4. Press Enter
- 5. At the command prompt type: ping <new IP> (ex. ping 192.168.5.120)
- 6. Close the command prompt window.

If changing the IP Address to multiple iCAMs

- * Note: After each iCAM configuration the arp cache on the computer must be deleted.
- 1. Click on Start (in the Windows task bar)
- 2. Select Run
- 3. Type cmd
- 4. Press Enter
- 5. At the command prompt type: arp -d
- 6. Close the command prompt window.
- 7. Connect the next iCAM to be configured on the network and perform the configuration to the next iCAM.

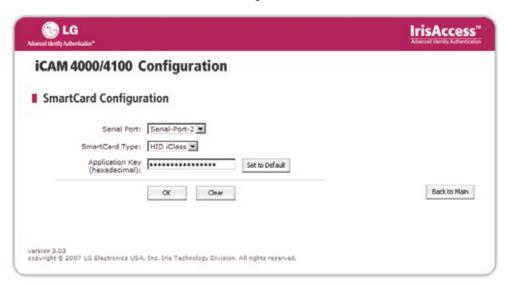
iCAM4000 Configuration (cont'd)

Once all iCAMs have been configured

Once all iCAMs have been configured, the computer IP Address can then be changed back to its original IP Address or to the new IP Address as required to communicate to the rest of the IrisAccessTM system.

SmartCard Integration

- The iCAM4010-E1 and iCAM4010R-E1 have a built-in Integrated Engineering Smart ID smart card reader, and the iCAM4010-H1 and iCAM4010R-H1 have a built-in HID iClass smart card reader.
- The only configuration to the iCAM for smart card support is to enter an "Air-link" Encryption key or Application key. This key is used to lock / unlock access to the smart card data. Once changed the iCAM will write all cards with this key (enrollment) and will only be able to read cards with this key (verification).
- To configure the smart card key; log into the iCAM configuration interface (see "Changing the IP Address of the iCAM" in section 6).
- From the main menu select "SmartCard Configuration".



- Leave the "Serial Port" selection as Serial-Port-2.
- Select the "Smart Card Type"; HID iClass (iCAM4010-H1), MIFARE, or Smart ID (iCAM4010-E1).
- Enter the Application Key (Air-Link Key) in Hexadecimal format.
- * Note: "Set to Default" will reset the Application Key to the HID iClass default.
- OK must be clicked for the changes to be entered.
- To complete the smart card integration in the IrisAccess system, the IrisServer, IrisEnroll software and ICUs must be configured. Refer to the 4000 Smart Card Integration document located on the EAC software CD for more information.



Technical Support

Additional information and Technical assistance is available on the LG Electronics — Iris Technology Division's support web site at **www.lgiris.com**, click on **Support & Service** then **Technical Support**.

Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com