

# USER MANUAL

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## High Resolution Dome Camera



**Vari-focal Dome**

Please read the instructions thoroughly before using the product.

489a\_V1.0

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## IMPORTANT SAFEGUARD



All lead-free products offered by the company comply with the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive, which means our manufacture processes and products are strictly "lead-free" and without the hazardous substances cited in the directive.



The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products as unsorted municipal waste. Contact your local dealer for procedures for recycling this equipment.



CE Mark

This apparatus is manufactured to comply with the radio interference.

### ***Federal Communications Commission Interference Statement***

This equipment has been tested and found to comply with the limits for a Class B digital service, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device must not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

**FCC Caution:**

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- All external cables connecting to this basic unit must be shielded.  
For cables connecting to PCMCIA cards, see the option manual or installation instructions.

**Disclaimer**

We reserve the right to revise or remove any content in this manual at any time. We do not warrant or assume any legal liability or responsibility for the accuracy, completeness, or usefulness of this manual. The content of this manual is subject to change without notice.

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## FEATURES

1. 1/3" color CCD sensor with SONY Effio DSP
2. High resolution
3. F1.4 Large aperture
4. f3.8 ~ f9.5mm vari-focal lens
5. Min. illumination of 0.05 Lux at F1.4
6. External alarm device connection
7. Customized OSD for camera configuration
8. Vandal-proof housing design (IPxx7)

## PACKAGE CONTENT

Please make sure you have the following items in your sales package:

- Vari-Focal Dome Camera with Power and Video Cable \* 1
- User Manual \* 1

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## FEATURES

1. 1/3" color CCD sensor with SONY Effio DSP
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- User Manual \* 1

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## SPECIFICATIONS\*

|   |   |
|---|---|
| <b>Pick up Element</b>                  | 1/3" Color CCD image sensor with SONY Effio DSP |
| <b>Number of Pixel</b>                  | 768(H)x494(V) <NTSC> / 752(H)x582(V) <PAL>      |
| <b>Resolution</b>                       | Super High Resolution                           |
| <b>Min. Illumination</b>                | 0.05 Lux / F1.4                                 |
| <b>S/N Ratio</b>                        | More than 48dB (AGC off)                        |
| <b>Electronic Shutter</b>               | 1/60 (1/50) to 1/100,000 sec                    |
| <b>Vari-focal Lens</b>                  | f3.8mm ~ f9.5mm                                 |
| <b>Lens Angle</b>                       | 85.4° ~ 36°                                     |
| <b>IRIS Mode</b>                        | AI / AES (Default)                              |
| <b>White Balance</b>                    | ATW   |
| <b>IP Rating</b>                        | IPxx7   |
| <b>External Alarm Device Connection</b> | Alarm in  |
| <b>Video Output</b>                     | 1.0 Vp-p composite, 75Ω                         |
| <b>Power Source (±10%)</b>              | DC12V / 70mA                                    |
| <b>Dimensions (mm)**</b>                | 124.3(Ø) x 92(H)                                |

\* The specifications are subject to change without notice.

\*\* Dimensional Tolerance: ± 5mm

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## LENS ANGLE ADJUSTMENT

The lens can be panned left or right for angle adjustment, maximum 60° respectively from the default position .

## CONNECTION

1. Connect the power connector of the camera to a DC 12V regulated power supply.

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NOTE: Please use a regulated DC12V power adaptor to operate this unit. The power tolerance of this unit is DC12V  $\pm$  10% (DC 10.8V ~ DC 13.2V). A power input of more than the DC 13.2V will damage this unit.

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2. Connect the camera video output to the input of the DVR with a 75 $\Omega$  coaxial cable.
3. (Optional) Connect to an alarm device as described in the manual of the alarm device with the “**Alarm in**” and “**GND**” wires. Then, go to DVR’s menu (**ADVANCED CONFIG  $\rightarrow$  DETECTION  $\rightarrow$  ALARM**) to enable alarm detection.

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## INSTALLATION

### Step1 Remove the Dome Cover

Remove the Dome Cover by turning it counterclockwise to the end and then take it off.



### Step2 Remove the Black Shield Case

First, unscrew the Black Shield Case. Then remove it by pressing the two sides and then pulling it outward.



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## INSTALLATION

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### Step2 Remove the Black Shield Case

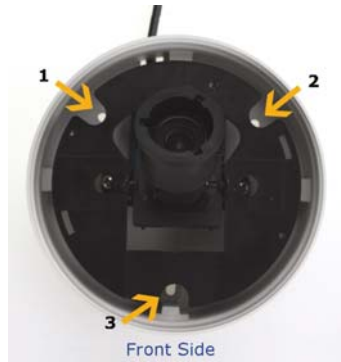
First, unscrew the Black Shield Case. Then remove it by pressing the two sides and then pulling it outward.



