

Snapit

Indoor Dome Camera

DWC-D4367WD DWC-D4367WTIR



ABOUT MANUAL

Before installing and using the camera, please read this manual carefully. Be sure to keep it handy for future reference.

PRECAUTIONS

- Do not open or modify.
- Do not open the case except during maintenence and installation, for it may be dangerous and can cause damages.
- Do not put objects into the unit.
- Keep metal objects and flammable substances from entering the camera. It can cause fire, short-circuits, or other damages.
- Be careful when handling the unit.
- To prevent damages, do not drop the camera or subject it to shock or vibration.
- Do not install near electric or magnetic fields.
- Protect from humidity and dust.
- Protect from high temperature.
- Be careful when installing near the ceiling of kitchen or a boiler room, as the temperature may rise to high levels.
- Cleaning:

To remove dirt from the case, moisten a soft cloth with a soft detergent solution and wipe.

■ Mounting Surface:

The material of the mounting surface must be strong enough to support the camera.

FCC COMPLIANCE

This equipment has been tested and found to comply with the limits for a Class B 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 residential environment. This equipment generates, uses, and radiates radio frequency energy; and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications.

WARNING: Changes or modifications are not expressly approved by the manufacturer.



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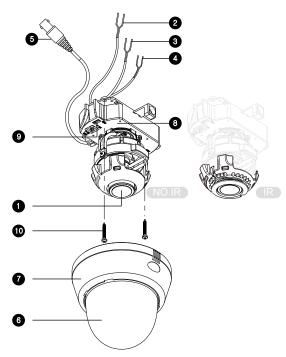
FEATURES*

- 1/3" Sony Super HAD CCD II
- 620 TV Lines (B&W), 600 TV Lines (Color)
- 3.3~12mm Varifocal Auto Iris Lens
- 70ft Range IR with Intelligent Camera Sync [DWC-D4367WTIR Only]
- Electronic Day and Night [DWC-D4367WD Only]
- TDN (True Day and Night / IR Cut Filter) [DWC-D4367WTIR Only]
- Smart DNR (Digital Noise Reduction)
- WDR (Wide Dynamic Range)
- Star-Light (Super Low Light Technology)
- HME (Highlight Masking Exposure)
- Programmable Privacy Zones & Motion Detection
- Easy Icon Driven OSD Menu with Built-In Joystick
- UTP & RS485 Built-In
- Auto Sensing 12VDC or 24VAC with Line Lock
- Secondary Video-BNC Output



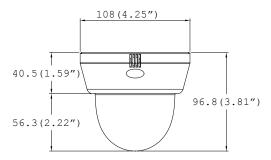
PART & DESCRIPTIONS*

- 1 Lens
- Power Input Connctor 12VDC/24VAC Dual Voltage
- 3 UTP
- **4** RS-485
- 5 Primary Video BNC-Output Connector
- 6 Bubble Dome Cover
- Upper Case
- 8 Camera Control Board
- 9 Secondary Video-BNC Output Connector
- Mounting Screws

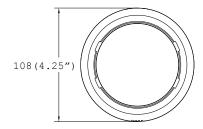


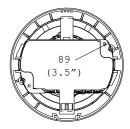
DIMENSIONS IN MILLIMETERS (IN)*

Surface Mount



Top View



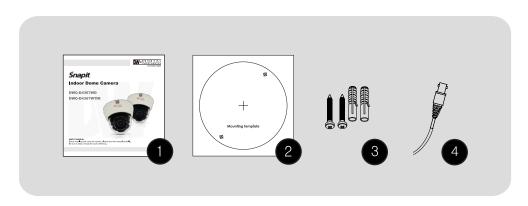




INSIDE THE BOX*

Included with Snapit Indoor Dome Camera

- User Manual
- Mounting Template
- 3 2 Machine Screws and 2 Dry Wall Anchors
- 4 Secondary Video-BNC Cable





SURFACE MOUNT INSTALLATION INSTRUCTIONS*



 Squeeze the sides of the camera and separate the camera module from the dome cover



② Use the camera's mounting template or your camera to mark the holes as required.



