

# High Resolution Vandal-Proof Dome Camera

**DWC-V1362DIR**



## **ABOUT MANUAL**

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

## PRECAUTIONS

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- Do not open or modify.
- Do not open the case except during maintenance 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

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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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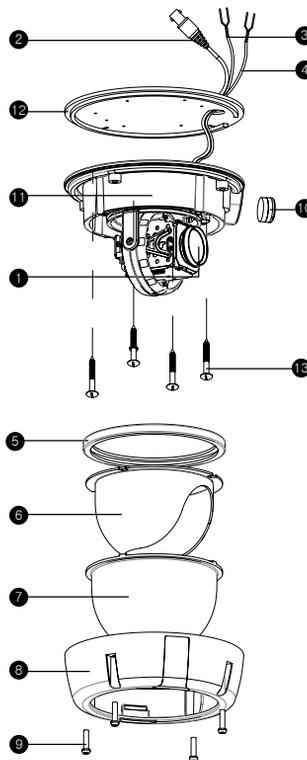
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## **FEATURES\***

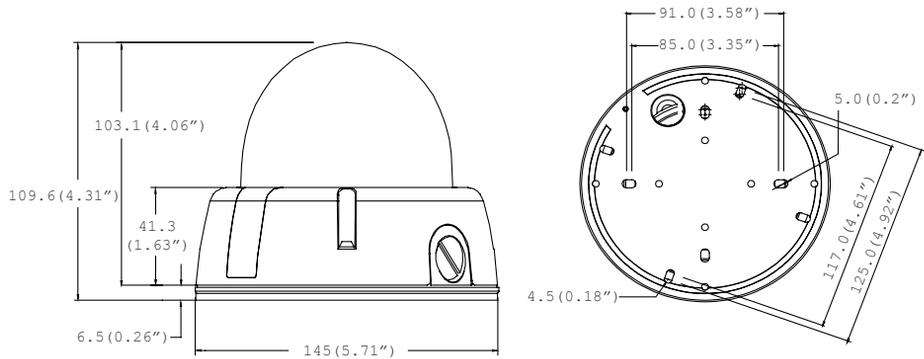
- 1/3" CCD
- 570 TV Lines [B&W], 540 TV Lines [Color]
- 3.3~12mm Varifocal Auto Iris Lens
- 100ft Range IR with Intelligent Camera Sync
- Electronic Day and Night
- 3D-DNR (3D Digital Noise Reduction)
- D-WDR (Digital Wide Dynamic Range)
- HME (Highlight Masking Exposure)
- SLC (Side Light Compensation)
- Programmable Privacy Zones & Motion Detection
- AGC / BLC / AWB
- Easy Icon Driven OSD Menu with Built-in Joystick
- IP66 Certified (Weatherproof)
- Auto Sensing 12VDC/24VAC with Line Lock
- Secondary Video-BNC Output

## PART & DESCRIPTIONS\*

- ① Lens
- ② Video Output Connector - BNC
- ③ Power Input Connector  
12VDC/ 24VAC Dual Voltage
- ④ RS485: BK(D+), WH(D-)
- ⑤ Rubber Band
- ⑥ Black Dome Insert
- ⑦ Bubble Dome
- ⑧ Upper Case
- ⑨ Assembly Screws  
T20 M4X16
- ⑩ NPT Plug
- ⑪ Bottom Case
- ⑫ Rubber Pad
- ⑬ Mounting Screws



