

Everything's Digital

DWC-B562DIR 960H Outdoor Bullet Camera

User Manual



ABOUT MANUAL

960H Value

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

11192012

PRECAUTIONS

- 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 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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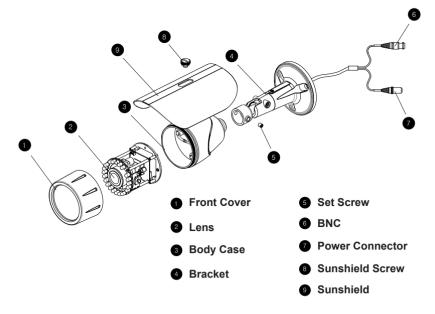
FEATURES*

DWC-B562DIR

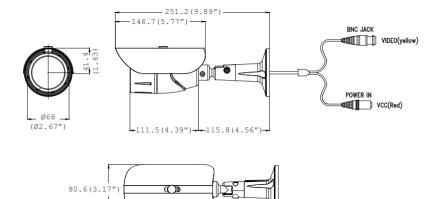
- 1/3" 960H High Resolution CCD
- 700 TV Lines
- 3.3~12mm Varifocal Auto Iris Lens
- 85ft Range IR with Intelligent Camera Sync, Smart IR
- Electronic Day and Night
- HME (Highlight Masking Exposure)
- AGC / Smart BLC / AWB
- Night-Up
- Mirror Image Control
- Programmable Privacy Zones (8) & Motion Detection
- Easy Icon Driven OSD Menu with Built-In Joystick
- Secondary Video-BNC Output
- IP66 Certified, No Fog or Condensation



PARTS & DESCRIPTIONS*



DIMENSIONS IN MILLIMETERS (INCHES)*



6

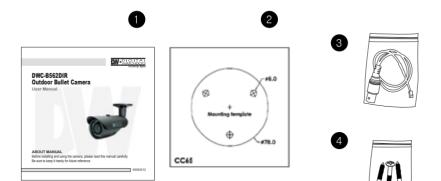


INSTALLATION*

Included with Value Line Bullet Camera

- 1. User Manual
- 2. Mounting Template

- 3. Second Video Jack
- 4. Mounting Screws (3)



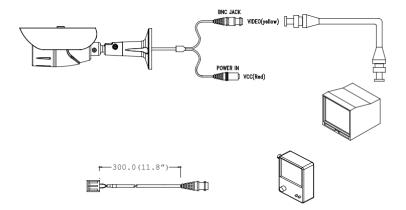
EASY INSTALLATION*

 Using the template, mark appropriate holes on the mounting surface. Secure the camera by drilling the three screws through the camera holes into the mounting surface. Adjust the camera's lens. See pages 10-12 for more information.

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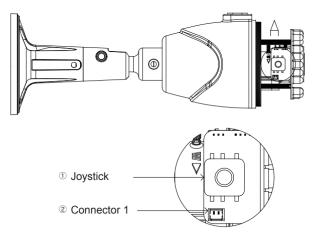
CONNECTING TO MONITORS*



CAUTION

- Check for polarity when using a DC 12V power supply.
- All cameras are equipped with a service monitor output on the camera module for easy on-site configuration.

OSD CONTROL BOARD**



NOTE: Turn the front cover counter-clockwise and remove to access the OSD Contol Board.

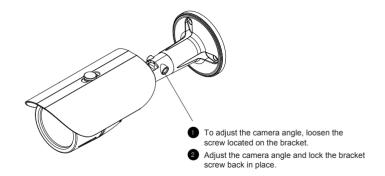
FUNCTIONS OF CONTROL BOARD

1 Joystick: Functional control of OSD (On Screen Display) Menu

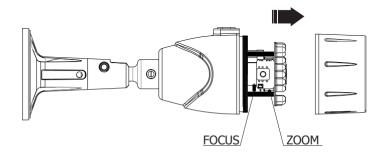
2 Connector 1: Second Video Output Connector