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### Step3 Align the screw holes

Rotate the lens plate to the front side of the camera, and align the gaps on the plate with the three screw holes respectively as indicated below. Then, aim the lens to the place you want to watch.



### Step4 Attach the camera to the ceiling

Attach the camera to the ceiling with three screws.

Then, connect the power and video cable to the power supply and the input of the DVR for later adjustments.

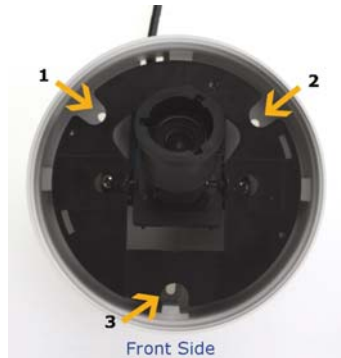
Note:

1. Screws are not supplied with the sales package. For installation, please purchase the suitable screws.
2. For safety, always let the power and video line concealed behind the installation position.

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Note:

1. Screws are not supplied with the sales package. For installation, please purchase the suitable screws.
2. For safety, always let the power and video line concealed behind the installation position.

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### Step5 Adjust the angle of the camera

To adjust the angle of the camera, swivel the black rotatable plate from the center to the left or to the right, maximum 60° (Pan).

Adjust the tilt angle by moving the lens, maximum 90° (Tilt).

Use a flat-headed screwdriver to loosen the pivots on the lens. First adjust the 1<sup>st</sup> pivot to zoom-in / out (Zoom). Second, adjust the 2<sup>nd</sup> pivot to fine-tune the clearness of the images. Secure these two pivots after the adjustment is completed.

Finally fasten the screw on the side of lens to fix the tilt angle after the optimized positioning is achieved.



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Note: When adjusting the title angle, please do not tilt the camera lens more than 90°.

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**Step6 Replace the Black Shield Case**

Replace the Black Shield Case to the camera base. Ensure that the Black Shield Case does not cover the lens.



**Step7 Replace the Dome Cover**

Replace the dome cover to the camera base and turn it clockwise to the end to secure it.



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Replace the dome cover to the camera base and turn it clockwise to the end to secure it.



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## CAMERA CONFIGURATION

This camera has its own menu for parameter settings. To enter the menu, please connect this camera with a DCCS-enabled DVR, or used with our control box, AVK-T1, when it's connected to a non-DCCS DVR.

### ➤ Enter camera menu

Connect the supplied power adapter to the camera's power jack on the rear panel and the power outlet.

Below shows how to enter the camera menu with a DCCS-enabled DVR.

STEP1: When the DVR is powered on, check the channel with this camera connected, and see if the DCCS connection icon  is shown.

STEP2: Enter the camera menu.


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STEP1: When the DVR is powered on, check the channel with this camera connected, and see if the DCCS connection icon  is shown.

STEP2: Enter the camera menu.

### From DCCS menu

Right-click to display the DVR main menu, and select **“ADVANCED CONFIG”** → **“DCCS”**.

| ADVANCED CONFIG |                  |
|-----------------|------------------|
| CANERA          | CH1 CH2 CH3 CH4  |
| DETECTION       | DIAGNOSTIC START |
| ALERT           | MENU SETUP       |
| NETWORK         |                  |
| DISPLAY         |                  |
| RECORD          |                  |
| DEVICES         |                  |
| <b>DCCS</b>     | DEVICE OSD CAM   |
| IVS             | CONNECTION OK    |
| NOTIFY          |                  |
| EXIT            |                  |

Select **“MENU”** → **“SETUP”** to enter the camera menu.

- To move between each option, select “↑” / “↓”;
- To change parameter values, select “←” / “→”;
- When you see ← with an option, select “←”;
- To exit the menu and return to the main menu, select “X”.

### From DCCS menu

Right-click to display the DVR main menu, and select **“ADVANCED CONFIG”** → **“DCCS”**.

| ADVANCED CONFIG |                  |
|-----------------|------------------|
| CANERA          | CH1 CH2 CH3 CH4  |
| DETECTION       | DIAGNOSTIC START |
| ALERT           | MENU SETUP       |
| NETWORK         |                  |
| DISPLAY         |                  |
| RECORD          |                  |
| DEVICES         |                  |
| <b>DCCS</b>     | DEVICE CAMERA    |
| IVS             | CONNECTION OK    |
| NOTIFY          |                  |
| EXIT            |                  |