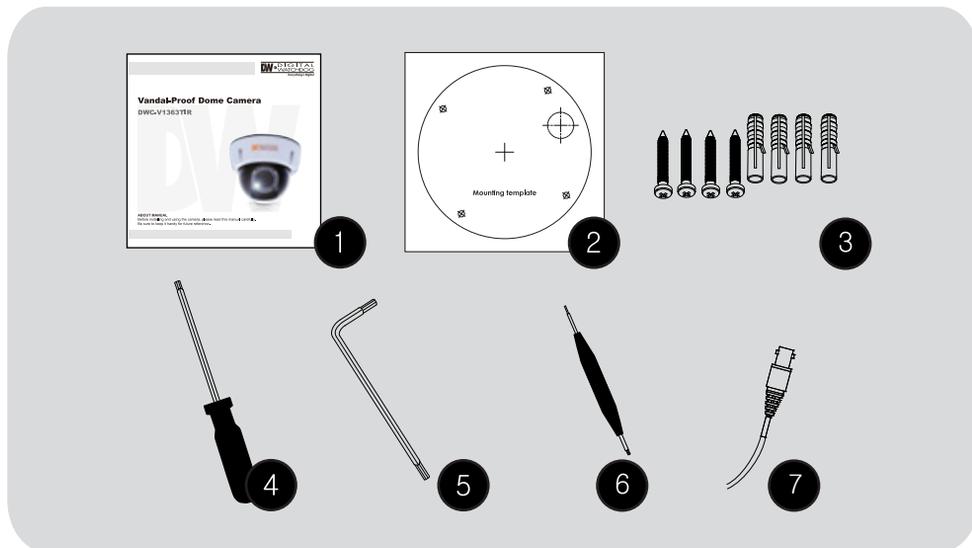
## DIMENSIONS IN MILLIMETERS (IN)\*



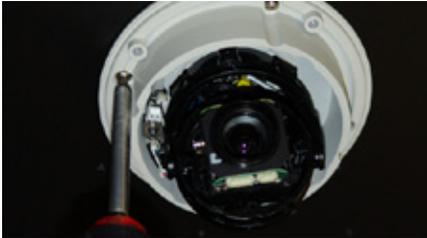
# INSIDE THE BOX\*

## Included with V1 Vandal Dome Camera

- ① User Manual
- ② Mounting Template
- ③ 4 Machine Screws and 4 Dry Wall Anchors
- ④ TORX-T20 Hex Key
- ⑤ Double-Sided TORX-T20 Hex Key
- ⑥ L-Key
- ⑦ Secondary Video-BNC Cable



## MOUNTING INSTALLATION INSTRUCTIONS\*



- ❶ Pull wires through and make connections. Refer to page 13. Use mounting template to mount camera with drywall mounts and machine screws.



- ❷ Adjust the camera (pan, tilt, zoom). See page 14 for details.

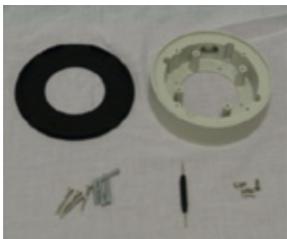


- ❸ Use the joystick to adjust the OSD menu. See pages 15-17 for details.



- ❹ Attach the camera housing to the junction box using the assembly screws.

## JUNCTION BOX INSTALLATION INSTRUCTIONS\*



- 1 Check to see all parts are in the box.



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



- 3 Insert wires through the wall and make the appropriate connections.



- 4 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\*



- 1 Check to see all parts are in the box.



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



- 3 Attach the camera to the wall mount housing.



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



- 5 Attach the camera housing to the fixture.

## PENDANT MOUNT INSTALLATION INSTRUCTIONS\*



- 1 Check to see all parts are in the box.



- 2 Attach the top shield to the pendant mount.



- 3 Slide the wires from the camera through the pendant mount.



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

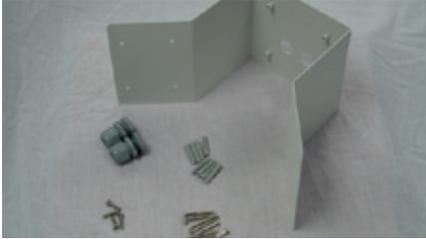


- 5 Attach the camera housing to the fixture.

