

# iCAM7000 (IrisAccess): Setup, Troubleshooting & Informational Guide

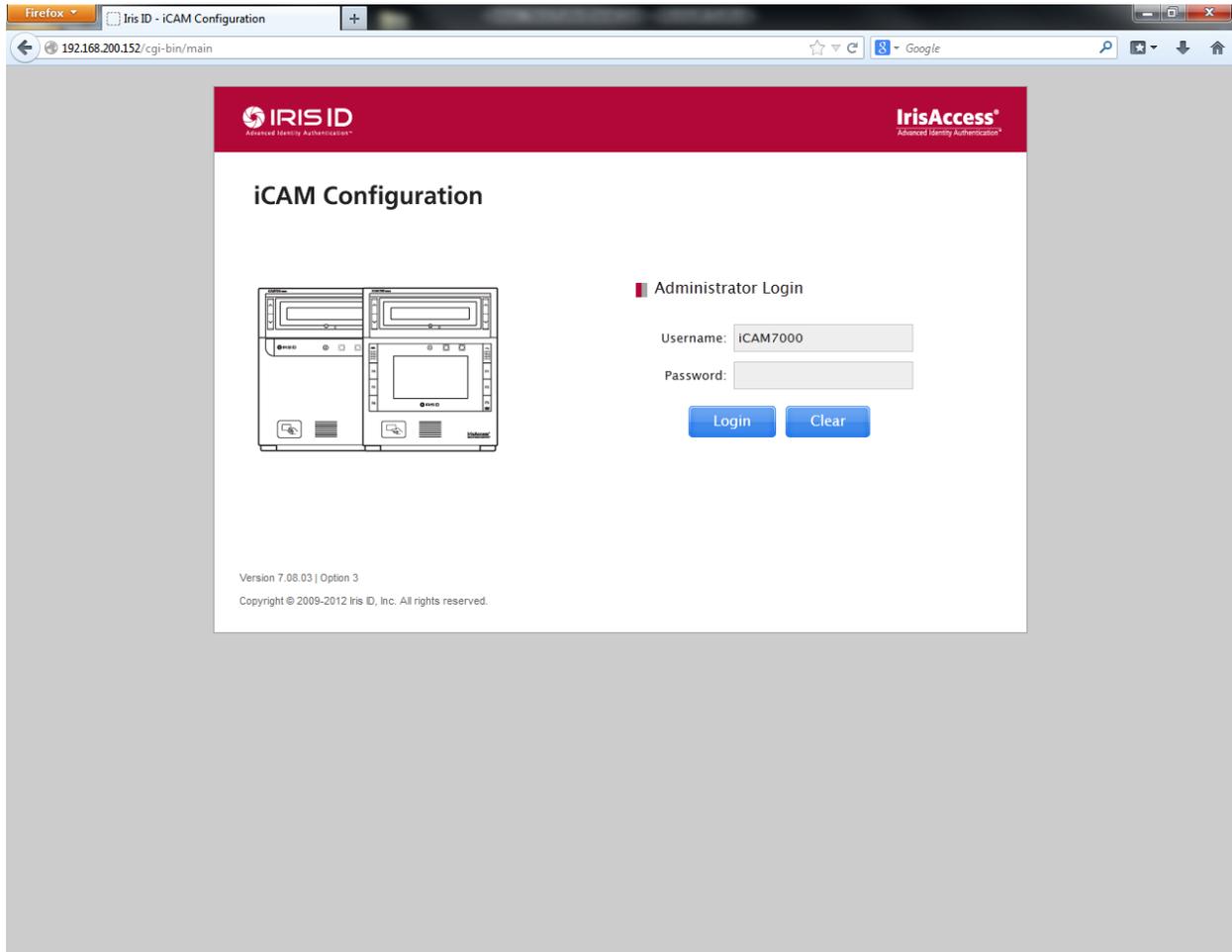
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## Steps on how to setup and configure iCAM7000 devices.

