

HD VF Bullet & Turret & Dome Camera

User Manual

User Manual

Thank you for purchasing our product. If there are any questions, or requests, do not hesitate to contact the dealer.

This manual may contain several 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.

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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.

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

- 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.



- 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

Table 0-1 Mark Description

Mark	Description
	DC Voltage

1 Introduction

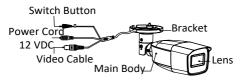
1.1 Product Features

The main features are as follows:

- High performance CMOS sensor
- IR cut filter with auto switch
- OSD menu with configurable parameters
- Auto white balance
- Internal synchronization
- SMART IR mode
- 4 in 1 video output (switchable TVI/AHD/CVI/CVBS)
- 3-axis adjustment

1.2 Overview

1.2.1 Overview of Type I Camera





Note:

Press and hold the switch button for 5 seconds to switch the video output. Four kinds of video outputs are available: TVI, AHD, CVI, and CVBS.

1.2.2 Overview of Type II Camera

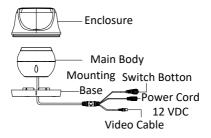


Figure 1-2 Overview of Type II Camera

Note:

Press and hold the switch button for 5 seconds to switch the video output. Four kinds of video outputs are available: TVI, AHD, CVI, and CVBS.

1.2.3 Overview of Type III Camera

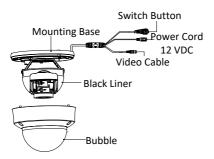


Figure 1-3 Overview of Type III Camera

Note:

Press and hold the switch button for 5 seconds to switch the video output. Four kinds of video outputs are available: TVI, AHD, CVI, and CVBS.

2 Menu Description

Purpose:

Call the menu by clicking button on the PTZ Control interface, or call the preset No.95.

Steps:

1. Connect the camera with the TVI DVR, and the monitor, shown as the figure 2-1.



Figure 2-1 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 interfa
- Click PTZ Control to enter the PTZ Control interface.
 Call the camera menu by clicking button, or call the preset No. 95.

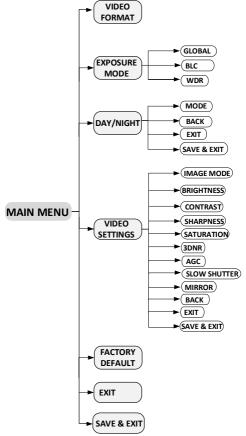


Figure 2-2 Main Menu Overview

- Click the direction arrow to control the camera.
 Click up/down direction button to select the item.
 - 2). Click Iris + to confirm the selection.

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

2.1 VIDEO FORMAT

You can select the video format as 2MP@25fps , or 2MP@30fps.

Note:

When switching the video output as CVBS, you can set the video format as PAL, or NTSC.

2.2 EXPOSURE

You can set the EXPOSURE MODE as GLOBAL, BLC, or WDR.

GLOBAL

GLOBAL refers to the normal exposure mode which adjusts lighting distribution, variations, and non-standard processing.

BLC (Backlight Compensation)

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

WDR (Wide Dynamic Range)

The wide dynamic range helps the camera provide clear images even under backlight circumstances. WDR balances the brightness level of the whole image and provides clear images with details.

2.3 DAY/NIGHT

COLOR, B&W (Black White), and AUTO are selectable for DAY and NIGHT switches.

COLOR

The image is colored in day mode all the time.

B/W

The image is black and white all the time, and it is better to turn the IR LIGHT on in poor light conditions.

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.

You can select the mode as **MODE 1**, or **MODE 2**. **MODE 1** is the default mode that can be applied to both indoor conditions, and outdoor conditions. When selecting the **MODE 1**, the IR Light has more obvious effects.

LEVEL

The **LEVEL** value can be adjusted from 0 to 3. The greater the value is, the more obvious effects are.

AUTO

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

DAY/NIGHT		
MODE IR LIGHT SMART IR LEVEL D → N THRE SHOLD N → D THRE SHOLD BACK EXIT SAVE & EXIT	<pre>AUTO > ON > ON > MODE1 > 2 > 7 > 7 > 47 > 47 > 47 > 47 > 47 > 47 ></pre>	

Figure 2-3 DAY NIGHT

IR LIGHT

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

SMART IR

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LEVEL

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• 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.

2.4 VIDEO SETTINGS

Move the cursor to VIDEO SETTINGS and click Iris+ to enter the submenu. IMAGE MODE, BRIGHTNESS, CONTRAST, SHARPNESS, SATURATION, 3DNR, AGC, SLOW SHUTTER, and MIRROR are adjustable.

VIDEO SETTINGS		
IMAGE MODE BRIGHTNESS CONTRAST SHARPNESS SATURATION 3DNR AGC SLOW SHUTTER MIRROR BACK EXIT SAVE & EXIT	<pre>STD + 5+ 5+ 5+ 5+ 5+ 5+ LOW + OFF + U U U U U U U U U U U U U U U U U U U</pre>	

IMAGE MODE

IMAGE MODE is used to adjust the image saturation, and you can set it as STD (Standard) or HIGH-SAT (High Saturation).

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 greater the value is, the brighter the image is.

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.

3DNR

The **3DNR** function can decrease the noise effect and deliver more accurate and sharp image. You can set the **3DNR** value from 1 to 9.

AGC (Auto Gain Control)

It optimizes the clarity of the image in poor light conditions. The AGC level can be set as HIGH, MEDIUM, or LOW.

Note:

The noise will be amplified when setting the **AGC** level. The higher the level is, the more obvious the noise is.

SLOW SHUTTER

SLOW SHUTTER increases the exposure time on a single frame, which makes the camera more sensitive to the light so that it can produce images even in low lux conditions.

You can set the **SLOW SHUTTER** function as OFF, x2, x4, x6, x8, x10, x12, x14 or x16 according to the different light conditions.

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.

2.5 FACTORY DEFAULT

Reset all the settings to the factory default.

2.6 EXIT

Move the cursor to EXIT and click Iris+ to exit the menu.

2.7 SAVE & EXIT

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

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