HIKVISION®

**ECT-B32V2
TurboHD Bullet Camera**

Quick Start Guide

ECT-B32V2 Quick Start Guide

Manual Illustrations and Features

Graphics (screen shots, product pictures, etc.) in this document are for illustrative purposes only. Your actual product may differ in appearance. Your product might not support all features discussed in this document.

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About this Manual

This manual may contain technical incorrect places or printing errors, and the content is subject to change without notice. The updates will be added to the new version of this manual. We will readily improve or update the products or procedures described in the manual.

Regulatory Information

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Compliance: This equipment has been tested and found to comply with the limits for 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.

FCC Conditions

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.

2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement

This product and, if applicable, the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Low Voltage Directive 2014/35/EU, the EMC Directive 2014/30/EU.

2012/19/EU (WEEE Directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.

2006/66/EC (Battery Directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation

for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

Industry Canada ICES-003 Compliance
This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

Warning
This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Safety Instruction
These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into "Warnings" and "Cautions".

Warnings: Serious injury or death may occur if any of the warnings are neglected.
Cautions: Injury or equipment damage may occur if any of the cautions are neglected.

⚡	⚠
Warnings Follow these safeguards to prevent serious injury or death.	**Cautions** Follow these precautions to prevent potential injury or material damage.

⚡ Warnings

- In the use of the device, you must be in strict compliance with the electrical safety regulations of the nation and region.

- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 12 VDC according to the IEC60950-1 standard. Refer to technical specifications for detailed information.

- Do not connect multiple devices to one power adapter to avoid over-heating or a fire hazard caused by overload.

- Make sure that the plug is firmly connected to the power socket.

- Make sure that the device is firmly fixed if wall mounting or ceiling mounting is adopted.

- If smoke, odor or noise rise from the device, turn off the power at once and unplug the power cord, and then contact the service center.

- Never attempt to disassemble the camera by unprofessional personal.

⚠ Cautions

- Do not drop the camera or subject it to physical shock.

- Do not place the camera in extremely hot, cold (the operating temperature shall be -40°C to 60°C), dusty or damp locations, and do not expose it to high electromagnetic radiation.

- Do not touch senor modules with fingers.

- If cleaning is necessary, use clean cloth with a bit of ethanol and wipe it gently.

- Do not aim the camera at the sun or extra bright places.
- The sensor may be burned out by a laser beam, so when any laser equipment is in using, make sure that the surface of sensor will not be exposed to the laser beam.
- Do not expose the device to high electromagnetic radiation or extremely hot, cold, dusty or damp environment.
- To avoid heat accumulation, good ventilation is required for the operating environment.
- Keep the camera away from liquid while in use for non-water-proof device.
- While in delivery, the camera shall be packed in its original packing, or packing of the same texture.

Mark Description

Mark	Description
‒‒‒	DC Voltage

Contents

1 Introduction

1.1 Product Features

The main features are as follows:

- High performance CMOS sensor

- IR cut filter with auto switch

- OSD menu with configurable parameters

- Internal synchronization

- SMART IR mode

- 3-axis adjustment

1.2 Overview
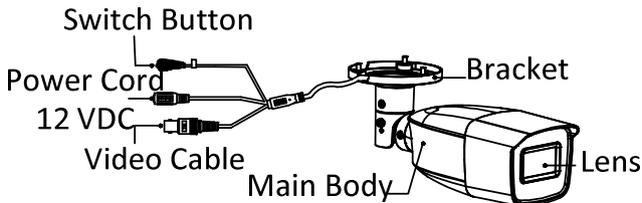
1.2.1 Camera Overview

Figure 1-1 Overview of Camera

2 Installation

Before You Start:

- Make sure that the device in the package is in good condition and all the assembly parts are included.

- Make sure that all the related equipment is power-off during the installation.

- Check the specification of the products for the installation environment.

- Check whether the power supply is matched with your power output to avoid the damage.