CAMERA SETTING ANGLE*



ADJUSTING THE LENS*



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



MODULE OSD MENU*

EXPOSURE	COLOR	DAY NIGHT
LENS MARUAL-DC OFF ICAU: HME / D-WDR OFF ICAU: MID / HIGH / HIGHEST OFF ICAU: MID / HIGH / HIGHEST OFF ICAU: MIDDLE / HIGH EXIT_JUMP SAVE & EXIT / EXIT	WB MODE AWC/ATW/MANUAL/PUSH RED GAIN BUSG BUSG GGNN 0-255 - COLOR MODE NORMAL/COOL/WARM EXIT JUMP SAVE&EXIT/EXIT	DAY & NIGHT AUTO/COLOR/BAW NIGHT C. BAW NIGHT A NO-TO EXIT JUMP SAVE & EXIT/EXIT
FUNCTION	MOTION	PRIVACY
MIRROR SHARPNESS 	AREASET MIXENTHOFF/ON SENSITIV. 1-30 SHOWINDI. OFF/ICONTRACE OFF/ONTRACE OFF/ONTRACE SATEROUT. OFF/ONTRACE	MASK1 OFF/ON MASK2 MASK3 OFF/ON MASK4 OFF/ON MASK6 OFF/ON MASK6 OFF/ON MASK6 MAS
SET-UP	EXIT	
TITLE TOP: ON DPC SET OF FANTO OFFANTO OFFANTO MONTOR OFFANTO MONTOR DOLLSH/REFE/SINAPSH/DOUTCH DOLLSH/REFE/SINAPSH/DOUTCH SOUCCOR DOLCOR DOLCOR DOLCOR DOLCOR DOLCOR OFFANT DOLCOR OFFANT OFFANTOR SAVE & EXT/LEXT	SAVE & EXIT	



EXPOSURE

EXPOSURE	
BACKLIGHT AGC 2D DNR EXIT JUMP4	MANUAL - OFF OFF LOW

I FNS

MANUAI MANUAL mode supports the fixed board lens or the manual iris lens

DC mode supports the auto-iris varifocal lens.

Note:

Both MANUAL and DC mode have EOCUS TARGET You can adjust the focus by finding the highest number on the FOCUS TARGET





ELC 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.

AUTO and DC-AUTO are the default shutter speeds for both indoor and outdoor use. Select 1/100ELC to run camera in flickerless mode



💮 EXPOSURE

BACKLIGHT

OFF

BLC BACKLIGHT COMPENSATION

Select MANUAL or SMART. SMART is recommended.



If MANUAL is selected, you can adjust the BLC levels in four areas of the scene (Top, Bottom, Left, Right). Increase the BLC levels where you want to make the image brighter.

If SMART is selected, the camera will automatically adjust the BLC zone. Choose from 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 level is adjustable. The lower the number, the darker the masking areas.

D-WDR DIGITAL WIDE DYNAMIC RANGE

D-WDR is one of the backlight compensation functions. You can adjust the D-WDR level from 0-20. The lower the number, the brighter the backlight.







AGC (Auto Gain Control)

OFF/ LOW / MID / HIGH / HIGHEST

AGC enhances picture brightness in low light conditions. A higher level AGC setting makes the image brighter; however, it could cause an increase in noise.

2D-DNR (Digital Noise Reduction)

OFF/ LOW / MIDDLE / HIGH

2D-DNR reduces the noise on the screen in low light conditions. It allows for clearer images even at night.

EXIT_JUMP

SAVE & EXIT EXIT



COLOR



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).
PUSH LOCK	Push Lock fixes the white balance based on current lighting.

RED GAIN

0~255

Adjusts the amount of red in the image.

BLUE GAIN

0~255

Adjusts the amount of blue in the image.

COLOR MODE

NORMAL COOL WARM Color is similar to actual color. Color has more blue. Color has more red.

EXIT_JUMP

SAVE & EXIT EXIT



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.
- COLOR Camera always stays in day/color mode.
- B&W Camera always stays in night mode.

If AUTO is selected, please define the following settings:

- BURST: ON/OFF. 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 \rightarrow 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 \rightarrow 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.

NIGHT C.

0~100

Color will be reduced in low light conditions. (This level cannot be adjusted when 2D-DNR is ON.)

NIGHT A.

0~100

Edge sharpness will be reduced in low light conditions. (This level cannot be adjusted when 2D-DNR is ON.)