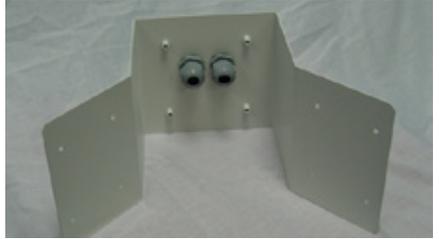


- 6 Use the mounting template to make pilot holes. Mount the camera assembly to the ceiling using wall mount anchors and machine screws.

## CORNER MOUNT INSTALLATION INSTRUCTIONS\*



- 1 Check to see all parts are in the box.



- 2 Attach the two compression fittings to the corner bracket.



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

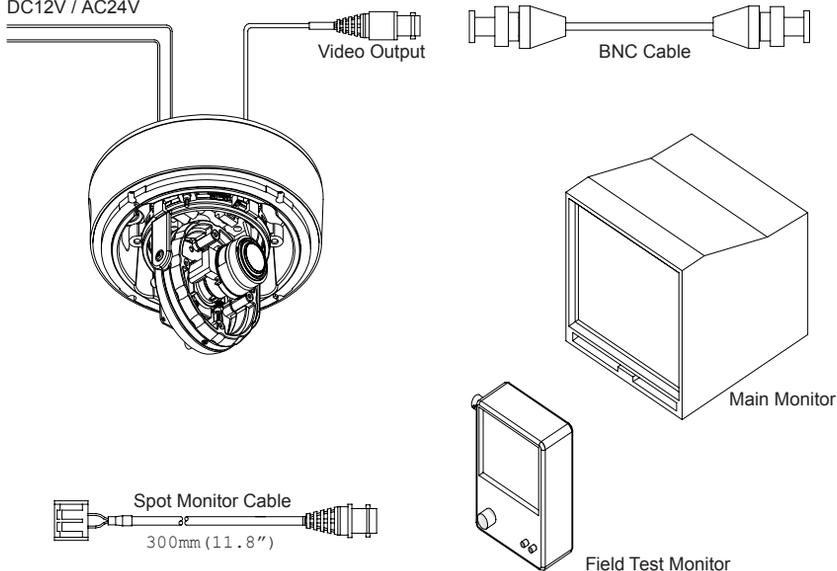


- 4 Attach the assembly to a wall corner with dry wall anchors and machine screws.

## CONNECTING TO MONITORS\*

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

DC12V / AC24V

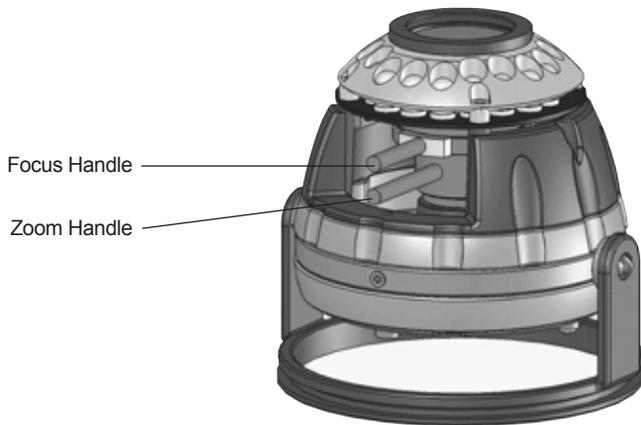


Power Connection: 12VDC & 24VDC Dual Voltage (Auto Polarity Detection and Protection)

All cameras are equipped with a second video output for on-site configuration.

## ADJUSTING THE CAMERA LENS\*

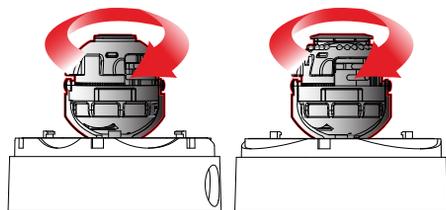
Follow the instructions below to make any lens adjustments.



- ① Loosen the zoom and focus handles by rotating them counter-clockwise.
- ② Adjust the field of view by moving the handle to the RIGHT (tele) to zoom in or to the LEFT (wide) to zoom out.
- ③ AFTER the desired zoom position is established, adjust the focus the same way as described above.
- ④ Once the desired adjustments have been made, please tighten the handles back by turning them clockwise.