- Make sure the wall is strong enough to withstand three times the weight of the camera and the bracket.

- If the wall is cement, insert expansion bolts before installing the camera. If the wall is wooden, use self-tapping screws to secure the camera.

- If the product does not function properly, contact your dealer or the nearest service center. Do NOT disassemble the camera for repair or maintenance by yourself.

2.1 Installation of Camera

Before You Start:

Both wall mounting and ceiling mounting are suitable for the bullet camera. Ceiling mounting will be taken as an example in this section. You can take the ceiling mounting steps as a reference for wall mounting.

Steps:

1. Paste the drill template (supplied) to the place where you want to install the camera.

2. Drill the screw holes and the cable hole (optional) in the ceiling according to the drill template.
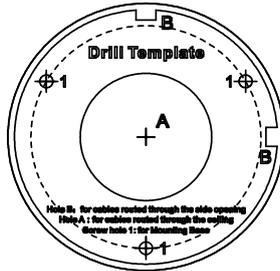
Figure 2-1 Drill Template

Note:
Drill the cable hole when adopting ceiling outlet to route the cable.

3. Route the cables through the cable hole or the side opening.

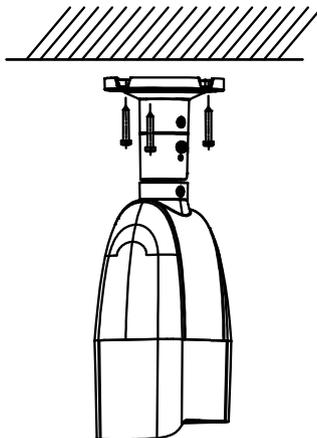4. Fix the camera to the ceiling with the supplied screws.

Figure 2-2 Fix the Camera to the Ceiling

Note:
- The supplied screw package contains self-tapping screws and expansion bolts.

- For a cement wall, expansion bolts are required to fix the camera. For a wooden wall, self-tapping screws are required.

5. Connect the corresponding power cord and video cable.

6. Power on the camera to check whether the image on the monitor is from the optimum angle. If not, adjust the surveillance angle.
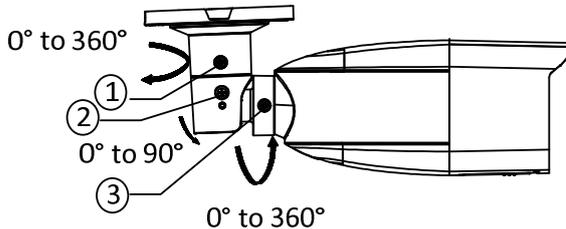

Figure 2-3 3-Axis Adjustment

1) Loosen the No.① adjusting screw to adjust the pan position [0° to 360°]. Tighten the No.① adjusting screw.

2) Loosen the No.② adjusting screw to adjust the tilting position [0° to 90°]. Tighten the No.② adjusting screw.

3) Loosen the No.③ adjusting screw to adjust the rotation position [0° to 360°]. Tighten the No.③ adjusting screw.

7. Fit the black liner back to the camera and tighten the screws on the bubble of the dome camera to finish the installation.

3 Menu Description

Purpose:

Call the menu by clicking the ▤ button on the PTZ Control interface, or click **Iris+**.

Steps:

1. Connect the camera with the TVI DVR, and the monitor, shown as figure 3-1.
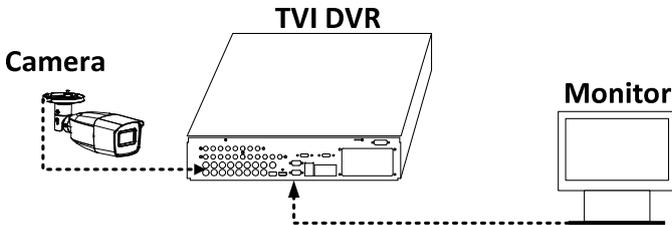
Figure 3-1 Connection

2. Power on the analog camera, TVI DVR, and the monitor to view the image on the monitor.

3. Click PTZ Control to enter the PTZ Control interface.

4. Call the camera menu by clicking the ▤ button, or click Iris+.

Figure 3-2 Main Menu Overview

5. Click the direction arrow to control the camera.

1) Click up/down direction button to select the item.

