PELCO™

Sarix® Professional 3 IXP Series Indoor ABF Box

Installation Manual

IXP13
IXP23
IXP33
IXP53

Content

Important Notices

REGULATORY NOTICES [FCC CLASS A]

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RADIO AND TELEVISION INTERFERENCE

This equipment has been tested and found to comply with the limits of a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes and Modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commission's rules.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

LEGAL NOTICE [AUDIO NOTICE]

SOME PELCO EQUIPMENT CONTAINS, AND THE SOFTWARE ENABLES, AUDIO/VISUAL AND RECORDING CAPABILITIES, THE IMPROPER USE OF WHICH MAY SUBJECT YOU TO CIVIL AND CRIMINAL PENALTIES. APPLICABLE LAWS REGARDING THE USE OF SUCH CAPABILITIES VARY BETWEEN JURISDICTIONS AND MAY REQUIRE, AMONG OTHER THINGS, EXPRESS WRITTEN CONSENT FROM RECORDED SUBJECTS. YOU ARE SOLELY RESPONSIBLE FOR INSURING STRICT COMPLIANCE WITH SUCH LAWS AND FOR STRICT ADHERENCE TO ANY/ALL RIGHTS OF PRIVACY AND PERSONALTY. USE OF THIS EQUIPMENT AND/OR SOFTWARE FOR ILLEGAL SURVEILLANCE OR MONITORING SHALL BE DEEMED UNAUTHORIZED USE IN VIOLATION OF THE END USER SOFTWARE AGREEMENT AND RESULT IN THE IMMEDIATE TERMINATION OF YOUR LICENSE RIGHTS THEREUNDER.

NOTE: Improper use of audio/visual recording equipment may subject you to civil and criminal penalties. Applicable laws regarding the use of such capabilities vary between jurisdictions and may require, among other things, express written consent from the recorded subjects. You are solely responsible for insuring strict compliance with such laws and for strict adherence to any/all right of privacy and personality.

VIDEO QUALITY CAUTION

FRAME RATE NOTICE REGARDING USER SELECTED OPTIONS

Pelco systems are capable of providing high quality video for both live viewing and playback. However, the systems can be used in lower quality modes, which can degrade picture quality, to allow for a slower rate of data transfer and to reduce the amount of video data stored. The picture quality can be degraded by either lowering the resolution, reducing the picture rate, or both. A picture degraded by having a reduced resolution may result in an image that is less clear or even indiscernible. A picture degraded by reducing the picture rate has fewer frames per second, which can result in images that appear to jump or move more quickly than normal during playback. Lower frame rates may result in a key event not being recorded by the system.

Judgment as to the suitability of the products for users' purposes is solely the users' responsibility. Users shall determine the suitability of the products for their own intended application, picture rate and picture quality. In the event users intend to use the video for evidentiary purposes in a judicial proceeding or otherwise, users should consult with their attorney regarding any particular requirements for such use.

OPEN SOURCE SOFTWARE

This product includes certain open source or other software originated from third parties that is subject to the GNU General Public License (GPL), GNU Library/Lesser General Public License (LGPL) and different and/or additional copyright licenses, disclaimers, and notices.

The exact terms of GPL, LGPL, and some other licenses are provided to you with this product. Please refer to the exact terms of the GPL and LGPL at http://www.fsf.org (Free Software Foundation) or http://www.opensource.org (Open Source Initiative) regarding your rights under said license. You may obtain a complete corresponding machine-readable copy of the source code of such software under the GPL or LGPL by sending your request to digitalsupport@pelco.com; the subject line should read Source Code Request. You will then receive an email with a link for you to download the source code.

This offer is valid for a period of three (3) years from the date of the distribution of this product by Pelco.

KOREAN CLASS A EMC

이 기기는 업무용 (A 급) 전자파 적합기기로서 판매자 또는 사용자는
이 점을 주의하시길 바라며 , 가정 외의 지역에서 사용하는 것을 목적
으로 합니다 .

