VANDAL-PROOF & WATERPROOF IR D&N DOME CAMERA

DOME5IR25VH-H2ID DOME5IR25VH-H2WID MANUAL



• FEATURES

- 1. IP67(Waterproof)
- 2. Durable MATERIAL: Body Aluminum. Dome Polycarbonate
- This camera is incredibly flexible to install with its 3-axis camera construction, which makes the camera ceiling, wall or slope mountable.
- 4. 25M range visible in total darkness with 24pcs of IR LEDs.
- Adopted DNR technology, It reduces noise efficiently in low light condition.
- 6. Advanced High Resolution (580 TV-Line)
- 7. Day & Night function(ICR)
- 8, Support 8 different privacy zone
- 9. Provide Max, 10x digital zoom
- 10. WDR(Wide dynamic range): SK-V251IR(D)/M945Al only
- DIS(Digital Image stabilizer) relieves any picture tremble due to external factor such as wind.
- 12. Multi-language full OSD support

PRECAUTION

- 1. You can install the camera indoors or outdoors.
- Choose an ideal location for the camera, since a camera unit must be protected against vibration.
- Be careful not to scratch the camera unit, especially lens or dome cover.
- 4. Use the camera within the temperature($-25^{\circ}\text{C} \sim +50^{\circ}\text{C}$). [W/HEATER(option)]
- 5. Avoid any direct sun light toward the lens.
- Use the AC adaptor 12V DC, 1A regulated. Dual voltage product can use 24V AC, 1A adaptor.(option)

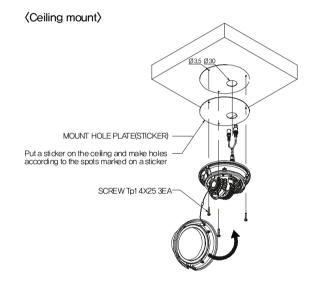


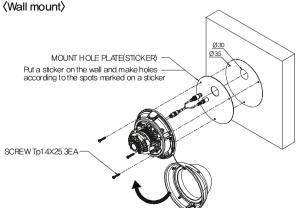
If the product is to be put out of operation definitively, take it to a local recycling plant for a disposal which is not harmful to the environment,

• HOW TO INSTALL

1 Camera installation

- (1) Fix the camera set with the supplied screws on ceiling or wall mount, If you don't use supplied screws, the camera may fall off,
- (2) Please refer to '3, Camera angle adjustment' regarding adjust camera angle
- (3) Lens adjustment(Vari-focal Lens only) After opening the LED cover.
 - By turning the "Tele-Wide" knob, you can access a range of focal lengths within specified limits,
 - ② Since then, by turning the "Near-Far' knob, you can set the focus toward the wanted object,
- (4) Re-assemble the camera.

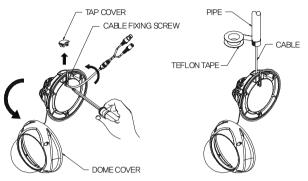




2. Pipe application

- (1) Remove the screw for fixing a cable on the bottom of the base.
- (2) Open the DOME COVER.
- (3) Remove the TAP COVER and place the cables there.
- (4) After distributing cables, use the TEPLON tape to wipe the pipe.
- (5) Combine the pipe to the base.

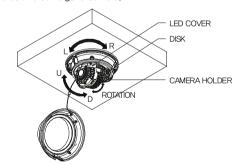
⟨Caution⟩ If you don't wipe TEFLON tape on pipe, it might cause troubles on water-resistant,



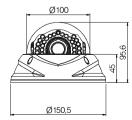
3. Camera angle adjustment:

- (1) Pan adjustment: Grasp the disk of camera and then adjust direction to the right or left(-160° \sim 190°)
- (2) Tilt adjustment : Grasp the LED cover of camera and then adjust direction to the up or down($6^{\circ} \sim 90^{\circ}$)
- (3) Roll adjustment : Grasp the camera holder and then rotate $(-178^{\circ} \sim 178^{\circ})$

(Caution) If you try to adjust the camera out of limited angle, it might cause troubles and damage to camera.