2) Click **Iris +** to confirm the selection.

3) Click left/right direction button to adjust the value of the selected item.

3.1 FORMAT

You can set the format as 2 MP @ 30 fps.

3.2 EXPOSURE

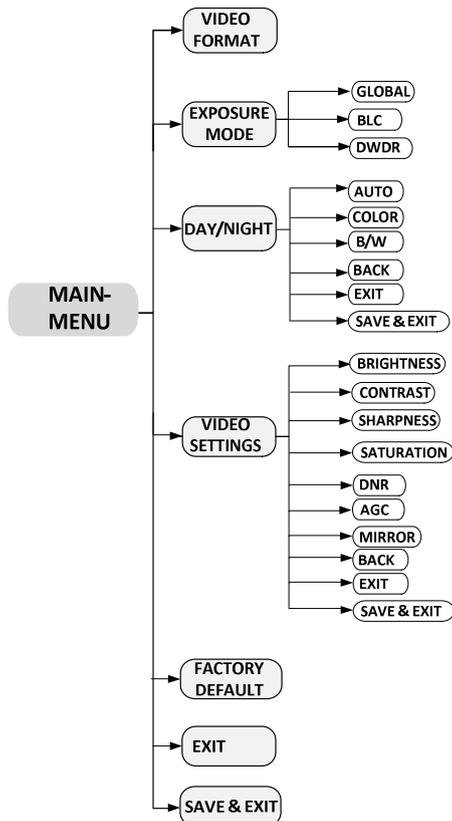Exposure describes the brightness-related parameters, which you can set the **EXPOSURE MODE** as **GLOBAL**, **BLC,** or **DWDR**.

● **GLOBAL**

  GLOBAL refers to the normal exposure mode, which sets exposure according to the whole image brightness.

● **BLC (Backlight Compensation)**

  BLC (Backlight Compensation) compensates light for the front object to make it clear, but this may cause the over-exposure of the background, where the light is strong.

● **DWDR (Digital Wide Dynamic Range)**

  DWDR helps the camera provide clear images even under backlight circumstances. When both very bright and very dark areas simultaneously exist in the image, **DWDR** balances the brightness level of the whole image to provide clear images with details.

3.3 DAY/NIGHT

COLOR, **BW** (Black White), and **AUTO** are selectable for DAY/NIGHT switch.

• **COLOR**

  The image is in color in day mode all the time.

• **B & W (Black and White)**

  The image is black and white all the time, and the **IR LIGHT** turns on in the poor light conditions.

You can turn on/off the **IR LIGHT** and set the value of **SMART IR** in this menu
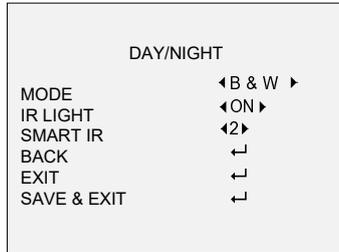
```
              DAY/NIGHT
                        ◄ B & W  ►
  MODE
  IR LIGHT              ◄ ON ►
  SMART IR              ◄ 2 ►
  BACK                    ↵
  EXIT                    ↵
  SAVE & EXIT             ↵
```

Figure 3-3 B & W

- **IR LIGHT**

  You can turn on/off the **IR LIGHT** to meet the requirements of different circumstances.

- **SMART IR**

  The **Smart IR** function is used to adjust the light to its most suitable intensity, and prevent the image from over exposure. The **SMART IR** value can be adjusted from 0 to 3. The higher the value is, the more obvious effects are.

- **AUTO**

  Automatically switch Color or BW (Black and White) according to actual scene brightness.

