

Vandal Dome Camera

DWC-V6563D DWC-V6563DIR





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 a 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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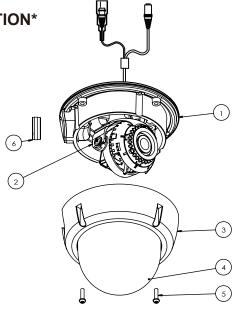
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FEATURES*

- 960H CCD Image Sensor (960 Horizontal Pixels)
- 720 TV Lines [B/W], 700 TV Lines [Color]
- 2.8~12mm Varifocal Auto Iris Lens
- 100ft Range IR with Intelligent Camera Sync, Smart IR
- Electronic Day & Night
- 3D DNR (3D Digital Noise Reduction)
- Star-Light (Super Low Light Technology)
- HME (Highlight Masking Exposure)
- SLC (Side Light Compensation)
- Programmable Privacy Zones (8) & Motion Detection
- AGC / BLC / AWB
- Easy Icon Driven OSD Menu with Built-in Joystick
- IP66 Certified (Weatherproof)
- Auto Sensing 24VAC/12VDC with Line Lock
- Secondary Video-BNC Output

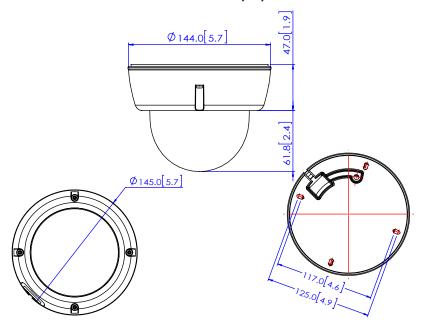


PARTS & DESCRIPTION*



- Bottom Case
- 2 Camera Gimbal
- 3 Upper Case
- 4 Dome Cover
- 5 Cover Screws (x4)
- 6 Side Port for Cabling

DIMENSIONS IN MILLIMETERS (IN)*

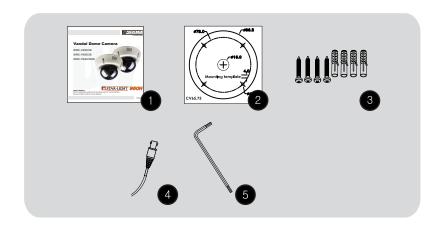




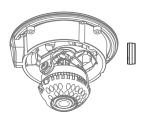
INSIDE THE BOX*

Included with Camera:

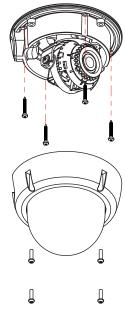
- 1 User Manual
- 2 Mounting Template
- 3 4 Machine Screws and 4 Dry Wall Anchors
- 4 Secondary Video-BNC Cable
- 6 L-Key



SURFACE MOUNT INSTALLATION INSTRUCTIONS*



- Use the camera or mounting template to mark and drill the necessary holes in the wall or ceiling.
- 2. Pull wires through and make connections.
- 3. Using the four (4) included screws, mount and secure the camera to the wall or ceiling.
- 4. Adjust the camera's Pan and Tilt and Lens. See pages 15-16 for more information.
- 5. Use the joystick to adjust the OSD menu. See pages 17-28 for more information.
- Attach the camera housing to the camera base using the assembly screws.





JUNCTION BOX INSTALLATION INSTRUCTIONS*



Check to see all parts are in the box.



Use the dry wall anchors and machine screws to mount the junction box and rubber gasket to the wall.



Insert wires through the wall and make the appropriate connections.



Attach the camera to the junction box using the machine screws.



5 Attach the camera housing to the junction box using the assembly screws.

WALL MOUNT INSTALLATION INSTRUCTIONS*



• Check to see all parts are in the box.



Use the mounting template to make pilot holes. Use the dry wall anchors and machine screws to attach the assembly to the wall.



Insert the wires from the camera through the wall mount housing.



Attach the camera housing to the fixture.



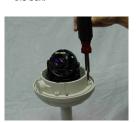
3 Attach the camera to the wall mount housing.



PENDANT MOUNT INSTALLATION INSTRUCTIONS*



Check to see all parts are in the box.



Attach the camera to the pendant mount using the machine screws.



Attach the top shield to the pendant mount.



5 Attach the camera housing to the fixture.



Slide the wires from the camera through the pendant mount.