## ADJUSTING 3-AXIS GIMBAL \*

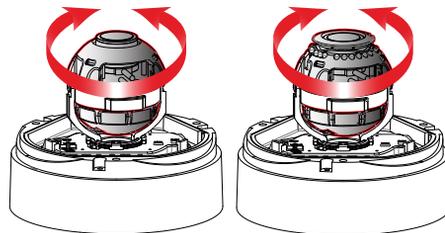
The Gimbal mechanism yields maximum rotation and placement as shown below.



NO IR

Rotation 360°

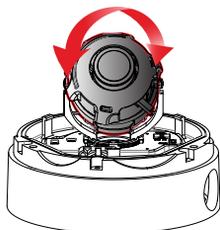
IR



NO IR

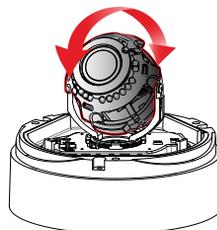
Panning 360°

IR



NO IR

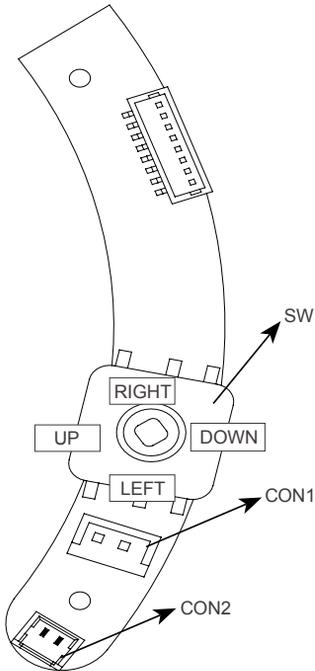
Tilting 90°



IR

Tilting 82°

## CAMERA CONTROL BOARD\*



SW: Functional Control of On Screen Display Menu

CON1: Second Video Output Connector

CON2: RS-485 Connector

CAUTION: Check for polarity when using a 12VDC Power Supply.

## **TROUBLESHOOTING**

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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\*

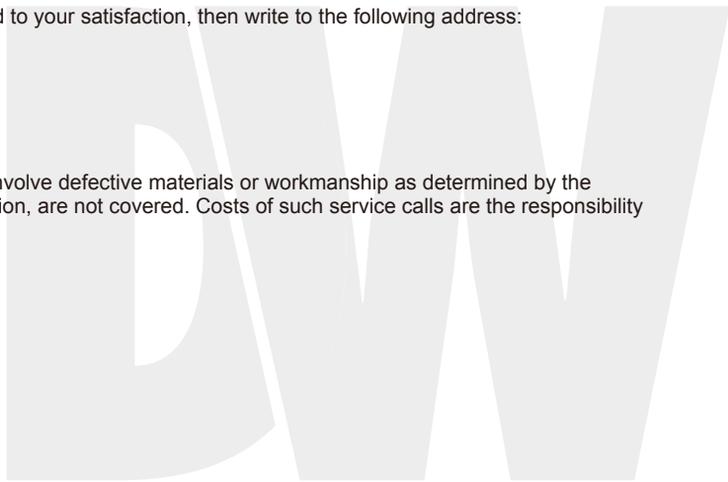
There are no express warranties except as listed. The warrantor will not be liable for incidental or consequential damages (including damage to recording media without limitation) resulting from the use of these products or arising out of any breach of the warranty. All express and implied warranties, 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 limitations 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-V1362DIR

#### VIDEO

Image Sensor	1/3" CCD
Total Pixels	811 (H) x 508 (V), 411K Pixels
Effective Pixels	768 (H) x 494 (V)
Frequency	15.734KHz (H), 59.95Hz (V)
Synchronization	Internal or Line Lock
Horizontal Resolution	570 TV Lines [B&W], 540 TV Lines [Color]
Minimum Illumination	F1.2 (30IRE): 0.14 Lux [Color] F1.2 (30IRE): 0.0 Lux [B&W]
S/N Ratio	50dB (AGC off)
Video Output	CVBS: 1.0Vp-p / 75 $\Omega$