ESD WARNING

WARNING: This product is sensitive to Electrostatic Discharge (ESD). To avoid ESD damage to this product, use ESD safe practices during installation. Before touching, adjusting or handling this product, correctly attach an ESD wrist strap to your wrist and appropriately discharge your body and tools. For more information about ESD control and safe handling practices of electronics, please refer to ANSI/ESD S20.20-1999 or contact the Electrostatic Discharge Association (www.esda.org).

WARRANTY

For information about Pelco's product warranty and thereto related information, refer to *www.pelco.com/warranty*.

NETWORK TOPOLOGY STATEMENT

IMPORTANT NOTE. PLEASE READ. The network implementation is shown as a general representation only and is not intended to show a detailed network topology. Your actual network will differ, requiring changes or perhaps additional network equipment to accommodate the system as illustrated. Please contact your local Pelco representative to discuss your specific requirements.

Preface

This installation manual is to be used as a reference for the installation of the camera unit including wire connection, camera installation, and camera adjustment.

This manual provides the following information.

- **Product Overview:** The main functions and system requirements of the unit.

- **Installation and Connection:** Instructions on unit installation and wire connections.

1. Product Overview

1.1 Dimensions

The dimensions of the Sarix Professional 3 Series Indoor ABF Box are depicted within the Figure 1-1 below.

✋ **NOTE:** VALUES IN PARENTHESES ARE INCHES; ALL OTHERS ARE CENTIMETERS.
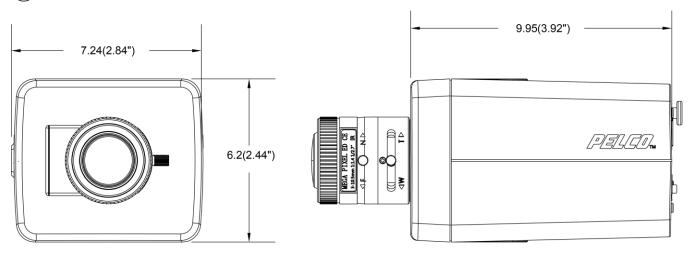

FIGURE 1-1: PHYSICAL DIMENSIONS

1.2 Model Instruction

The physical appearance and installation methods for the models indicated within the list below are, by and large, the same.

Therefore, in this manual the IXP53 model is an example to use as a reference to apply to all the varied models.

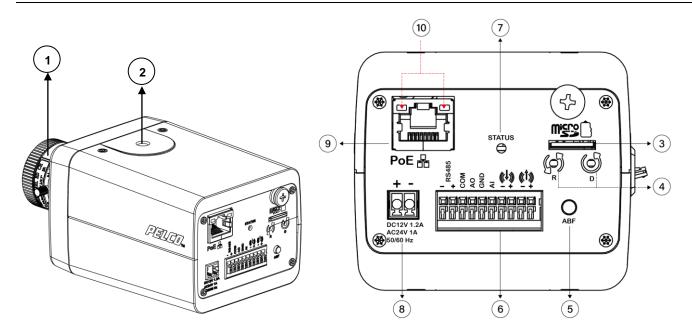| Model	Description
IXP13	1MP Indoor ABF Box Camera
IXP23	2MP Indoor ABF Box Camera
IXP33	3MP Indoor ABF Box Camera
IXP53	5MP Indoor ABF Box Camera

TABLE 1-1: MODELS LIST

1.3 Physical Characteristics

1. **Lens**

2. **Mount Screw Hole:** Both top and bottom of the camera housing have one mount screw hole for mounting the camera. Use a standard 1/4"-20 screw to mount the camera in the desired location.

3. **Micro-SD Card Slot:** The slot is for inserting extra micro SD card for file storage.

4. **Default & Reset Button:**

    - **Default (D):** Press the button for 6 seconds to restore the camera's settings back to the factory default.

