IndigoVision

XF HD Fixed Camera BX Range

Quick Start Guide

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Further information
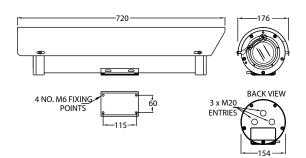
For further information, see the User Guide:
You can download a copy from:
www.indigovision.com/xf-hd-fixedcamera-quickstartguide
Alternatively, scan the QR code below.

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Package Contents

Camera
- 3 x M20 Cable Entry
- Flexible Conduit (ATEX, IECEx and INMETRO models only)
- Cable Bundle (UL and CSA models only)

Additional items
- Sunshield and fixings
- IndigoVision logo stickers for sunshield
- Envelope containing ATEX Technical Manuals and wiring diagrams

Connections

Pin connections

Pin number	Type	Description
1	CAT5 Multicore	Ethernet connection
2	Green/Yellow	Earth
3	Blue	24V AC (120W/5A) Common
4	Brown	24V AC (120W/5A) Live
5	Violet	24V AC Output for water pump
6	Yellow	24V AC Pump Common

Safety Information

Warning

⚠ *Ensure the power supply is switched off during installation.*

⚠ *When installing the camera, fasten it securely to the surface. A falling camera may cause personal injury.*

Caution

⚠ *Only install in suitable environments. For more information, see the Atex Technical Manuals.*

⚠ *Handle the camera with care so the main electronics and components are not damaged.*

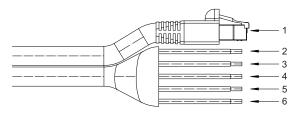⚠ *For security reasons, you must change the camera's default username and password.*

⚠ *Ensure each camera has a unique IP address.*

Notices

Use only hex socket head fasteners with property class of A4-70 for securing end covers and shafts to housing.

Read this guide before installing the camera.

Regulatory

Regulatory information is marked on the silver regulatory label applied to rear face of the camera. The regulatory approvals applied to the camera include one or more of the following standards:

- EN60079-14:2008
- IEC60079-14:2007
- UL1203 (2006)
- UL 60065 (Edition 7)
- CAN/CSA-22.2 No 60065-03 (2012)
- CAN/CSA-22.2 No 30 M1986 (2012)
- CAN/CSA-22.2 No 25-1966 (2009)
- INMETRO
- No modifications must be made to the flamepaths of the unit without consultation of the drawings listed.
- Temperatures could exceed 70^0C at the cable gland or 80^0C at the branching point, suitably rate cable must be selected.
- No electromagnetic or ultrasonic radiating equipment to be fitted into the enclosures. However, a fibre optic transmitter may be fitted, the output from which must always be routed out of the enclosure via armoured cable or conduit and must be terminated within a suitably certified enclosure or in a safe area.
- A routine overpressure test in accordance with IEC 60079-1:2007 Clause 16.1 shall be carried out on all enclosures, Including all cemented window assemblies, at a pressure of 27.3 Bar for a period of between 10 and 60 seconds and must be recorded. There shall be no deformation or damage to the enclosures and no leakage through the cement of any of the window assemblies.

1. POWERING UP THE CAMERA

The camera power requirements are 24V AC (±10%) with a maximum power of 120 Watts.

The camera should only be powered from the specified voltage. No allowance is made for a varying voltage supply.

⚠ **Caution** *Applying the incorrect power supply voltage will cause irreparable damage to the unit.*
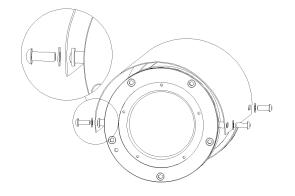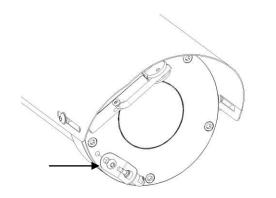

Figure 1 Sunshield installation

Figure 2 Washer nozzle installation

2. CONFIGURING THE CAMERA

Before you connect the camera to your network, you must configure the camera's IP address and subnet mask appropriately.

Configure the network settings

1. Connect the camera to a PC using an Ethernet crossover cable.
2. Navigate to the camera's default IP address using a web browser, and enter the default user name and password.

Default Username	Admin
Default Password	1234
Default IP Address	10.5.1.10
Default Subnet Mask	255.0.0.0
Default Gateway	10.0.0.1

3. Enter the NTP server on the **Date & Time** menu.
4. Enter a new IP address and subnet mask on the **Network** menu.

Configure the serial port

The camera is configured by default to appear as a PTZ camera within Control Center to enable the Wash/Wipe function to be controlled by the preset function.