3 Drill holes into the drywall and insert the drywall mounts into the holes.



• Pull wires through and make connections. Then, mount the camera to the wall using the included machine screws



 Adjust the camera lens position by using the 3-Axis Gimbal



6 Snap the dome cover over the camera module.

WALL MOUNT INSTALLATION INSTRUCTIONS*



Check to see all parts are in the box.



② Use the mount to mark the pilot holes that are required. Drill holes into the drywall and insert the drywall mounts.



Secure the wall mount to the wall using the mounting screws.



 Attach the base of the camera to the wall mount with the smaller machine screws.

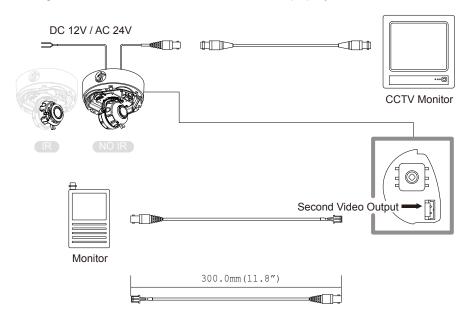


Adjust the camera lens, and snap the dome cover over the camera module



CONNECTING TO MONITORS*

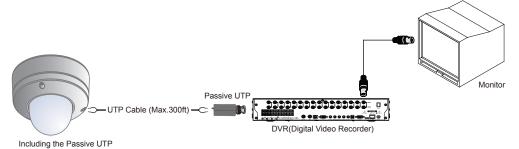
Use the diagram below to connect to a Monitor or CRT Monitor properly.

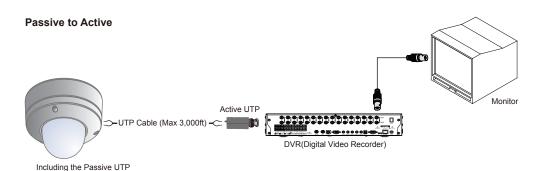


Power Connection: 12VDC & 24VDC Dual Voltage (Auto Polarity Detection and Protection) All cameras are equipped with a second video output for on-site configuration.

UTP SYSTEM*

Passive to Passive

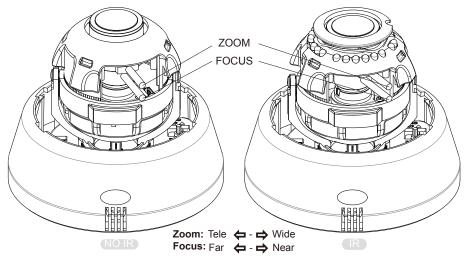






ADJUSTING THE CAMERA LENS*

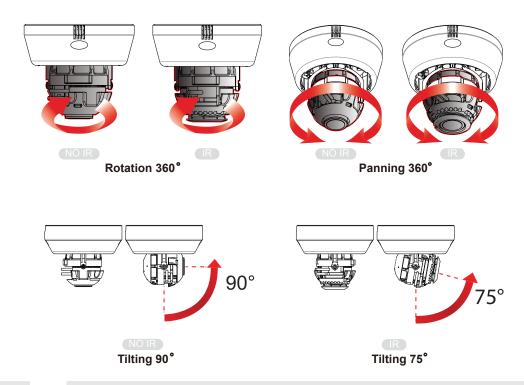
Follow the instructions provided below to make any lens adjustments.



- 1 Loosen the Zoom & Focus Handles by rotating them counter-clockwise.
- Adjust the field of view by moving the handles to the RIGHT (Tele) to zoom in, or to the LEFT (Wide) to zoom out.
- 3 Adjust the focus the same way as described above AFTER the desired zoom position is established.
- 4 Once the desired adjustments have been made, please tighten the handles back by turning them clockwise.

ADJUSTING THE 3-AXIS GIMBAL*

The Gimbal mechanism yields maximum rotation and placement as shown below.



