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2 MP ColorVu PoC Motorized Varifocal 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 applies to the models below:

Type	Model
Type I Camera	DS-2CE19DF8T-AZE
Type II Camera	DS-2CE79DF8T-AZE
Type III Camera	DS-2CE59DF8T-AVPZE

This manual may contain several technical mistakes 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, the RoHS Directive 2011/65/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 and IEC62368-1 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 touch sensor modules with fingers.
- 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.
- 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
~	AC Voltage

1 Introduction

1.1 Product Features

The main features are as follows:

- High performance CMOS sensor
- OSD menu with configurable parameters
- 24-hour color image
- Smart light
- 3-axis adjustment
- Varifocal lens
- Power over coaxial

1.2 Overview

1.2.1 Overview of Type I Camera

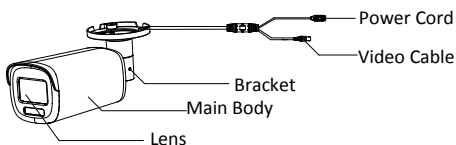


Figure 1-1 Overview of Type I Camera

1.2.2 Overview of Type II Camera

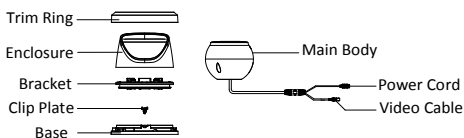


Figure 1-2 Overview of Type II Camera

1.2.3 Overview of Type III Camera

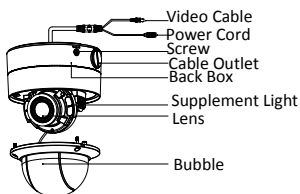


Figure 1-3 Overview of Type III Camera

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 damage.
- Make sure the wall is strong enough to withstand three times the weight of the camera and the mount.
- 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 Type I Camera

2.1.1 Ceiling/Wall Mounting Without Junction Box

Before you start:

Ceiling mounting and wall mounting are similar. Following steps take ceiling mounting as an example.

Steps:

1. Paste the drill template (supplied) to the place where you want to install the camera.
2. (Optional) For cement ceiling, drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs.
3. (Optional) Drill the cable hole, when the cables are routed through the ceiling.
4. Align the screw holes in the bracket to the ceiling, and secure the camera with three PA4 × 25-SUS screws (supplied).

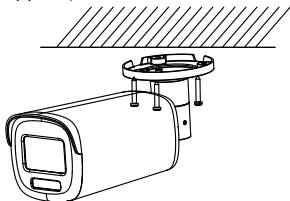


Figure 2-1 Secure Camera to Ceiling

5. Connect the power cord and video cable.
6. Power on the camera to adjust the view angle according to the figure below.

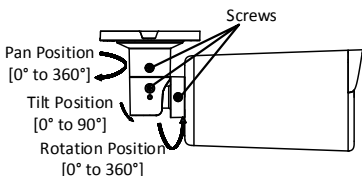


Figure 2-2 3-Axis Adjustment

7. Tighten the screws to lock the positions.

2.1.2 Ceiling/Wall Mounting with Junction Box

Before you start:

- You need to purchase a junction box in advance.
 - Ceiling mounting and wall mounting are similar.
- Following steps take wall mounting as an example.

Steps:

1. Paste the drill template for junction box to the place where you want to install the camera.
2. (Optional) For cement wall, drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs.
3. (Optional) Drill the cable hole, when the cables are routed through the wall.
4. Take apart the junction box.
5. Align the screw holes of the camera with those on the junction box cover. Attach the camera to the junction box cover with three PM4 × 10-SUS screws.

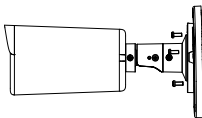


Figure 2-3 Attach Camera to Junction Box Cover

6. Secure the junction box body on the wall with three PA4 × 25 screws (supplied).

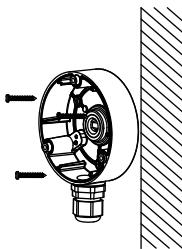


Figure 2-4 Secure Junction Box on Wall

7. Route the cables through the bottom cable hole or side cable hole of the junction box and connect the cables.
8. Fix the junction box cover on its body with three PM3 × 16 L6 screws that come with the junction box.