The serial communications between the internal camera and the enclosure is configured as RS485 Pelco D at 2400bps. The serial port controls the Wash/Wipe functions within the ATEX enclosure.

Configure the Wipe and Wash

By default Wipe and Wash commands are saved as Presets 86 (Wipe) and 87 (Wash). These appear in Control Center as the first two Presets available. If these Presets are deleted or overwritten they can be restored by accessing the Preset section on the camera configuration page.

The wiper is configured to wipe for 3 wipes then automatically stop on RECALL of Preset 86.

On RECALL of Preset 87 the switched output (Wash) will activate for 5 seconds.

3. INSTALLATION

Sunshield installation

The sunshield is supplied uninstalled to prevent damage during shipping and unpacking. They are supplied with a protective white film that must be removed prior to installation.

To mount the sunshield, position it correctly and fix with a nylon spacer between the sunshield and the camera housing. The M6 A4 button head screws supplied must have the red fibre washer fitted before fixing the sunshield.

Washer nozzle installation

A suitable washer nozzle and mounting bracket may be fitted during installation. The washer nozzle should be positioned to allow cleaning fluid to reach the camera housing window when the wash command is sent.

The wash command is configured as Preset 87 and can be saved with a suitable name within the camera configuration pages.

Electrical installation

Electrical installation and servicing should only be carried out by qualified service personnel and in accordance with all local/national codes of practice and standards.

This guide only covers the standard installation. For detailed connection and configuration, refer to individual project specific drawings and information.

▶ *For more information, refer to the ATEX Technical Manuals and wiring diagrams.*

• Always use color-coded conductors or other identification of conductors for ease of wiring and identification.

• Keep a wiring diagram with the system for later use and reference.
• Provision is made for one cable entry, at the base mount of the pan tilt.
• To maintain the certification requirements of the unit all cables/conduits must be fitted at the entry, with certified Exd Flameproof, compound filled barrier glands, either brass, nickel plated or stainless steel.
• The cable entry to the unit is M25 x 1.5 ISO thread, or M20 using an Exd certified reducer.
• A minimum of 10mm depth of engagement must be maintained for all glands.
• All glands/reducers must be ingress protected to IP67 or better, to maintain the weatherproof rating of the equipment.
• For maintenance purposes, consult the separately supplied additional wiring drawings specific to the unit.

4. OPERATIONS

This chapter describes common tasks required for the operation of the XF HD Fixed Camera - BX Range.

Focus the camera using Control Center

1. Add the camera to the Control Center site database ensuring you configure the **Device Access** credentials.
2. Right-click the camera in the **Video Explorer**, select **Properties > Video and Audio**, and select the appropriate Profile Token and Connection.
3. Right-click the camera in the **Video Explorer** and select **View Video**.
4. In the main window, click the **Configuration** tab.
5. Navigate to **Video > Basic** and use the **Zoom** and **Focus** options to focus the camera.

Configuring the camera

1. You can access the camera configuration pages using the IP address of the camera.
   Alternatively, you can access these pages through IndigoVision Control Center.
2. In **Setup** view, select the camera you want to configure.
3. Select the **Configuration** tab, and enter a valid user name and password.

Maintenance

• Recommended inspection interval - 6 months.
• Fixings and fastenings should be checked for tightness and integrity at regular intervals.
• All cable entries and cables should be checked for integrity at regular intervals.
• Clean the unit.

• Check the 'O' ring weather seals and replace if necessary.
• Replace 'O' rings every 5 years.
• Check and if necessary replace the washer nozzle.
• Check and if necessary replace the window wiper blade.

Notice *Cameras operating in extremely harsh environments may require more frequent inspection and maintenance checks. Please read and be familiar with the instructions before servicing the housing.*

Corrision protection

Although all external metal components are produced from 316L Stainless Steel, if the units are not correctly maintained, handled, and cleaned regularly there is the possibility of mild discoloration due to oxidation.

If ferrous metal equipment is used when handling the units, small ferrous deposits could be left on the stainless steel, this can cause accelerated corrosion of the ferrous deposits and discolor the units due to oxidation.

In the event of ferrous deposits, the units should be cleaned immediately.

In atmospheres that are high in corrosive particles the units should be cleaned every 3 to 4 months.