    - **Reset (R):** Press the button for below 1 second to reboot the camera.

5. **ABF:** Press the button for approximately 1 second to get the right focus automatically and immediately.

6. **Digital I/O Connectors**

    - **RS485:** Via "-" and "+" ports under "RS485", connect to external RS485-based device that can be used to perform pan/tilt action.

    - **Alarm In:** Via "GND" and "AI" ports, connect to external device that can trigger alarm input signals.

    - **Alarm Out:** Via "COM" and "AO" ports, connect to external device to be triggered through alarm output signals.

    - **Audio In:** Via "-" and "+" ports under ((•)), connect to external device such as microphone that receives sound for camera.

    - **Audio Out:** Via "-" and "+" ports under ((•)), connect to device such as speaker to be triggered through alarm output signals.

7. **Status:** The LED lights on when power is applied.

8. **Power:** Supports DC12V and AC24V as power source.

9. **RJ-45 Network Port:** Connects the camera to the IP network. Also supplies power to the camera through the network using PoE. If PoE is not available, the camera is prewired for 24 VAC.

10. **LED Indicators**
    - **Green LED:** With solid green, the LED indicates a live connection is established.
    - **Orange LED:** With flashing orange, the LED indicates data is being transmitted / received between camera and Internet.

2. Installation and Connection

2.1 Unpacking Everything

Check all items in the product box against the order form and the packing slip. In addition to this manual, the items below are included in the packing box.

- Indoor ABF Box Camera * 1
- Supplemental Resources Sheet * 1
- Important Safety Instruction * 1
- ROHS Statement Slip * 1

Please contact your dealer if any items are missing.

2.2 Optional Accessories

- Recommended Mount
    - C11-UM: Gang box mount
    - CM1751: Pedestal mount
    - TB1751: T-rail mount
- Recommended Enclosures
    - EH14 Series*: PoE and 24 VAC indoor/environmental enclosures
    - EH20 Series*: Indoor and environmental enclosures
    - EHS8000 Series*: Indoor and environmental enclosures

    *Not all box/lens types supported.
- Recommended Lenses
    - YV3.3X15SR4A: MPx lens, varifocal, 15 ~ 50 mm, f/1.5
    - YV2.8X2.8SR4A: MPx lens, varifocal, 2.8 ~ 8 mm, f/1.3
    - YV2.7X2.2SR4A: MPx lens, varifocal, 2.2 ~ 6 mm, f/1.3

2.3 Installation

The following tools might help you complete the installation.

- A Drill
- Screwdrivers
- Wire Cutters

2.3.1 Checking Appearance

Although the protective materials used for the packaging should be able to protect the unit from most accidents during transportation, check the unit and its accessories for any visible damage. Remove the protective film to check items in accordance with the list in **2.1 Unpacking Everything**.

2.3.2 Installing the Lens

Attach your lens onto the camera's lens mounting ring. Screw the lens onto the lens mount. Be careful to prevent dust from entering the space between the lens and the imager. If necessary, use clean, compressed air to remove any foreign matter (refer to the instructions shipped with the lens).

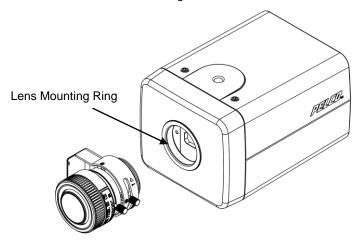**NOTE:** Make sure the lens does not touch the camera imager when installed.

Lens Mounting Ring

FIGURE 2-1: INSTALLING THE LENS

2.3.3 Mounting the Camera

1. Select a bracket or housing (sold separately) which has a standard thumbscrew matching the mount screw hole as shown below and fasten the camera with bracket / housing securely by the mounting screw hole. Depending on different applications, mount your selected bracket / housing onto the wall or ceiling to complete mounting procedure.
2. Connect a safety wire (fall prevention wire, sold separately) with one end to the wall / ceiling and the other end to the safety-cord screw on the camera.