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## ➤ Camera menu

| SUB-MENU      | DESCRIPTION   |
|---------------|---|
| SHUTTER / AGC | <ol style="list-style-type: none"> <li>1. Select "AUTO" to allow the camera to act automatically when the light condition of the environment changes.</li> <li>2. Select "MANUAL" to fix the shutter and AGC modes of the camera no matter how the light condition of the environment changes.</li> </ol> |
| WHITE BAL     | Process the current image to retain color balance over a color temperature range.   |
| BACKLIGHT     | Adjust the image to compensate for an area that is overpowered by brightness because of excessive light.<br>"BLC" is to automatically adjust the level of the light to show more details in the dark environment.<br>"HLC" is to mask extremely bright areas.   |
| PICT ADJUST   | Adjust the color of the pictures in, for example, brightness, contrast, sharpness and hue.  |
| ATR           | D-WDR to increase the image recognizability of the overexposed and dark areas.  |
| PRIVACY       | Mask areas that should be not visible.  |
| DAY / NIGHT   | Set the night surveillance mode to color or B/W.  |
| NR            | Reduce noise by separating luminance (Y) and chrominance (C) settings.  |
| CAMERA ID     | Set the title of the camera.  |
| LANGUAGE      | Select the language of the menu on-screen display.  |
| CAMERA RESET  | Press ↵ to restore all settings to their factory default values.  |

## ➤ Camera menu

| SUB-MENU      | DESCRIPTION   |
|---------------|---|
| SHUTTER / AGC | <ol style="list-style-type: none"> <li>3. Select "AUTO" to allow the camera to act automatically when the light condition of the environment changes.</li> <li>4. Select "MANUAL" to fix the shutter and AGC modes of the camera no matter how the light condition of the environment changes.</li> </ol> |
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| CAMERA RESET  | Press ↵ to restore all settings to their factory default values.  |



➤ **Camera menu tree**

| SUB-MENU      | OPTIONS   |  |  |                               |
|---------------|-----------|--|--|-------------------------------|
| SHUTTER / AGC | AUTO↵     | HIGH LUMINANCE   | MODE   | AUTO IRIS / SHUT+AUTO IRIS    |
|               |           |  | BRIGHTNESS   | 0 ~ 255                       |
|               |           | LOW LUMINANCE  | MODE   | AGC / OFF                     |
|               |           |  | BRIGHTNESS   | x0.25 / x0.50 / x0.75 / x1.00 |
|               | MANUAL↵   | MODE   | SHUT + AGC   |                               |
|               |           | SHUTTER  | 1/50; 1/120; 1/250; 1/500; 1/1000; 1/2000; 1/4000; 1/10000 |                               |
| AGC           |           | 6.00 / 12.00 / 18.00 / 24.00 / 30.00 / 36.00 / 42.00 / 44.80 |  |                               |
| WHITE BAL     | ANTI CR   |  |  |                               |
|               | MANUAL↵   | LEVEL  | 012 ~ 031  |                               |
|               | PUSH LOCK |  |  |                               |
|               | ATW↵      | SPEED  | 0 ~ 255  |                               |
|               |           | DELAY CNT  | 0 ~ 255  |                               |
|               |           | ATW FRAME  | x0.50 / x1.00 / x1.50 / x2.00                              |                               |
| ENVIRONMENT   |           | INDOOR / OUTDOOR   |  |                               |

➤ **Camera menu tree**

| SUB-MENU      | OPTIONS   |  |  |                               |
|---------------|-----------|--|--|-------------------------------|
| SHUTTER / AGC | AUTO↵     | HIGH LUMINANCE   | MODE   | AUTO IRIS / SHUT+AUTO IRIS    |
|               |           |  | BRIGHTNESS   | 0 ~ 255                       |
|               |           | LOW LUMINANCE  | MODE   | AGC / OFF                     |
|               |           |  | BRIGHTNESS   | x0.25 / x0.50 / x0.75 / x1.00 |
|               | MANUAL↵   | MODE   | SHUT + AGC   |                               |
|               |           | SHUTTER  | 1/50; 1/120; 1/250; 1/500; 1/1000; 1/2000; 1/4000; 1/10000 |                               |
| AGC           |           | 6.00 / 12.00 / 18.00 / 24.00 / 30.00 / 36.00 / 42.00 / 44.80 |  |                               |
| WHITE BAL     | ANTI CR   |  |  |                               |
|               | MANUAL↵   | LEVEL  | 012 ~ 031  |                               |
|               | PUSH LOCK |  |  |                               |
|               | ATW↵      | SPEED  | 0 ~ 255  |                               |
|               |           | DELAY CNT  | 0 ~ 255  |                               |
|               |           | ATW FRAME  | x0.50 / x1.00 / x1.50 / x2.00                              |                               |
| ENVIRONMENT   |           | INDOOR / OUTDOOR   |  |                               |