MODULE OSD MENU*

EXPOSURE	COLOR	DAY & NIGHT	FUNCTION
LENS MANUAL / DC BACKLIGHT OFF (BLC) / IME / WDR AGC OFF (LOW / MID / HIGH / HIGHEST STRLIGHT OFF REACH JENNING STRLIGHT OFF REACH OFF REACH STRLIGHT OFF REACH OFF RE	WB MODE AWC/ATW/MANUAL/PUSHLOCK RED GAIN 0~255 BLUE GAIN 0~256 C~256 M MODE NORMAN COOL/WARM EXIT JUMP SAVE& EXIT/EXIT	D&N MODE AUTO/JODOR/B&W NIGHT C. 0-100 NIGHT A. 0-100 SAVE & EXIT/EXIT	MIRROR MIRROR OFF SHARPNESS 0-30 GAMMA MANUAL 10.45 10.60 11.0 SIGNIAL 10.45 10.60 11.0 SAVEA EXIT JUMP SAVEA EXIT JEXIT
MOTION	PRIVACY	SET-UP	EXIT
AREA SET AREA1-4-2-0FF / ON SENSITIV. 1-30 SHOW INDI. OFF JUDIN/TRACE EFF JUDIN/TRACE EXIT JUMP SAVE & EXIT / EXIT	MASK 1 OFF (ON ASK) OFF (ON ON ASK) OFF (ON ON ON ASK) OFF (ON ON O	TITLE EDIT OFF / ON	SAVE & EXIT EXIT





EXPOSURE



LENS

Manual mode supports the fixed board lens or the manual iris

lens.

DC DC mode supports the auto-iris varifocal lens.

NOTE: Both MANUAL and DC mode have FOCUS TARGET. You can adjust the focus by finding the highest number on the FOCUS TARGET. See page 16 for focus information.



ELC Levels and DC Levels are adjustable. The higher the number, the brighter the image.

E. Shutter sets the shutter speed levels from 1/60 to 1/100000.

*For LENS-MANUAL Mode, the default E.SHUTTER is AUTO.

*For LENS-DC Mode, the default E.SHUTTER is 1/60. Select DC-AUTO for outdoor use. Select 1/100FLC to run camera in flickerless mode.

Note: The STARLIGHT option cannot be controlled if the E.SHUTTER setting is above 1/60.





EXPOSURE

BACKLIGHT

OFF

BLC BACK LIGHT COMPENSATION

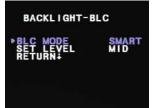
MANUAL User can manually adjust the BLC level in five areas of the scene (TOP, BOTTOM, CENTER, LEFT, RIGHT).

Increase the BLC levels to make the image brighter.

SMART This is recommended. Camera will automatically detect and adjust the BLC zone. BLC levels to choose

from include: LOWEST, LOW, MID, HIGH.







HME HIGHLIGHT MASKING EXPOSURE

HME masks highlights to allow objects to appear clearly on the screen. If ON is selected, HME levels are adjustable. The lower the number, the darker the masking areas.

WDR (TRUE) WIDE DYNAMIC RANGE

True WDR in this camera is not supported by a double scan CCD. However, this special DSP can automatically perform two scans depending on the lighting.





EXPOSURE

AGC (AUTO GAIN CONTROL)

OFF / LOW / MID / HIGH / HIGHEST

AGC enhances the picture brightness in low light conditions. A higher level AGC setting makes the images brighter; however, it could increase the amount of noise

STARLIGHT

OFF / x2 ~ x1024

Starlight mode automatically activates slow shutter function when the image is too dark. x4 is the default. We do not recommend you to increase the setting, for it causes the image to lag.

Note: Starlight menu cannot be controlled if the E.SHUTTER setting is above 1/60

3D DNR (DIGITAL NOISE REDUCTION)

OFF / LOW / MID / HIGH / SMART

3D-DNR reduces the noise on the screen in low light conditions and allows for clearer images, even at night. The SMART option will adjust the camera to prevent lagging when there is motion.