DIMENSION





● SPECIFICATION

| Model No. | DOME5IR25VH-H2ID DOME5IR25VH-H2V | | |
|------------------------|--|-----------------------|--|
| Image Sensor | 1/3" SONY SUPER HAD CCD II 1/3" SONY DS CCD | | |
| Effective Pixel | 768(H) X 494(V) PIXEL(NTSC), 752(H) X 582(V) PIXEL(PAL) | | |
| Cell Size | 6.35µm(H) × 7.4µm(V) (NTSC), 6.5µm(H) × 6.25µm(V) (PAL) | | |
| Scanning System | 2:1 ln | terlace | |
| Sync. Type | Internal / Line | e lock(Option) | |
| OSD | Multi-la | nguage | |
| Backlight | BLC / HLC / OFF | BLC / HLC / WDR / OFF | |
| Resolution | Color: 580 TV-Line | , B/W:700 TV-Line | |
| S/N Ratio | 52 dB(AGC OF | F, Weight ON) | |
| Min, Illumination | LED ON: 0 Lux(25 Range) LED OFF: 0.001 Lux(Color Sense-up), 0.0004 Lux(B/W Sense-up) | | |
| White Balance | ATW / AWC / MANUAL / OUTDOOR(1800°K ~ 10,500°K)/ INDOOR(4,500°K ~ 8,500°K) | | |
| Shutter | 1/60(1/50) ~ 1/120,000sec | | |
| Sense Up | AUTO / FIXED / OFF(x2 \sim x256 selectable) | | |
| Gain Control | LOW / HIGH / OFF | | |
| DNR | OFF / ON(1 \sim 32 Level adjustable) | | |
| Motion Detection | ON / OFF(8 Zone, Alarm output) | | |
| Privacy | ON / OFF(8 Zone) | | |
| Mirror | H / V / BOTH / OFF | | |
| Freeze Image | ON / OFF | | |
| Sharpness | ON / OFF(Level adjustable) | | |
| D&N | COLOR / Black&White / AUTO / EXT(Option) | | |
| DIS | ON / OFF | | |
| Digital Zoom | ON(x10) / OFF | | |
| DPC | 256 point(Even 128 point, ODD 128 point) | | |
| Communication (Option) | RS-485(PELCO-D Protocol) | | |
| Power Supply | 12V DC ±10%(24V AC : Option) | | |
| Current Consumption | 150mA(LED OFF), 500mA(LED ON) | | |
| Operation Temp. | $-10\sim50^{\circ}\mathrm{C}$ / 30% to 80% RH | | |
| Preservation Temp. | $-20\sim60$ $^{\circ}$ $^{\prime}$ $^{\prime}$ $^{\prime}$ 20% to 90% RH | | |
| Dimension | Ø150.5X 95.6(H)mm | | |
| Weight | Approx. 800g | | |