| SUB-MENU    | OPTIONS            |   |  |         |
|-------------|--------------------|---|--|---------|
| WHITE BAL   | PUSH               |   |  |         |
|             | USER1↵ /<br>USER2↵ | B – GAIN /<br>R – GAIN                                  | 0 ~ 255                                |         |
| BACKLIGHT   | OFF / BLC / HLC    |   |  |         |
| PICT ADJUST | ↵                  | MIRROR  | OFF / ON                               |         |
|             |                    | BRIGHTNESS /<br>CONTRAST /<br>SHARPNESS /<br>HUE / GAIN | 0 ~ 255                                |         |
| ATR         | OFF                |   |  |         |
|             | ON↵                | LUMINANCE   | LOW / MID / HIGH                       |         |
|             |                    | CONTRAST  | LOW / MIDLOW / MID / MIDHIGH /<br>HIGH |         |
| PRIVACY     | OFF                |   |  |         |
|             | ON↵                | AREA SEL  | 1/4; 2/4; 3/4; 4/4                     |         |
|             |                    |   | TOP / BOTTOM                           | 0 ~ 288 |
|             |                    |   | LEFT / RIGHT                           | 0 ~ 370 |
|             |                    | COLOR   | 1 ~ 8                                  |         |
|             |                    | TRANSP  | 0.00 / 0.50 / 0.75 /<br>1.00           |         |
|             | MOSAIC             | ON / OFF  |  |         |

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| SUB-MENU    | OPTIONS            |   |  |         |
|-------------|--------------------|---|--|---------|
| WHITE BAL   | PUSH               |   |  |         |
|             | USER1↵ /<br>USER2↵ | B – GAIN /<br>R – GAIN                                  | 0 ~ 255                                |         |
| BACKLIGHT   | OFF / BLC / HLC    |   |  |         |
| PICT ADJUST | ↵                  | MIRROR  | OFF / ON                               |         |
|             |                    | BRIGHTNESS /<br>CONTRAST /<br>SHARPNESS /<br>HUE / GAIN | 0 ~ 255                                |         |
| ATR         | OFF                |   |  |         |
|             | ON↵                | LUMINANCE   | LOW / MID / HIGH                       |         |
|             |                    | CONTRAST  | LOW / MIDLOW / MID / MIDHIGH /<br>HIGH |         |
| PRIVACY     | OFF                |   |  |         |
|             | ON↵                | AREA SEL  | 1/4; 2/4; 3/4; 4/4                     |         |
|             |                    |   | TOP / BOTTOM                           | 0 ~ 288 |
|             |                    |   | LEFT / RIGHT                           | 0 ~ 370 |
|             |                    | COLOR   | 1 ~ 8                                  |         |
|             |                    | TRANSP  | 0.00 / 0.50 / 0.75 /<br>1.00           |         |
|             | MOSAIC             | ON / OFF  |  |         |

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| SUB-MENU     | OPTIONS  |             |                |
|--------------|--|-------------|----------------|
| DAY/NIGHT    | COLOR  |             |                |
|              | B/W↵   | BURST       | ON / OFF       |
|              | AUTO↵  | BURST       | ON / OFF       |
|              |  | DELAY CNT   | 0 ~ 255        |
|              |  | DAY-> NIGHT | 0 ~ 255        |
| NIGHT-> DAY  | 0 ~ 255  |             |                |
| NR           | ↵  | NR MODE     | Y/C; Y; C; OFF |
|              |  | Y LEVEL     |                |
|              |  | C LEVEL     |                |
| CAMERA ID    | OFF / ON↵  |             |                |
| LANGUAGE     | ENGLISH / 日本語 / DEUTSCH / FRANCAIS / РУССКИЙ / PORTUGUÊS / ESPAÑOL |             |                |
| CAMERA RESET |  |             |                |

| SUB-MENU     | OPTIONS  |             |                |
|--------------|--|-------------|----------------|
| DAY/NIGHT    | COLOR  |             |                |
|              | B/W↵   | BURST       | ON / OFF       |
|              | AUTO↵  | BURST       | ON / OFF       |
|              |  | DELAY CNT   | 0 ~ 255        |
|              |  | DAY-> NIGHT | 0 ~ 255        |
| NIGHT-> DAY  | 0 ~ 255  |             |                |
| NR           | ↵  | NR MODE     | Y/C; Y; C; OFF |
|              |  | Y LEVEL     |                |
|              |  | C LEVEL     |                |
| CAMERA ID    | OFF / ON↵  |             |                |
| LANGUAGE     | ENGLISH / 日本語 / DEUTSCH / FRANCAIS / РУССКИЙ / PORTUGUÊS / ESPAÑOL |             |                |
| CAMERA RESET |  |             |                |