EXIT JUMP

SAVE & EXIT

Save the current settings and exit the OSD menu. Exit the OSD menu without saving the changes.





WB MODE

AWC Auto White Balance Control mode compensates for color

temperature changes between 2000K and 18000K.

ATW Auto Tracking White Balance Control mode compensates for color

temperature changes between 2500K and 9500K.

MANUAL Users can control the white balance manually by changing RED

GAIN and BLUE GAIN (see below).

PUSHLOCK Pushlock is to fix the white balance based on the current lighting.

RED GAIN

 $0 \sim 255$ Adjusts the amount of red in the image.

BLUE GAIN

 $0 \sim 255$ Adjust the amount of blue in the image.

COLOR MODE

NORMAL Color is similar to actual color.

COOL Color has more blue.

WARM Color has more red

EXIT JUMP

SAVE & EXIT Save the current settings and exit the OSD menu. EXIT Exit the OSD menu without saving the changes.





DAY & NIGHT





D&N MODE

AUTO

Camera switches between day and night automatically depending on light level. Camera will stay in color mode when there is enough light. Camera will switch to B&W at night or other low light environments.

If AUTO is selected, please define the following settings:

*BURST: If ON is selected, the camera provides a color burst signal

in night mode. If OFF, no color burst signal is provided.

*COLOR->B&W: Adjusts the light level at which the camera switches from day (color) to night (B&W) mode. The higher the number, the lower the light level.

*B&W->COLOR: Adjusts the light level at which the camera switches from night (B&W) to day (color) mode. This number should be lower than the value of COLOR->B&W above

*SMART IR: ON/OFF. If using IR LEDs, ON is recommended.

*READ TIME: Time interval delay before switching from day mode to night mode. It is adjustable from 3 seconds to 12 seconds.

*EX_IR INT.: AUTO/EXT. If using IR LEDs built into the camera, select AUTO. If using external IR LEDs separately, select EXT.

COLOR

B&W Camera always stays in night/B&W mode.

Camera always stays in day/color mode.

NIGHT C.

0 ~ 100 Color will be reduced in low light conditions.

(This level cannot be adjusted when 3D-DNR is ON.)

NIGHT A.

0 ~ 100 Edge sharpness will be reduced in low light conditions.

(This level cannot be adjusted when 3D-DNR is ON.)

EXIT JUMP

 $\ensuremath{\mathsf{SAVE}}\xspace \& \ensuremath{\mathsf{EXIT}}\xspace \xspace \x$

EXIT Exit the OSD menu without saving the changes.



FUNCTION



MIRROR

OFF

MIRROR Flips the image horizontally.

SHARPNESS

0 ~ 30

Sets the image sharpness. The higher the number, the sharper the image.

GAMMA

0.45 / 0.60 / Select the desired gamma level. 0.45 is default setting.

SLC (SIDE LIGHT COMPENSATION)

OFF / ON Increase the brightness on sides of the image.

NIGHT-UP

OFF / ON

Adjusts sensitivity in low light conditions by set-up level. If ON is selected, the set-up level becomes higher, and the images become brighter.

EXIT JUMP

 $\ensuremath{\mathsf{SAVE}}\xspace \& \ensuremath{\mathsf{EXIT}}\xspace \xspace \x$

EXIT Exit the OSD menu without saving the changes.





MOTION







The camera can detect the movement and display an alarm on the screen when movement is detected

AREA SET

AREA 1~4 OFF / ON

If ON, motion areas can be selected and moved accordingly. Select Areas 1-4 and adjust using controls for TOP, BOTTOM, LEFT. or RIGHT.

SENSITIV.

Sensitivity level of the motion detection is adjustable. Motion 1~30 Detection will be more sensitive at a higher number.

SHOW INDI.

TRACE

OFF/ICON Set the Show Indicator to OFF, ICON, or TRACE, If ICON is selected, a a bell will appear in the upper right hand corner when motion is detected. If TRACE is selected, the area where motion was detected will be highlighted.