● FUNCTION SETTING

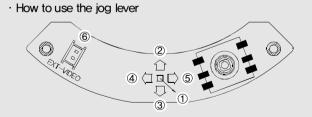
· OSD menu structure

| Select menu Sub menu Contents Contents | | | | | |
|--|--------------|--|---------------------------------------|---|--|
| 1. LENS MANUAL Manual mode is not recommended using built—in the DC Lens Manual mode is not recommended using built—in the DC Lens Manual mode is not recommended using built—in the DC Lens Manual setting is not selectable when selected DC Lens Manual setting is not selectable when selected DC Lens OFF LOW -1 Manual setting is not selectable when selected DC Lens OFF Deactivates function OFF Deactivates function OFF Deactivates function AUTO : Using sense up when it is lowluminance (x2 - x256 selectable) Manual setting is not available Manual setting is not selectable when selected DC Lens OFF Deactivates function AUTO : Using sense up when it is lowluminance (x2 - x256 selectable) Manual Manua | | Select menu | Sub menu | Contents | |
| MANUAL Manual mode is not recommended using built—in the DC Lens SHUTTER AGC MANUAL Auto, Manual setting is not selectable when selected DC Lens OFF. LOW_J., HIGH_J. HIGH_J. HIGH_J. HIGH_J. HIGH_J. OFF. Deactivates function LOW: Auto selection between 5,3dB and 32dB HIGH: Auto selection between 5,3dB and 37dB (You can not use the DIS, Day&Night) When AGC is off) When AGC is off) When AGC is off) When AGC is off) AUTO: Using sense up when it is low luminance (X2~X256 selectable) RETURN *Notes: If the AGC is off, the sense—up function is not available As the sense—up level increases, an after—image will appear ATW Color temperature 4500 ~ 8500°K OUTDOOR Color temperature 4500 ~ 8500°K OUTDOOR AWC — SET MANUAL AGJust the Red or Blue values to shift the color of the object of the object MANUAL AGJust the Red or Blue values to shift the color of the object WDR MASK COLOR Removed HIGH LIGHT, It enable us to watch license plate clearly WDR MAX, VALUE, LEVEL *Note that the function of WDR supported on SK–V25tIR(D)/M945AI only BLO LEVEL *Note that the function of WDR supported on SK–V25tIR(D)/M945AI only BLO OFF Deactivates function *Notes: if the AGC is off, the DNR function is not available AUTO DWELL TIME Day: Color — Night: B/W(Switching time addigatable) Fixed at color(LED OFF) B/W *Notes: if the AGC is off, the DNR function is not available FREEZE OFF, ON Set a vertical image inversion D-ZOOM OFF, ON, J SHARPNESS OFF, ON, J Please refer to "Special setup" 8. SPECIAL 8. SPECIAL Please refer to "Special setup" | 1. LENS | DC | BRIGHTNESS | 1∼70, Default value : 25) | |
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| AGC OFF. LOW_J. HIGH - Jul oselection between 5.3dB and 37dB HIGH - Jul oselection to use the DIS, Day&Night When AGC is off). SENS-UP OFF. AUTO JUL oselection between 5.3dB and 37dB HIGH - Jul oselection high make the position of the sense purpose up when the Jul oselection between 5.3dB and 37dB HIGH - Jul oselection between 5.3d | 2. EXPOSURE | SHUTTER | , FLK, AUTO, MANUAL | | |
| SENS-UP OFF. AUTO_J AUTO-LIsing sense up when it is low luminance (x2~x256 selectable) RETURN RETURN **Notes: If the AGC is off, the sense-up function is not available As the sense-up level increases, an after-image will appear ATW Color temperature 1800 ~ 10500°K INDOOR Color temperature 1800 ~ 10500°K INDOOR Color temperature 1800 ~ 10500°K AWC — SET Find the optimal white balance for current luminance environment(The camera focus must towards to white paper) MANUAL Adjust the Red or Blue values to shift the color of the object OFF Deactivates function BLC TOP, BOTTOM, LEFT, RICHT, LEFT, LEVEL WDR MAX_VALUE, Select WDR to adjust WDR sensitivity and brightness *Note that the function of WDR supported on SK-V251IR(D)/M945Al only ON LEVEL Select WDR to adjust WDR sensitivity and brightness *Notes: If the AGC is off, the DNR function is not available AUTO DWELL TIME Day: Color — Night: B/W(Switching time adjustable) 6. DAY/NIGHT COLOR Fixed at color(LED OFF) B/W Fixed at B/W(LED ON) *Notes: If the AGC is off, this function is unavailable FREEZE OFF, ON Set a vertical image inversion H—REV OFF, ON Set a horizontal image inversion H—REV OFF, ON Set a horizontal image inversion The image outline will be strong and clear according to sharpness level increasing(Default is 12) it this function is Off, it may looks like unforcused RETURN 8. SPECIAL PACS is efter to "Special setup" | | AGC | LOW_J. | LOW: Auto selection between 5.3dB and 32dB | |
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| 4. BACKLIGHT HLC MASK COLOR Removed HIGH LIGHT, It enable us to watch license plate clearly WDR MAX, VALUE, Select WDR to adjust WDR sensitivity and brightness *Note that the function of WDR supported on SK-V25IIR(D)/M945AI only ON LEVEL ORF Deactivates function *Notes: If the AGC is off, the DNR function is not available AUTO DWELL TIME Day: Color → Night: B/W(Switching time addistable) AUTO DWELL TIME Day: Color → Night: B/W(Switching time addistable) Fixed at color(LED OFF) B/W Notes: If the AGC is off, this function is unavailable FREEZE OFF, ON You can get a still image V-REV OFF, ON Set a vertical image inversion H-REV OFF, ON Set a vertical image inversion H-REV OFF, ON Set a horizontal image inversion H-REV OFF, ON Set a horizontal image inversion H-REV OFF, ON The image outline will be strong and clear according to sharpness level increasing(Default is 12) if this function is Off, it may looks like unfocused RETURN 8. SPECIAL Please refer to "Special setup" | | OFF | | Deactivates function | |
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| The AGC is off, the DNR function is not available AUTO DWELL TIME DNR function is not available AUTO DWELL TIME Day: Color → Night: B/W(Switching time adjustable) COLOR Fixed at color(LED OFF) B/W Fixed at B/W(LED ON) *Notes: If the AGC is off, this function is unavailable FREEZE OFF, ON You can get a still image V-ReV OFF, ON Set a vertical image inversion H-REV OFF, ON Set a horizontal image inversion B-ZOOM OFF, ON Set a horizontal image inversion The image outline will be strong and clear according to sharpness level increasing/Default is 12) if this function is Off, it may looks like unfocused RETURN SPECIAL Special setup" | E DND | | LEVEL | | |
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| 7. IMAGE ADJ SHARPNESS OFF, ON_J Max 10x digital zoom available(Default value is 0) The image outline will be strong and clear according to sharpness level increasing(Default is 2) if this function is Off, it may looks like unfocused RETURN Save the value then move back to previous menu 8. SPECIAL Please refer to "Special setup" | | | OFF, ON | | |
| 7. IMAGE ADJ SHARPNESS OFF, ON_J SHARPNESS OFF, ON_J The image outline will be strong and clear according to sharpness level increasing(Default is 12) if this function is Off, it may looks like unfocused RETURN Save the value then move back to previous menu Please refer to "Special setup" | | | | 9 | |
| SHARPNESS OFF, ON_J cording To sharpness level increasing(Default is 12) if this function is Off, it may looks like unfocused RETURN Save the value then move back to previous menu 8. SPECIAL Please refer to "Special setup" | | D-ZOOM | OFF, ON⊸J | | |
| 8. SPECIAL Please refer to "Special setup" | | SHARPNESS | OFF, ON_J | cording to sharpness level increasing(Default is 12) If this function is Off, it may looks like unfocused | |
| 1 loade folds to openial details | | RETURN | | | |
| 9. EXIT Save the value and exit menu | 8. SPECIAL | | | Please refer to "Special setup" | |
| | 9. EXIT | | | Save the value and exit menu | |