#### LENS

Focal Length	3.3-12mm
Lens Type	DC Auto Iris
IR Distance	100ft Range IR

#### OPERATIONAL

Day & Night	Electronic
3D-DNR	OFF / LOW / MID / HIGH / SMART
Back Light Compensation	OFF / BLC / HME / D-WDR

## OPERATIONAL

White Balance	AWC / ATW / MANUAL / PUSHLOCK
Privacy Zones	OFF / ON (8 Programmable Zones)
Language	ENGLISH / GERMAN / JAPANESE / MANDARIN / CANTONESE RUSSIAN / FRENCH / SPANISH / ITALIAN / 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)
IP Rating	IP66 (Protects against dust and high pressure water.)

## ELECTRICAL

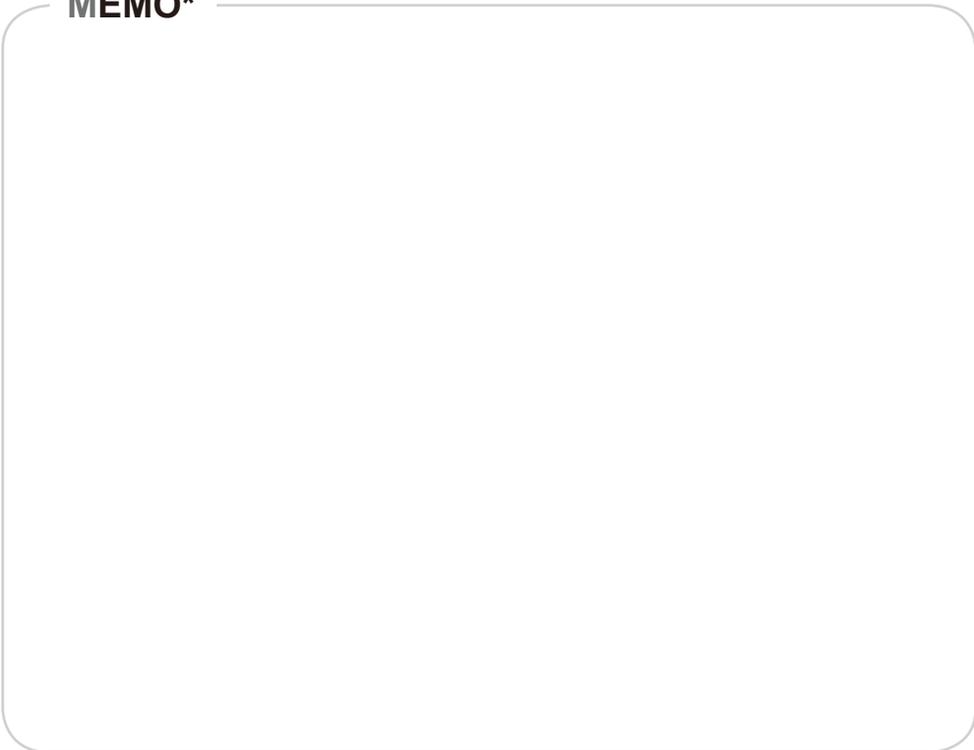
Power Requirement	Dual (12VDC & 24VAC)
Power Consumption	12VDC: 1.96W, 163mA / LED ON 4.6W, 383.3mA 24VAC: 2.2W, 91.7mA / LED ON 4.9W, 204mA

## MECHANICAL

Housing Material	Aluminum
Dome Cover Material	Polycarbonate
Dimensions	Ø145 X 109.6 mm (Ø5.7 X 4.3 in)
Weight	1.8 lbs

\*Specification is subject to change without prior notice.

**MEMO\***



**MEMO\***



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Technical Support Hours : Monday-Friday  
8:30am to 8:00pm EST