EXTER OUT (ALARM SIGNAL, EXTERNAL OUTPUT)

If ON is selected, you can set how long the alarm is displayed on OFF / ON the screen when motion is detected (0 \sim 15 seconds).

EXIT JUMP

SAVE & EXIT Save the current settings and exit the OSD menu. Exit the OSD menu without saving the changes. FXIT



PRIVACY



You can hide some parts of the screen for privacy masking. A total of 8 different privacy masking zones are available.

MASK 1 ~ MASK 8

OFF / ON Select ON or OFF for each mask (MASK 1 through 8).



If ON is selected you can set the area to be masked and the shape and color of the mask.

*START POINT: Select the START POINT to adjust the size of the privacy zone.

L TOP (Left Top)

R TOP (Right Top)

L BOT (Left Bottom)

R_BOT (Right Bottom)

*MODIFY: After selecting the START POINT, you can modify the size of the privacy zone by moving the joystick left or right.

*POSITION: You can move the privacy zone by moving the joystick left or right. *COLOR SET: Privacy zones can be set with eight different colors - GRAY,

BLACK, WHITE, RED, GREEN, BLUE, MAGENTA, and CYAN.







TITLE

OFF / ON

If ON is selected, you can display the camera title on the screen.

*CLR: Clear the title.

*POS: Position the title on the screen.



DPC-AUTO

DPC (DEAD PIXEL CANCELLATION)

OFF

DPC automatically removes defective pixels in real time.

If AUTO is selected, you can define the following settings: *WHITE THR: Cancels the white defective pixels.

*BLACK THR: Cancels the black defective pixels.

*DPC LEVEL: Adjusts the sensitivity level of the dead pixel

cancellation.

NOTE: Adjust the WHITE THR/BLACK THR and DPC LEVEL at the same time.





MONITOR

MODE 1 MODE 1 is the default. If the displayed image is not good enough, try MODE 2.

MODE 2

LANGUAGE

The camera supports the following languages: ENGLISH, CANTONESE, MANDARIN, JAPANESE, DEUTSCH, FRENCH, ITALIAN, RUSSIAN, SPANISH, AND DUTCH.

OSD COLOR

The following colors are available for the OSD menu: BLUE, GREEN, CYAN, RED, MAGENTA, YELLOW, PURPLE, and GRAY



COMMUNICATION

OFF

ON

If ON is selected, you can define the following:

*PROTOCOL: PELCO-D only.

*CAMERA ID: Provide an ID number for the camera (0~255).

*BAUDRATE: 9600bps is the default. There are four options: 2400bps, 4800bps, 9600bps, and 19200bps.

FACTORY SET

If selected, the camera reverts back to factory default settings.

NOTE: FACTORY SET does not affect the LENS, DAY & NIGHT, CAMERA ID, and DPC SETTINGS.

EXIT JUMP

 $\mbox{SAVE}\ \&\ \mbox{EXIT}\ \mbox{Save the current settings and exit the OSD menu.}$

EXIT Exit the OSD menu without saving the changes.





EXIT

SAVE & EXIT Save the current settings and exit the OSD menu. Exit the OSD menu without saving the changes. EXIT



TROUBLESHOOTING

Before sending your camera for repair, check the following or contact our technical specialist.

FOR NO VIDEO

Check the coaxial cable and make sure it is connected securely.

Check the lens' iris adjustment at the camera's OSD menu.

Check the power supply and make sure the camera has the proper voltage and current.

FOR OUT-OF-FOCUS VIDEO

Check the clear dome cover and the lens for dirt or fingerprints. Use a soft cloth and gently clean. Check the lens' manual focal and zoom adjustment. The use of a field test monitor is recommended.

WARRANTY INFORMATION*

Digital Watchdog (referred to as "the Warrantor") warrants the Digital Watchdog Camera against defects in materials or workmanship as follows:

LABOR: For the initial five (5) years and one (1) year on IR LED from the original purchase date, if the camera is determined to be defective, the Warrantor will repair or replace the unit with a new or refurbished product at its option at no charge.