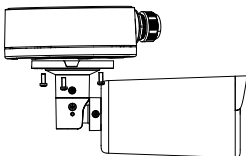


Figure 2-5 Fix Junction Box Cover on Its Body

9. Repeat steps 6 to 7 of 2.1.1 *Ceiling/Wall Mounting Without Junction Box* to finish the installation.

2.2 Installation of Type II Camera

2.2.1 Ceiling Mounting Without Junction Box

Steps:

1. Paste the drill template (supplied) to the place where you want to install the camera.
2. (Optional) For cement ceiling, drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs.
3. Remove the trim ring, and use three PA4 × 25 screws (supplied) to secure the base to the ceiling.

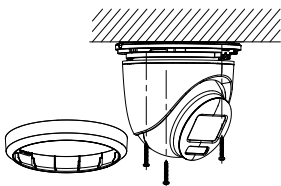


Figure 2-6 Secure Base to Ceiling

4. Loosen the screw on the base to adjust the view angle.

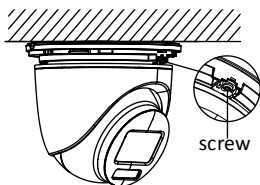


Figure 2-7 Loosen Screw

5. Power on the camera to adjust the view angle according to the figure below.

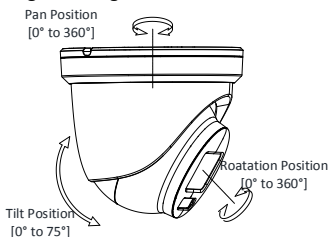


Figure 2-8 3-Axis Adjustment

- 1). Rotate the enclosure to adjust the pan position [0° to 360°].
 - 2). Move the main body up and down to adjust the tilt position [0° to 75°].
 - 3). Rotate the main body to adjust the rotation position [0° to 360°].
6. Tighten the screw, and install the trim ring back.

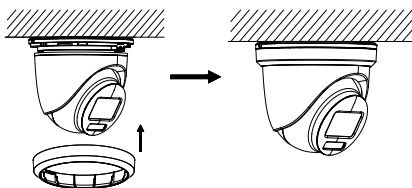


Figure 2-9 Finish Installation

2.2.2 Ceiling Mounting with Junction Box

Before you start:

You need to purchase a junction box in advance.

Steps:

1. Paste the drill template for junction box to the place where you want to install the camera.
2. (Optional) For cement ceiling, drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs.
3. (Optional) Drill the cable hole, when the cables are routed through the ceiling.
4. Secure the junction box body on the ceiling with four PA4 × 25 screws that come with the junction box.

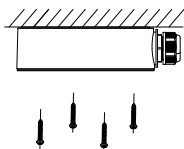


Figure 2-10 Fix Junction Box on Ceiling

5. Remove the trim ring. Loosen the screw on the base to take apart the base and main body, and take off the plug on the base.

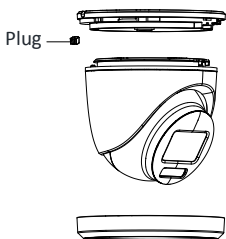


Figure 2-11 Take Apart Base and Main Body

6. Use four machine screws (supplied with junction box) to fix the base to junction box.

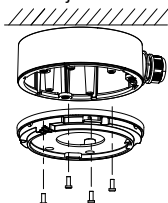


Figure 2-12 Fix Base to Junction Box

7. Connect the power cord and video cable, and put the cables back into the junction box.
8. Pull out the clip plate. Install the main body to the base, and insert the clip plate back.

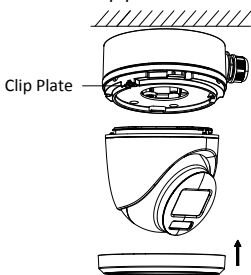


Figure 2-13 Secure Camera to Junction Box

9. Repeat the step 5 and 6 of 2.2.1 *Ceiling Mounting Without Junction Box* to finish the installation.

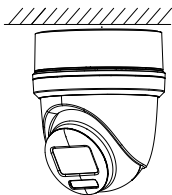


Figure 2-14 Finish Installation

2.2.3 Wall Mounting

Before you start:

You need to purchase a wall mount in advance.