### 1. Log into the iCAM7000 using:

Username: iCAM7000

Password: iris7000



The screenshot shows a Firefox browser window displaying the iCAM7000 Administrator Login page. The browser's address bar shows the URL `192.168.200.152/cgi-bin/main`. The page features a red header with the **IRIS ID** logo on the left and the **IrisAccess** logo on the right. The main content area is titled **iCAM Configuration** and contains a technical drawing of the iCAM7000 device on the left. To the right of the drawing is the **Administrator Login** section, which includes a **Username:** field with the value `iCAM7000` and a **Password:** field. Below these fields are two blue buttons labeled **Login** and **Clear**. At the bottom left of the page, the text reads:   
Version 7.08.03 | Option 3  
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2. For Wiegand verification choose Option 3 and enter information into the requested information into the form. This information is not important it just needs to be filled in like below.

The screenshot shows the 'iCAM Configuration' web interface. At the top, there are logos for 'IRIS ID' and 'IrisAccess'. The main heading is 'iCAM Configuration'. Below it, there is a section for 'Operational Mode' with three radio button options:

- Option 1: Networked iCAM Control / Iris Matching Mode [See Diagram](#)  
iCAM functions and iris matching controlled by networked software or devices. Supported by IrisAccess EAC software (IrisEnroll4000 or ICU4000), or with iData SDK software (iCAM4000 series compatibility).
- Option 2: Smart Card On-Device Verification Mode [See Diagram](#)  
The iCAM operates as a stand-alone device for verification (1:1) of iris templates on a smart card. For use with iData CMA and/or pre-existing smart cards with iris templates created by IrisAccess EAC or 3rd party applications.
- Option 3: On-Device iCAM Control and Iris Matching Mode [See Diagram](#)  
iCAM is controlled and iris matched inside the iCAM. Provides function of ICU within the iCAM. For use with IrisAccess EAC software only.

Below the options, there are two input fields:

IrisServer IP:

Security ID:

Action on failure of DB Sync with IrisServer:

- Restore local DB in device to previous copy
- Put device into error state and disconnect from IrisServer (Device automatically reconnects to IrisServer and DB Sync is performed again)

At the bottom, there is a checkbox:  Display initial start-up screen at next login

Buttons: 'OK', 'Cancel', and 'Back to Main'.

Footer: Version 7.08.03 | Option 3  
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**\*\*\*\*\* VERIFY FIRMWARE ON UNIT\*\*\*\*\***

The unit should be on at least firmware version 7.08.03 in Option 3. This firmware can be obtained from Lenel Technical Support and IrisAccess Technical Support.

### 3. Configure your IP in the Network settings.

The screenshot shows a web browser window with the address bar displaying `192.168.200.152/cgi-bin/updatesnetworksettings`. The page title is "Iris ID - iCAM Configuration". The interface features a red header with the "IRIS ID" logo on the left and the "IrisAccess" logo on the right. The main content area is titled "iCAM Configuration" and contains a section for "Network Settings".

**Network Settings**

IP Address:

Subnet Mask:

Default Gateway:

Enable IP announcement

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IrisServer IP:

Security ID:

---

Action on failure of DB Sync with IrisServer:  Restore local DB in device to previous copy  
 Put device into error state and disconnect from IrisServer (Device automatically reconnects to IrisServer and DB Sync is performed again)

Version 7.08.03 | Option 3  
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## 4. Set the iCAM Settings.

The screenshot shows a web browser window with the address bar displaying `192.168.200.152/cgi-bin/iCAMConfig`. The page title is "Iris ID - iCAM Configuration". The interface features a red header with the "IRIS ID" logo on the left and the "IrisAccess" logo on the right. The main content area is titled "iCAM Configuration" and contains a section for "iCAM Settings".

The settings are as follows:

- Recognition Mode:** A dropdown menu is set to "Iris + Smart Card \*". A note indicates "(\* PACS PIN Mode available - 7100 Only)". Below this is a checkbox for "Use entire Wiegand-In bitstream as Card ID", which is currently unchecked.
- Verification Time Out:** A text input field contains the value "5", followed by the text "sec (1~30)".
- Auto Tilt in Verification Mode:** Two radio buttons are present: "Enable" (which is selected) and "Disable".
- Power Save:** A dropdown menu is set to "Never". Below it is a checkbox for "Turn off LCD when in power save mode (7100 only)", which is unchecked.
- Eye Selection:** A dropdown menu is set to "Right".
- Countermeasure:** A dropdown menu is set to "Level 1".
- Sound Volume:** A dropdown menu is set to "4". A note indicates "(0~10, 0=Mute)".
- iCAM Tamper:** A checkbox for "Detect iCAM tamper" is currently unchecked.