- · The '_' icon appeared with desired function, press the set button to move sub menu.
- \cdot The '--' icon appeared with function that is unavailable according to function setting,

| Special setting menu | Select menu | Sub menu | Contents |
|----------------------|-------------|-----------------------|---|
| 1. CAM TITLE | OFF | | No title displays on the screen |
| | ON | CAMERA TITLE SETUP | Display the camera's title on the screen(Max. 15character, position adjustable) |
| 2. SYNC | INT | | Internal Sync with 12V DC power |
| | LL | | Setting the phase is selectable when used 24V AC(Dual power only) |

| 3. MOTION DET : OFF/ON | SENSITIVITY | AREA 1 ~ AREA 8 | When sensitivity number is high, also motion detection sensitivity will increase (Area 1 \sim Area 8) |
|---------------------------|----------------|---------------------------------------|---|
| | AREA MODE | OFF, ON | Determines whether to use the MD area selected in SENSITIVITY |
| | SEL POS | L_TOP/R_TOP/ L_BOTTOM/R_ BOTTOM | Determines which of the 4 vertices of each MD area is to be used |
| | YPOS | | Determines the coordinate of the vertical axis for SEL POS |
| | XPOS | | Determines the coordinate of the horizontal axis for SEL POS |
| | FILL → SET | | Fill the color in selected area(The color of filling is sequentially selected as brown, orange, blue, cyan, yellowish green, yellow, magenta and red) |
| | RETURN | | Save the value then move back to previous menu |
| | *Notes:Iftheca | amera detected mo | tion, "MOTION DETECTED" will appear on the screen |
| | AREA SEL | AREA1∼ AREA8 | Select privacy zone up to 8 area |
| | AREA MODE | ON-J, OFF | Determines use the area or not, and setting the size and position of the area |
| 4. PRIVACY : OFF/ON | MASK COLOR | | Fill the color in selected area(Gray, Green, Blue, Black, White) |
| | TRANSP | 0~3 | Setting transparency of selected area (0 : opacity \sim 3 : transparency) |
| | RETURN | | Save the value then move back to previous menu |
| 5. DIS | ON | | This function can be mitigates image movement from external factors(This function uses digital zoom) |
| | OFF | | Deactivates function |
| | CAM ID | | Setting the camera ID(0 ~ 255, Default1) |
| | BAUD RATE | | Selects baud rate(2400 \sim 57600bps, Default : 2400) |
| 6 COMM ADJ | UART MODE | | Parity bits selectable(NONE, EVEN, ODD) |
| (option) | RET PKT | OFF, ON | Determines whether to send a command back to the controller device when a communica— tion control command is sent to the camera |
| | DISP ID | OFF, ON | Display the camera ID on the screen |
| | *Notes: PELC | O-D protocol only | / |
| 7. LANGUAGE | | | Select language |
| 8. RESET | | | To reset your camera to factory default condition(Notice: COM ADJ and Language is not changed) |
| 9. RETURN | | | Save the value then move back to previous menu |



(1)ENTER

- · Push the lever: Used to access the menu and confirm selection.
- \cdot Push the lever for one second : Open the menu or close the menu.
- ②Up, ③Down: Used to move the cursor to up or down.
- **(4) Left,** (5) Right: Used to move the cursor to left or right and change the value.
- ⑥EXT-VIDEO: Extra video output terminal for installation, Plug your test monitor in hear, The cable is option.