Steps:

1. Drill Φ 10 mm screw holes in the wall where you want to install the wall mount.
2. Use four M6 expansion bolts to fix the wall mount onto the wall.

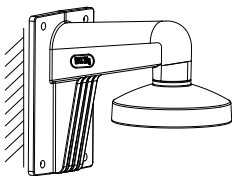


Figure 2-15 Fix Wall Mount

3. Repeat steps 5 to 9 of 2.2.2 *Ceiling Mounting with Junction Box* to finish the installation.

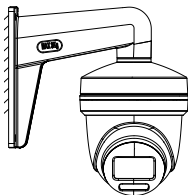


Figure 2-16 Finish Installation

2.2.4 Pendant Mounting

Before you start:

You need to purchase a pendant mount in advance.

Steps:

1. Drill Φ 10 mm screw holes on the ceiling where you want to install the pendant mount.
2. Use four M6 expansion bolts to fix the pendant mount on the ceiling.

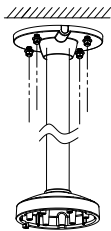


Figure 2-17 Fix Pendant Mount

3. Repeat steps 5 to 9 of 2.2.2 *Ceiling Mounting with Junction Box* to finish the installation.

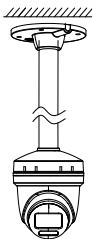


Figure 2-18 Finish Installation

2.3 Installation of Type III Camera

2.3.1 Ceiling Mounting Without Junction Box

Steps:

1. (Optional) For cement ceiling, drill the screw holes with a 5.5 mm drill and insert the supplied wall plugs.
2. (Optional) Drill the cable hole, when the cables are routed through the ceiling.
3. Secure the base plate (supplied) to ceiling with four screws.

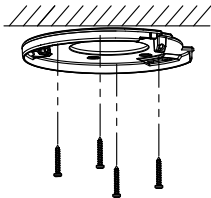


Figure 2-19 Secure Base Plate to Ceiling

4. Loosen the screws to remove the bubble.

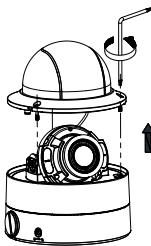


Figure 2-20 Remove Bubble

5. Align the mark on camera with the vertical line on base plate, and rotate the camera to fix it on the plate.

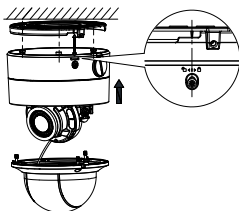


Figure 2-21 Fix Camera to Base Plate

6. Tighten the screw.

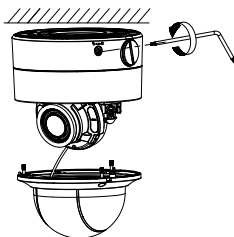


Figure 2-22 Tighten Screw

7. Power on the camera to adjust the view angle according to the figure below.

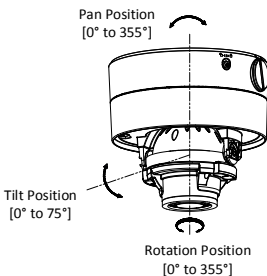


Figure 2-23 3-Axis Adjustment

8. Screw the bubble back to finish installation.

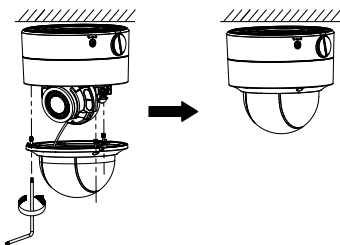


Figure 2-24 Finish Installation

2.3.2 Wall Mounting

Before you start:

You need to purchase a wall mount in advance.

Steps:

1. Install the bracket.
 - i. Secure the base plate to the installation adapter of the bracket.
 - ii. Fix the bracket on the wall.
 - iii. Screw the installation adapter to the bracket.