Use the mounting template to make pilot holes. Mount the camera assembly to the ceiling using wall mount anchors and machine screws.

CORNER MOUNT INSTALLATION INSTRUCTIONS*



• Check to see all parts are in the box.



Attach the two compression fittings to the corner bracket.



Attach the wall mount to the corner bracket with the 4 machine screws.

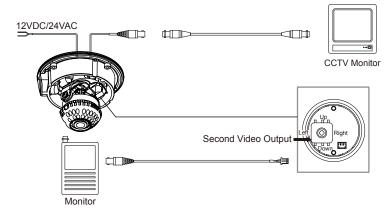


Attach the assembly to a wall corner with dry wall anchors and machine screws.



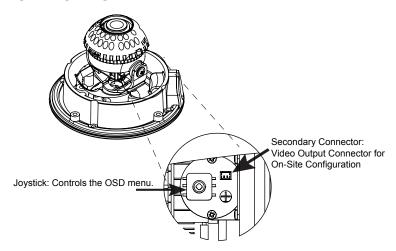
CONNECTING TO MONITORS*

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



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

CONTROL BOARD*

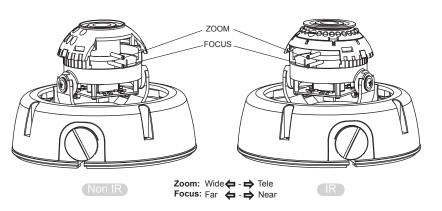


- Remove the camera's cover dome to access the OSD joystick controller.
- 2 Use the Joystick to control the camera's OSD options.



ADJUSTING THE CAMERA LENS*

Follow the instructions provided below to make any lens adjustments.



- To adjust the field of view, use the L-Key to turn the zoom screw (located on the bottom of the camera) counter-clockwise to zoom in, or clockwise to zoom out.
- ② Adjust the focus the same way as descriped above AFTER the desired zoom position is established.

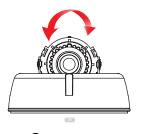
ADJUSTING THE CAMERA GIMBAL*





2 Panning 360°



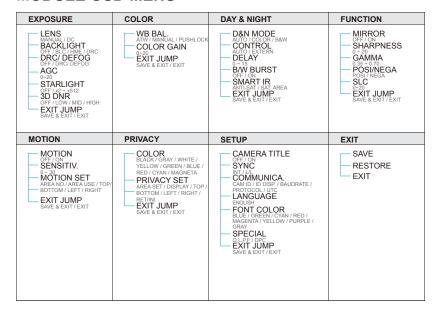


3 Tilting 70° IR LED

3 Tilting 90°



MODULE OSD MENU*





EXPOSURE



AUTO Lens Submenu



DC Lens Submenu



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 SET. You can adjust the focus by finding the highest number on the FOCUS SET. See page 15 for focus information.

Brightness: Adjust the camera's brighness from 0~20. The higher the number, the brighter the image will appear.

Shutter: Sets the shutter speed levels from 1/60 to 1/120000.

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

*For LENS-DC Mode, the default SHUTTER is 1/60. Select DC-AUTO for outdoor use

FLC: Enable or disable to adjust the camera's view and prevent the image from flickering.

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





EXPOSURE

BACKLIGHT

OFF

BLC BACK LIGHT COMPENSATION

If BLC is selected, adjust the following options in the submenu:

- LEVEL: Set the BLC level from the available options: LOW/ MIDDLE/ HIGH)
- DISPLAY: Selet to show or hide the BLC mask.
- POSITION: Set the BLC masks' size and position.

TOP: Set level from 0~54. The higher the number, the higher the top border of the BLC mask will be in the camera's view.

BOTTOM: Set level from 1~55. The higher the number, the lower the bottom border of the BLC mask will be in the camera's view. LEFT: Set level from 0~217. The lower the number, the closer the

BLC mask will be to the camera's left border.

RIGHT:Set level from 1~218. The lower the number, the closer the BLC mask will be to the camera's right border.

 RET/ INI.: Select whether to return to the main menu, or reset the BLC settings to factory default.

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 setting, the darker the masking areas. Select from: LOW / MIDDLE / HIGH.









EXPOSURE

DRC DYNAMIC RANGE COMPRESSOR

DRC enables dark spots in images to become more visible without overexposing the bright spots to create one perfect image.