At the bottom of the settings area, there are three blue buttons: "OK", "Set to Default", and "Cancel". To the right of these buttons is a red button with a left-pointing arrow and the text "Back to Main".

At the bottom left of the page, the following text is displayed:

Version 7.08.03 | Option 3  
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## 5. Set the Wiegand Settings

Firefox Iris ID - iCAM Configuration  
192.168.200.152/cgi-bin/wiegandsettings

### Wiegand Settings

**Wiegand In**  
Wiegand In: Enabled

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**Wiegand Out**  
Wiegand Out: Enabled  
Format: Typical Format  
Active State: Low  
Pulse Duration (30~100): 40  $\mu$ sec  
Bit Period (1000~6000): 2000  $\mu$ sec  
Total Wiegand Bits (26~200): 26  
Start Parity: Even  
Stop Parity: Odd  
Facility Code and Bits: 0 8  
 Lenel + Key (Lenel format only)

Bypass the input signal through Wiegand IN into the output  
 Output the signal with Facility Code and Card ID for accept

**Fixed Wiegand Out Card ID**

	Enable	Site Code	Card ID
Allow Card ID:	<input type="checkbox"/>		
Reject Card ID:	<input type="checkbox"/>		
REX/Egress Card ID:	<input type="checkbox"/>		

OK Set to Default Cancel

## 6. Set the Smart Card Settings.

- Smart Card Reader Interface: Serial Reader = external reader, USB = Internal Reader
- Smart Card Type: At this time we support iClass and Desfire
- Book: Book 0 is default. Choose this for 16k/2app cards and 16k/16 app cards. Choose book 1 if you plan on using 32k/16app cards additional information stored in Book 0
- Authentication Key: Default is F0E1D2C3B4A59687. This key must match the IrisAccess Card Format in OnGuard
- Encryption must also match the IrisAccess Card Format if configured.

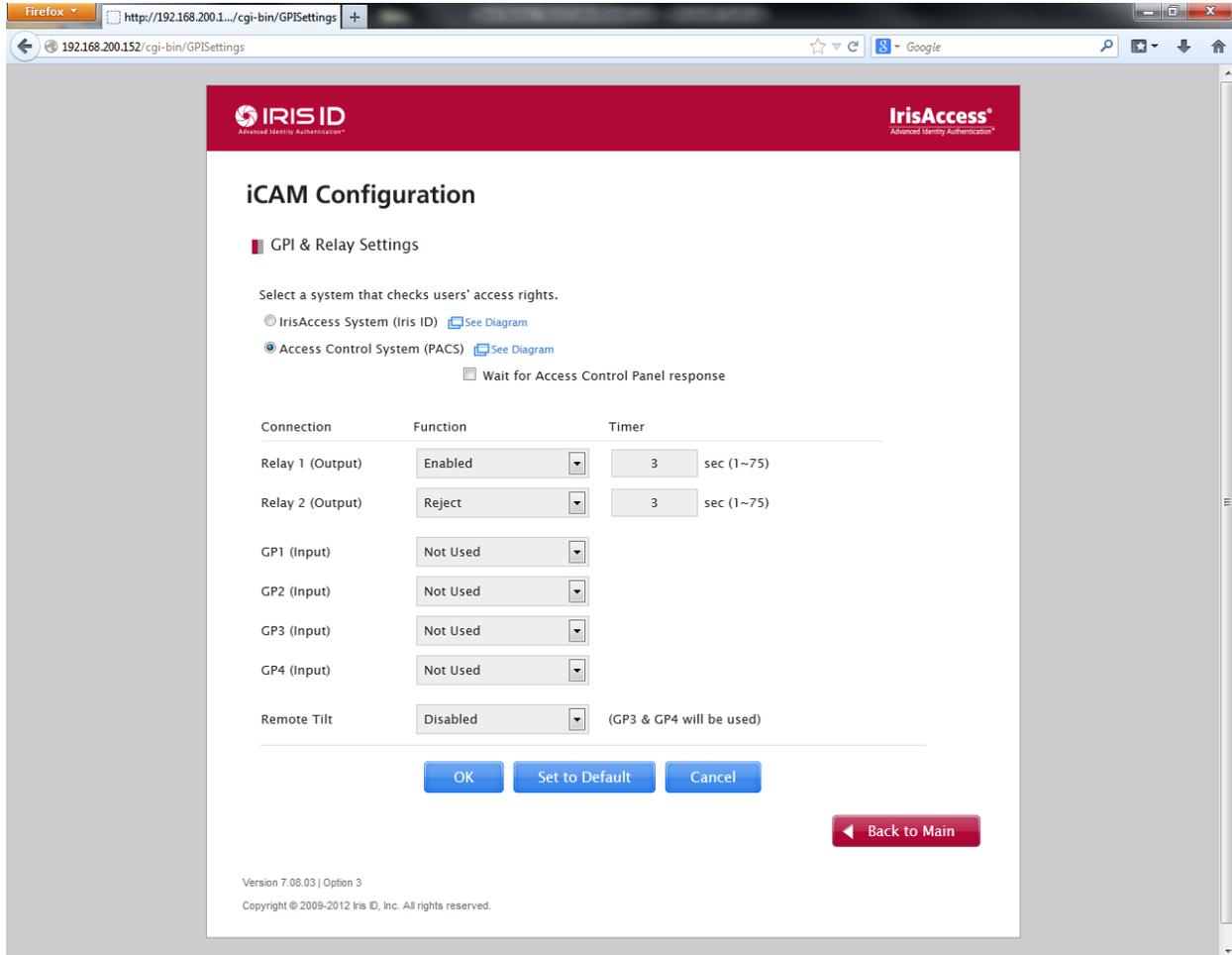
The screenshot shows a web browser window with the URL `192.168.200.152/cgi-bin/smartcardconfig`. The page title is "iCAM Configuration" and it features the "IRIS ID" and "IrisAccess" logos. The "Smart Card Settings" section is active, displaying the following configuration options:

- Smart Card Reader Interface: Serial Reader
- Smart Card Type: HID iClass
- Communication: Plain
- Transmission Protocol: ISO 15693 (Longer Range)
- Book: Book 0
- Offset (hexadecimal): 13 (with "Set to Default" button)
- Authentication Key (hexadecimal): F0E1D2C3B4A59687 (with "Set to Default" button)
- Data Format: Lenel Format
- Encryption Algorithm: None
- Encryption Key File: Browse... No file selected.
- Use as Prox Card

At the bottom of the form, there are buttons for "Set to Default", "Cancel", and "Back to Main". The footer text reads: "Version 7.08.03 | Option 3" and "Copyright © 2009-2012 Iris ID, Inc. All rights reserved."

7. Set the GPI & Relay Settings.

- a. This must be set to PACS for this configuration.



- 8. RS422 settings will not change
- 9. You may set LCD Settings and custom Voice and Display Messaged on the 7100 unit if you would like.
- 10. Make sure that the unit is rebooted if you choose to reboot later.



## Steps on how to setup enrollment

1. In order to enroll you must be in Option 1 on the iCAM7000.

The screenshot shows a web browser window with the address bar displaying '192.168.200.152/cgi-bin/OperationalMode'. The page content is titled 'iCAM Configuration' and features the IRIS ID and IrisAccess logos. The configuration is set to 'Operational Mode'. Three options are listed:

- Option 1: Networked iCAM Control / Iris Matching Mode [See Diagram](#)  
iCAM functions and iris matching controlled by networked software or devices. Supported by IrisAccess EAC software (IrisEnroll4000 or ICU4000), or with iData SDK software (iCAM4000 series compatibility).
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- Option 3: On-Device iCAM Control and Iris Matching Mode [See Diagram](#)  
iCAM is controlled and iris matched inside the iCAM. Provides function of ICU within the iCAM. For use with IrisAccess EAC software only.