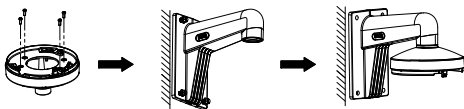


Figure 2-25 Install Bracket

2. Refer to steps 4 to 8 of 2.3.1 *Ceiling Mounting Without Junction Box* to finish installation.

2.3.3 Pendant Mounting

Before you start:

You need to purchase a pendant mount in advance.

Steps:

1. Install the bracket.
 - i. Secure the base plate to the installation adapter of the bracket.
 - ii. Fix the bracket on the ceiling.
 - iii. Screw the installation adapter to the bracket.

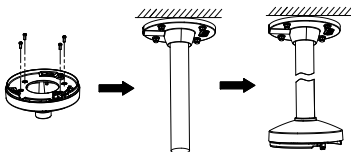


Figure 2-26 Install Bracket

2. Refer to steps 4 to 8 of 2.3.1 *Ceiling Mounting Without Junction Box* to finish installation.

3 Waterproof Measures

If the camera is installed outdoor, you should use the waterproof tapes to waterproof the cables. Otherwise the cables might get wet or a short circuit occurs.

Note:

Waterproof tapes should be purchased separately.

After routing and connecting the cables, use the waterproof tapes to wrap up the cables. Connected cables and spare cables both should be wrapped up as the figures below.

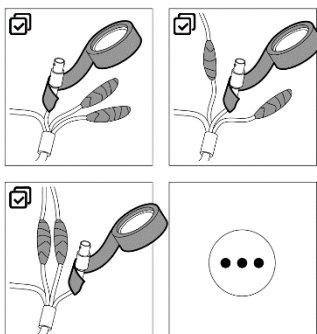


Figure 3-1 Waterproof Cables

4 Menu Description

Please follow the steps below to call the menu.

Note:

The actual display may vary with your camera model.

Steps:

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

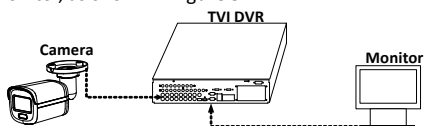


Figure 4-1 Connection

2. Power on the camera, TVI DVR, and 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  button or calling preset No. 95.

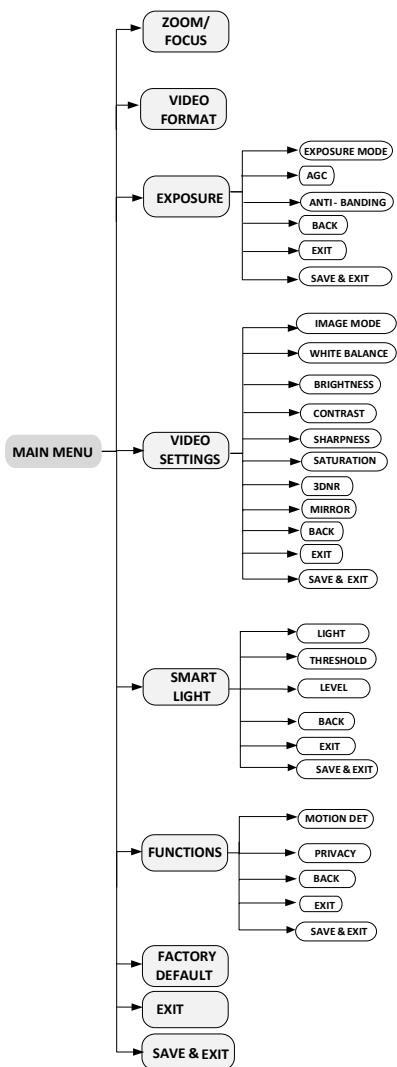


Figure 4-2 Main Menu Overview

5. Click the direction buttons to control the camera.
 - 1). Click up/down direction buttons to select menu options.
 - 2). Click Iris + to confirm the selection.
 - 3). Click left/right direction buttons to adjust the value of the selected option.

4.1 ZOOM/FOCUS

You can zoom in/out and focus near/far by clicking PTZ control panel.

Note:

The device takes effect in 2 to 3 seconds after clicking the PTZ control panel.