- DEFOG: AUTO / Manual: If AUTO is selected, the WDR and DRC levels will be set automatically based on the environment. If MANUAL is selected, set the WDR and DRC level from LOW / MIDDLE / HIGH.
- MODE: * ONLY DAY: DRC and WDR will work in day time.
 - * ALL DAY: DRC and WDR will work in day and night time.

AGC AUTO GAIN CONTROL

1~20

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 ~ x512

Automatically activates slow shutter function when the image is too dark. High values are not recommended as they may causes the image to lag. Starlight menu cannot be controlled if the SHUTTER setting is above 1/60.

3D DNR

OFF/ LOW/ MID/ HIGH

3D DIGITAL NOISE REDUCTION- 3D-DNR reduces the noise on the screen in low light conditions and allows for clearer images, even at night.





COLOR

WB MODE

ATW Auto Tracking White Balance Control mode compensates for color temperature changes

between 2500K and 9500K.

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

MANUAL Users can control the white balance manually by changing RED GAIN and BLUE

GAIN (see below).







RED GAIN

 $0 \sim 40$ Adjusts the amount of red in the image.

BLUE GAIN

0 ~ 40 Adjust the amount of blue in the image.

COLOR GAIN

Set the color gain from 0~20.





DAY & NIGHT

D&N MODE

AUTO / In AUTO mode, the camera switches between day and night automatically depending COLOR / on light level. If COLOR is selected, the camera always stays in day/color mode.

B&W If B&W is selected, camera always stays in night/B&W mode. If AUTO is selected,

► EXT SIGNAL

NIGHT SZW

D→N:HIGH N→D:LOW

EXT:LOW

ENTER - RETURN

please define the following settings:

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

Adjust the following submenu options:

* FXT SIGNAL: Select from CDS or LOW/HIGH

If CDS is selected: Day & Night will work by CDS signal level. If LOW/ HIGH is set for EXT SIGNAL: Day & Night will work by CDS's Low/High signal.

- CDS D>N : Set D>N level from 0 ~ 40. Adjusts the light level at which the camera switches from day to night. Higher values, the lower the light level.

- CDS N>D: Set N>D level from 0 ~ 20. Adjusts the light level at which the camera switches from night to day. This should be lower than the value of D>N above.
- NIGHT S/W: Decide the Low/High signal of CDS.

*EXT LED: If you want to turn off the external LED, you can change the value from AUTO to OFF.

DELAY

0 ~ 15 Sec. Time interval delay before switching from day mode to night mode.

B/W BURST

OFF / ON If ON is selected, the camera provides a color burst signal in night mode.

SMART IR - ANTI-SAT: Select level value from 1 ~ 20

- SAT_AREA : Set SMART IR area from 0 ~ 20





FUNCTION

MIRROR

OFF

MIRROR V-Flip- turns the camera upside down. Rotate- reflects the camera horizontally.









MILLOL OF

Rotate ON

V-Flip ON

SHARPNESS

 $0 \sim 30$ Sets the image sharpness. The higher the number, the sharper the image.

GAMMA

0.35 ~ 0.7 Select the desired gamma level. 0.45 is default setting.

POSI / NEGATIVE

OFF / ON If NEGATIVE is enabled, the camera's image will appear in negative colors.

SLC (SIDE LIGHT COMPENSATION)

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





MOTION

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

MOTION

OFF / ON Select to enable or disable the camera's motion detection. If ON is selected:

SENSITIV.

0~30 Sensitivity level of the motion detection is adjustable. Motion Detection will be more sensitive at a higher number.





MOTION SET

- Area Number: The camera supports up to 4 different motion detection masks. Select which ones to display.
- Area Use: Select which one of the motion areas to enable.
- TOP: Set level from 0~54. The higher the number, the higher the top border of the mask will be in the camera's view.
- BOTTOM: Set level from 1~55. The higher the number, the lower the bottom border of the mask will be in the camera's view
- LEFT: Set level from 0~217. The lower the number, the closer the mask will be to the camera's left border.
- RIGHT:Set level from 1~218. The lower the number, the closer the mask will be to the camera's right border.
- RET/ INI .: Select whether to return to the main menu, or reset the motion settings to factory default.







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

MASK COLOR

Privacy zones can be set with eight different colors-GRAY, BLACK, WHITE, RED, GREEN, BLUE, MAGENTA, and CYAN.