Below the options, there are input fields for 'IrisServer IP:' and 'Security ID:'. Underneath, there are radio buttons for 'Action on failure of DB Sync with IrisServer':

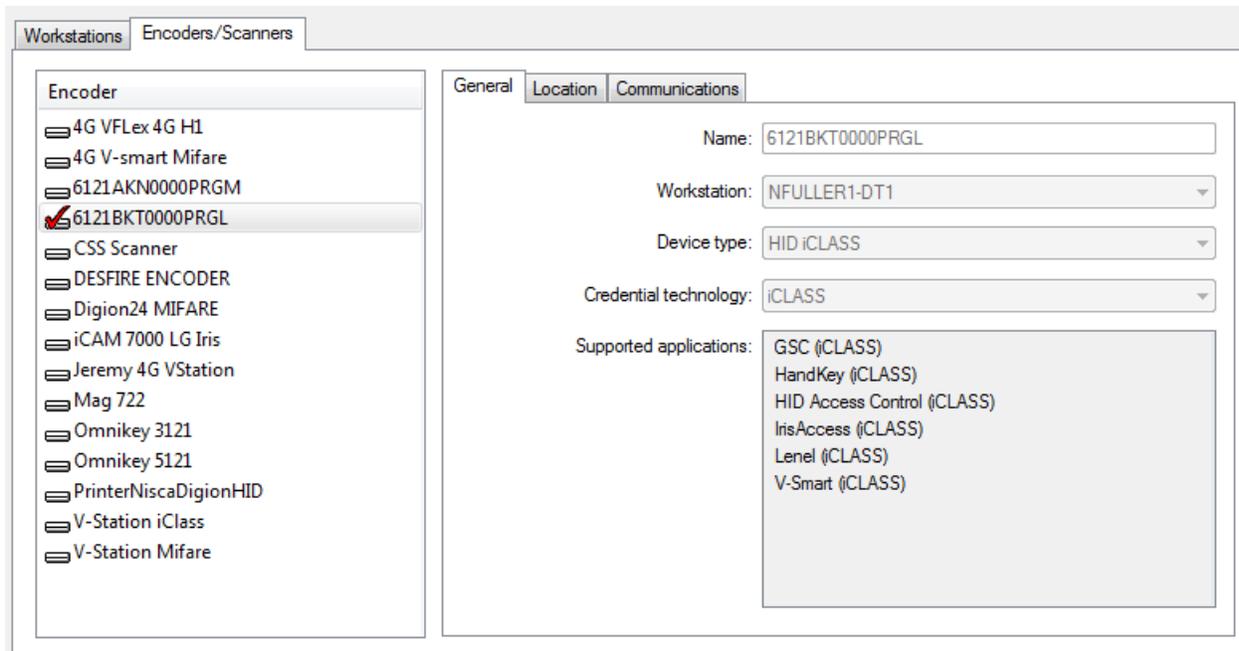
- Restore local DB in device to previous copy
- Put device into error state and disconnect from IrisServer (Device automatically reconnects to IrisServer and DB Sync is performed again)

At the bottom, there is a checkbox for 'Display initial start-up screen at next login' which is unchecked. There are 'OK' and 'Cancel' buttons, and a 'Back to Main' button in a red box. The footer contains the text: 'Version 7.08.03 | Option 3' and 'Copyright © 2009-2012 Iris ID, Inc. All rights reserved.'

2. No additional configuration is required
3. In the OnGuard Capture Form choose Iris (IrisAccess iCAM)
  - a. Set the IP and connect to the unit.
  - b. Capture and follow instructions on the unit.

## Steps on how to setup encoding

1. There is the ability to encode IrisAccess templates through the iCAM unit, or you can encode via the 6121BKT0000PRGL. The PRGL encoder will allow you to also encode the HID Access Control (iCLASS Format).
2. Configure the encoder in OnGuard. Choose HID iCLASS for the 6121BKT0000PRGL



3. When encoding you must encode two separate times. First the HID iCLASS format, then the IrisAccess format.

## Wiring an External Reader

As of Firmware 7.09.05 and earlier a configuration card is required to flash the RW400 reader to 115200 baud rate. RW400 Readers will not read with properly with 57600 baud rate.

Config Card: 2000-10-00-000005

Smart Card interface:

iCAM7000 HID RW400

12V P1-4 +VDC

TXD P2-6 GPIO2 RX

RXD P2-7 GPIO1 TX

GND P1-3 RTN

Wiegand IN interface:

iCAM700 HID RW400 iCAM7000 (smart card)

DATA\_0 P2-3 Data 0

DATA\_1 P2-4 Data 1

GND GND