4.2 VIDEO FORMAT

You can set the video format to 2MP@25fps, 2MP@30fps, PAL, or NTSC.

4.3 EXPOSURE

EXPOSURE MODE

You can set the **EXPOSURE MODE** to **GLOBAL**, **BLC**, **HLC**, **WDR**, or **HLS**.

- **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 over-exposure of the background where the light is strong.

- **HLC (Highlight Compensation)**

HLC stands for highlight compensation. The camera detects strong spots (over-exposure portion of image) and reduces the brightness of strong spots to improve the overall images.

- **WDR (Wide Dynamic Range)**

The wide dynamic range (WDR) function helps the camera provide clear images even under back light circumstances. When there are both very bright and very dark areas simultaneously in the field of view, WDR balances the brightness level of the whole image and provides clear detailed images.

- **HLS (Highlight Suppression)**

It is the same visual effect as the solar eclipse. If the brightness of a part in the image exceeds the threshold, this part will become black. Then whole image can be clear.

AGC (Auto Gain Control)

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

Note:

The noise will be amplified when setting the **AGC** level.

ANTI-BANDING

ANTI-BANDING is a camera setting that prevents the appearance of horizontal lines (banding) when photographing images in low frequency light and high brightness environments.

4.4 VIDEO SETTINGS

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

VIDEO SETTINGS	
IMAGE MODE	◀ STD ▶
WHITE BALANCE	↶
BRIGHTNESS	◀ 5 ▶
CONTRAST	◀ 5 ▶
SHARPNESS	◀ 5 ▶
SATURATION	◀ 5 ▶
3DNR	◀ 5 ▶
MIRROR	◀ OFF ▶
BACK	↶
EXIT	↶
SAVE & EXIT	↶

Figure 4-3 VIDEO SETTINGS

IMAGE MODE

IMAGE MODE is used to adjust the image saturation, and you can set it to **STD** (Standard), **HIGH-SAT** (High Saturation), or **HIGHLIGHT** (better indoor facial details).

WHITE BALANCE

White balance, the white rendition function of the camera, is to adjust the color temperature according to the environment. It can remove unrealistic color casts in the image. You can set **WHITE BALANCE** mode to **AUTO**, or **MANUAL**.

- **AUTO**

Under **AUTO** mode, white balance is being adjusted automatically according to the color temperature of the scene illumination.

- **MANUAL**

You can set the **R-GAIN/B-GAIN** value to adjust the shades of red/blue color of the image.

WHITE BALANCE	
MODE	◀ MANUAL ▶
R-GAIN	◀ 5 ▶
B-GAIN	◀ 5 ▶
BACK	↶
EXIT	↶
SAVE&EXIT	↶

Figure 4-4 WHITE BALANCE

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.

SHARPNESS

Sharpness determines the amount of detail an imaging system can reproduce.

SATURATION

Saturation is the proportion of pure chromatic color in the total color sensation. Adjust this feature to change the saturation of the color.

3DNR (3D DNR)

3DNR refers to 3D digital noise reduction. Comparing with the general 2D digital noise reduction, the 3D digital noise reduction function processes the noise between two frames besides processing the noise in one frame. The noise will be much less and the video will be clearer.

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.

4.5 SMART LIGHT

Under the **SMART LIGHT** sub-menu, you can set the mode to **OFF** or **AUTO**.

- **OFF**

Set it to **OFF** to give up this function.

- **AUTO**

You can set **THRESHOLD** and **LEVEL** in this section.

THRESHOLD

The higher the threshold is, the more sensitive the device is to dark environment.

LEVEL

You can adjust the maximum brightness of supplement light.

4.6 FUNCTIONS

MOTION DET

MOTION DET refers to motion detection. With motion detection feature, motion can be detected in any part of a camera's view. You can configure full screen or a number of zones in a camera's view where motion is to be detected.

PRIVACY

This function allows you to block or mask certain area of a scene to protect personal privacy from being recorded or live viewed. You can turn on/off the **PRIVACY** to meet your needs.

4.7 FACTORY DEFAULT

Reset all the settings to factory defaults.

4.8 EXIT

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

4.9 SAVE & EXIT

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

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