  You can turn on/off the **IR LIGHT** and set the value of **SMART IR** in this menu.

```
                    DAY/NIGHT

     MODE              ◄AUTO ►
     IR LIGHT          ◄ON►
     SMART IR          ◄2►
     D → N THRESHOLD   ◄2►
     N → D THRESHOLD   ◄7►
     BACK                ↵
     EXIT                ↵
     SAVE & EXIT         ↵
```

Figure 3-4 AUTO

- **IR LIGHT**

  You can turn on/off the **IR LIGHT** to meet the requirements of different circumstances.

- **SMART IR**

  The **Smart IR** function is used to adjust the light to its most suitable intensity, and prevent the image from over exposure. The **SMART IR** value can be adjusted from 0 to 3. The higher the value is, the more obvious effects are.

- **D→ N Threshold (Day to Night Threshold)**

  Day to Night Threshold is used to control the sensitivity of switching the day mode to the night mode. You can set the value from 1 to 9. The larger the value is, the more sensitive the camera is.

- **N→ D Threshold (Night to Day Threshold)**

  Night to Day Threshold is used to control the sensitivity of switching the night mode to the day mode. You can set the value from 1 to 9. The larger the value is, the more sensitive the camera is.

3.4 VIDEO SETTINGS

Move the cursor to **VIDEO SETTINGS** and click **Iris+** to enter the submenu. **BRIGHTNESS**, **CONTRAST**, **SHARPNESS**, **SATURATION, DNR**, **AGC,** and **MIRROR** are adjustable.

```
            VIDEO SETTINGS


BRIGHTNESS          ◄ 5 ►
CONTRAST            ◄ 5 ►
SHARPNESS           ◄ 5 ►
SATURATION          ◄ 5 ►
DNR                 ◄ 5 ►
AGC                 ◄ HIGH ►
MIRROR              ◄ OFF ►
BACK                  ↵
EXIT                  ↵
SAVE & EXIT           ↵
```
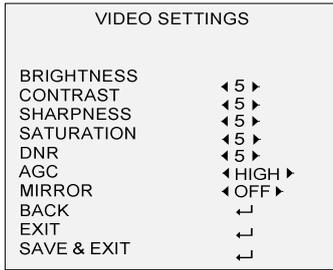
Figure 3-5 VIDEO SETTINGS

- **BRIGHTNESS**

  Brightness refers to the brightness of the image.

  You can set the brightness value from 1 to 9 to darken or brighten the image. The higher the value, the brighter the image.

- **CONTRAST**

  This feature enhances the difference in color and light between parts of an image. You can set the **CONTRAST** value from 1 to 9.

- **SHARPNESS**

  Sharpness determines the amount of detail an imaging system can reproduce. You can set the **SHARPNESS** value from 1 to 9.

- **SATURATION**

  Adjust this feature to change the saturation of the color. The value ranges from 1 to 9.

- **DNR (Digital Noise Reduction)**

  The DNR function can decrease the noise effect, especially when capturing moving images in poor light conditions and delivering more accurate and sharp image. You can set the **DNR** as **HIGH**, **MEDIUM**, or **LOW**.

- **AGC**

  It optimizes the clarity of the image in poor light conditions. The **AGC** level can be set as **High**, **Medium**, or **Low**. Select **OFF** to disable the **AGC** function.

Note:

The noise will be amplified when the **AGC** is on.

- **MIRROR**

  OFF, **H**, **V**, and **HV** are selectable for mirror.

  OFF: The mirror function is disabled.

  H: The image flips 180° horizontally.

  V: The image flips 180° vertically.

  HV: The image flips 180° both horizontally and vertically.

3.5 FACTORY DEFAULT

Move the cursor to **FACTORY DEFAULT** and click **Iris+** to reset all the settings to the factory default.

3.6 EXIT

Move the cursor to EXIT and click **Iris+** to exit the menu without saving.

3.7 SAVE & EXIT

Move the cursor to SAVE & EXIT and click Iris+ to save the settings, and exit the menu.

First Choice for Security Professionals