    NOTE:

    *   When installing inside an enclosure, mount the camera in an inverted position to allow easy access to the service port. Use the camera software to reconfigure the camera orientation for normal operation.
    *   The mounting height above ground level shall be more than 3 meters for wall mount height.
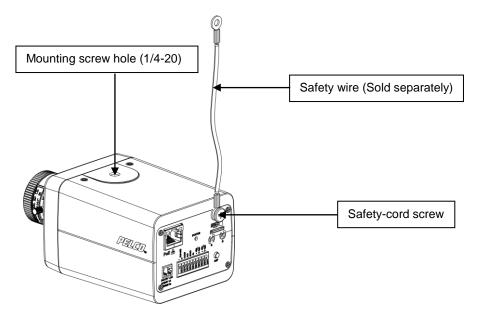
Mounting screw hole (1/4-20)

Safety wire (Sold separately)

Safety-cord screw

FIGURE 2-2: MOUNTING THE CAMERA

2.3.4 Connecting the Cables

The I/O interfaces will be seen on the rear panel of the box camera. Make the appropriate cable connections.

- Power supply via one of the following 3 alternatives.
  - **AC 24V:** Connect a power cable that supplies AC24V power source to the terminal block, and then insert the terminal block into the power port.
  - **DC 12V:** Connect a power cable that supplies DC12V power source to the terminal block, and then insert the terminal block into the power port.

    NOTE: The polarities should be matching when using DC12V power source.
  - **PoE (Class 3):** Connect an Ethernet cable terminated with RJ-45 connector to the PoE RJ-45 port for both power supply and network connectivity purposes simultaneously.

    NOTE:
    - If a Class I PoE adapter or switch is used to provide power, be sure that the power cord is firmly plugged into the socket and confirm the main earth connection.
    - This product is intended to be supplied by a UL Listed Power Adapter or DC power source marked "L.P.S" (or "Limited Power Source"), rated 24Vac, 1.1A or 12Vdc, 1.6A, Tma=50 degree C or 48Vdc, 350mA Gigabit Passive PoE injector, 802.3af/at PSE.
    - Interconnecting cables for PoE is intended to be supplied by a UL Listed type CL3P, CL3R or CL3X, marked "SUNLIGHT RESISTANT", "SUN. RES.", or "SR." and "water resistant" or "W"
- (Optional) Insert audio/alarm/RS485 cables to the corresponding ports within rear panel of the box camera if required.
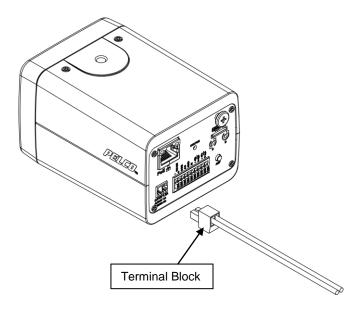
Terminal Block

FIGURE 2-3: POWER SUPPLY VIA AC24V / DC12V

2.3.5 Adjusting the Focus

1. View the camera image using the browser (refer to Operation Manual).

2. Press the auto back focus (ABF) button once to center the focus mechanism.

3. Adjust the lens zoom and focus manually to the desired field of view (refer to the instructions shipped with the lens).

4. Press and hold the auto back focus (ABF) button for three seconds to start the auto back focus mechanism.

NOTE: Be sure to select a lens type being used (DC Iris, P Iris, ICS) through the browser; otherwise, the iris will be closed, video black, and the camera can't be focused.

Pelco Troubleshooting Contact Information

If the instructions provided fail to solve your problem, contact Pelco Product Support at 1-800-289-9100 (USA and Canada) or +1-559-292-1981 (international) for assistance. Be sure to have the serial number available when calling.

Do not try to repair the unit yourself. Leave maintenance and repairs to qualified technical personnel only.

REVISION HISTORY

Manual #	Date	Comments
C6632M	07/19	Rev.01

PELCO™

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