PARTS: In addition, the Warrantor will supply replacement parts for the initial five (5) years and one (1) year on IR LED.

To obtain warranty or out of warranty service, please contact a Technical Support Representative at **1-866-446-3595** Monday through Friday from 8:30AM to 8:00PM Eastern Standard Time.

A purchase receipt or other proof of the original purchase date is required before warranty service is rendered. This warranty only covers failures due to defects in materials and workmanship which arise during normal use. This warranty does not cover damage which occurs in shipment or failures which are caused by products not supplied by the Warrantor or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lightning damage, rental use of the product or service by anyone other than an authorized repair facility or damage that is attributable to acts of God.



LIMITS AND EXCLUSIONS*

There are no express warranties except as listed. The warrantor will not be liable for incidental or consequential damages (including damage to recording media without limitation) resulting from the use of these products or arising out of any breach of the warranty. All express and implied warranties, including the warranties of merchantability and fitness for particular purpose, are limited to the applicable warranty period set forth above.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitatons on how long an implied warranty lasts, so the exclusions or limitations listed above may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state-to-state.

If the problem is not handled to your satisfaction, then write to the following address:

Digital Watchdog, Inc. ATTN: RMA Department 5436 W. Crenshaw Street Tampa, FL 33634

Service calls which do not involve defective materials or workmanship as determined by the Warrantor, in its sole discretion, are not covered. Costs of such service calls are the responsibility of the purchaser.



SPECIFICATIONS*

DWC-D4367WD & DWC-D4367WTIR				
1/3" Sony Super HAD CCD II				
811 (H) x 508 (V), 411K Pixels				
768 (H) x 494 (V)				
15.734KHz (H), 59.95Hz (V)				
Internal or Line Lock				
620 TV Lines [B&W], 600 TV Lines [Color]				
F1.2 (30IRE): 0.14 Lux [Color]				
F1.2 (30IRE): 0.03 Lux [B&W], 0.0 Lux [B&W] for IR Model				
50dB (AGC off)				
CVBS: 1.0Vp-p / 75 Ω				
3.3-12mm				
DC Auto Iris				
0 ~ 30				
USER / 0.45 / 0.60 / 1.00				
OFF / LOW / MIDDLE / HIGH / SMART				

OPERATIONAL				
Backlight Compensation	OFF / BLC / HME / WDR			
Star-Light	OFF / AUTO (X2-X1024)			
Privacy Zones	OFF / ON (8 Programmable Zones)			
Language	ENGLISH / MANDARIN / CANTONESE / JAPANESE / GERMAN			
	FRENCH / ITALIAN / RUSSIAN / SPANISH / DUTCH			
ENVIRONMENTAL				
Operating Temperature	-10°C ~ 55°C (-14°F ~ 131°F)			
Operating Humidity	Less than 90% (Non-Condensing)			
Storage Temperature	-20°C ~ 70°C (-4°F ~ 158°F)			
ELECTRICAL				
Power Requirement	Dual (12VDC & 24VAC)			
Power Consumption	12VDC: 2.1W, 175mA / LED ON 4.5W, 375mA			
	24VAC: 2.2W, 91.7mA / LED ON 4.6W, 191.7mA			
MECHANICAL				
Housing Material	Plastic			
Dome Cover Material	Polycarbonate			
Dimensions	Ø108 X 96.8 mm (Ø4.25 X 3.8 in)			
Weight	0.507 lbs, 0.529 lbs [IR Model]			

^{*}Specification is subject to change without prior notice.



MEMO*		



5436 W Crenshaw St. Tampa, FL 33634 Tel: 866-446-3595 / 813-888-9555

Fax: 813-888-9262 www.Digital-Watchdog.com technicalsupport@dwcc.tv Technical Support Hours: Monday-Friday

8:30am to 8:00pm EST