PRIVACY SET

- Area Number: The camera supports up to 8 different privacy masks.
 select 1~8 which masks to display.
- Area Use: Select which one of the motion areas to enable.
- TOP: Set level from 0~61. The higher the number, the higher the top border of the mask will be in the camera's view.
- BOTTOM: Set level from 1~62. The higher the number, the lower the bottom border of the mask will be in the camera's view.
- LEFT: Set level from 0~238. The lower the number, the closer the mask will be to the camera's left border.
- RIGHT:Set level from 1~239. The lower the number, the closer the mask will be to the camera's right border.
- RET/ INI.: Select whether to return to the main menu, or reset the motion settings to factory default.





SETUP

TITLE

OFF / ON

If ON is selected, you can display the camera title on the screen. If enabled, manually enter the camera's display name using the joystick controller.





INTERNAL SYNC.

INT/ Select whether the camera syncronizes internally or using Line Lock.

L/L If Line Lock is selected, set the phase level from 0~359.

COMMUNICATION

The Communications settings allow you to setup the camera's ID, Baudrate, Protocol, and UTC.

- CAM ID: Provide an ID number for the camera ($0 \sim 255$).
- ID DISP.: Decide to show the ID on screen or not. Select ON & OFF.
- BAUDRATE: 9600bps is default. Select the baudrate from the following options: 2400/4800/9600/57600 and 19200bps.
- PROTOCOL: Set as PELCO-D or PELCO-P
- UTC: Automatically set UTC as 15 or 32 BIT







SETUP

FONT COLOR

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

LANGUAGE

The camera supports the following languages: ENGLISH.

SPECIAL

OLPF: Select the filter that you use from BLUE/RED and PASS, then reboot the camera to use.

DPC: Set as START and compensate the white dot by changing the THRESHOLD value.







EXIT

EXIT

SAVE Exit the OSD menu after saving the recent changes. RESTORE Exit the OSD menu without saving recent changes.

INITIAL Exit the OSD menu after resetting the camera to factory default.









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 & 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*

VIDEO	
Image Sensor	960H CCD
Total Pixels	960 (H) x 478 (V)
Scanning System	2:1 Interlace
Frequency	15.734KHz (H), 59.95Hz (V)
Synchronization	Internal or Line Lock
Horizontal Resolution	720 TV Lines [B/W], 700 TV Lines [Color]
Minimum Illumination	F1.2 (30IRE): 0.14 Lux [Color]
	F1.2 (30IRE): 0.03 Lux [B/W]
	0.0 Lux (DWC-V6563DIR)
S/N Ratio	52dB (AGC off)
Video Output	CVBS: 1.0Vp-p / 75 Ω
LENS	
Focal Length	2.8~12 mm
Lens Type	Varifocal Auto Iris Lens
IR Distance	100ft Range IR (DWC-V6563DIR)
OPERATIONAL*	
Shutter Speed	1/60s~1/120000s
Backlight	OFF / ON
Star-Light	X2 ~ X512
3D-DNR	OFF / Low / Middle / High



PERATIONAL*			
White Balance	ATW/ PUSH/ MANUAL		
Day and Night	Auto / Day / Night		
Mirror	OFF / V. Flip / Rotate		
Auto Gain Control	1 ~ 20		
Gamma	0.35 ~ 0.7		
Motion Detection	4 Motion Regions		
Privacy Zones	8 Programmable Privacy Masks		
Dynamic Range Compressor	OFF / Low / Middle / High		
Sharpness	0 ~ 20		
Highlight Masking Exposure	OFF / Low / Middle / High		
DPC (Dead Pixel Cancellation)	OFF / ON		
ENVIRONMENTAL			
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)		
Operating Humidity	Less than 90% (Non-Condensing)		
IP Rating	IP66 (Protects against dust and high pressure water.)		
ELECTRICAL			
Power Requirement	DC12V (V6553D) Dual Voltage		
Power Consumption	DC12V: 1.8W, 150mA, LED On: 4.3W, 358mA		
	AC24V: 1.8W, 75mA, LED On: 4.3W, 180mA		
MECHANICAL			
Housing Material	Aluminum		
Dimensions	145 x 108.8 mm (5.7 X 4.28 in)		
Weight	1.65 lbs		
	40 20 11 11 11 11 11		

*Specification is subject to change without prior notice.





MEMO*		
MEMO		



Everything's Digital

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