EXIT_JUMP

SAVE & EXIT EXIT



FUNCTION

FUN	CTION 同世知		
MIRR	PNESS		
GAMM SLC NIGH	A T-UP	0.45 OFF	
EXIT	JUMPI		

MIRROR

OFF MIRROR

Flips the image horizontally.

SHARPNESS

0~30

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

GAMMA

Controls the output signal level. The higher the 0 45/ 0 6/ 1 0/ setting, the darker the dark colors will be. MANIJAI 0 45 is default

SLC (Side Light Compensation)

OFF/ ON

Increases 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

SAVE & EXIT FXIT





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

AREA SET

AREA 1 2 3 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

OFF/ ICON / TRACE

1~30

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

SHOW INDI. Set the Show Indicator to OFF. ICON. or TRACE. If ICON is selected, 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

OFF/ ON

ALARM SIGNAL EXTERNAL OUTPUT If ON is selected, you can set how long the alarm is displayed on the screen when motion is detected (0~15 seconds).

EXIT JUMP SAVE & EXIT

EXIT







PRIVA	S H H K		
MASK2 MASK3		000	
MASK4 MASK5 MASK6		000	FF FF FF
MASK7	UMPI	8	FF



Hide some parts of the screen by enabling the privacy masking zones. Atotal of 8 different privacy masking zones are available.

MASK 1~ MASK 8

OFF / ON Select ON or OFF for each mask

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, modify the size of the privacy zone by moving the joystick left or right.

POSITION:

Move the privacy zone by moving the joystick left or right.

COLOR SEI:

Privacy zones can be set with 8 different colors -GRAY, BLACK, WHITE, RED, GREEN, BLUE, MAGENTA, CYAN.





TITLE

OFF ON

If ON is selected, the camera title can be input into the system and will display on the screen.

*CLR: Clear the title.

*POS: Position the title on the screen.



DPC (Dead Pixel Cancellation)

OFF

AUTO Dead Pixel Cancellation automatically removes defective pixels in real time.



If AUTO is selected, you can define the following: *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.





MODE 1 / MODE 2

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

LANGUAGE

Total of 10 different languages are supported - ENGLISH, MANDARIN (CHINESE 1), CANTONESE (CHINESE 2), JAPANESE, DEUTSCH, FRENCH, ITALIAN, RUSSIAN, SPANISH, a nd DUTCH.

OSD COLOR

Total of 8 different OSD Menu Colors available - BLUE, GREEN, CYAN, RED, MAGENTA, YELLOW, PURPLE, GRAY.

COMMUNICATION

OFF / ON



If ON is selected, you can define the following:

*PROTOCOL: PELCO-D only. *CAMERA ID: Provide the ID no. on the camera (0~255). *BAUDRATE: 9600bps is the default. There are a total of 4 choices - 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 SAVE & EXIT EXIT



EXIT SAVE & EXIT EXIT



TROUBLESHOOTING

Before sending your camera for repair, check the following or contact one of our technical specialists.

No VIDEO

Check the coaxial cable and make sure it is connected securely. Check the lens' iris adjustment on the menu setup of the camera. Check the power supply and make sure the camera has the proper voltage and current.

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 focus and zoom adjustment. 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 two (2) 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 two (2) 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 above. The Warrantor will not be liable for incidental or consequential damages (including, without limitation, damage to recording media) 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 above exclusions or limitations 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 address listed on the last page.

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 Sharp CCD	
Total Pixels	1020 (H) x 507 (V), 520K Pixels	
Scanning System	2:1 Interlace	
Frequency	15.734KHz (H), 59.95Hz (V)	
Synchronization	Internal	
Horizontal Resolution	650 TV Lines [Color], 700 TV Lines [B/W]	
Minimum Illumination	F1.2 (30IRE): 0.3 Lux [Color]	
	F1.2 (30IRE): 0.0 Lux [B/W]	
S/N Ratio	52dB (AGC off)	
Video Output	CVBS: 1.0Vp-p / 75 Ω	
LENS		
Focal Length	3.3-12mm	
Lens Type	DC Auto Iris	
IR Distance	85ft Range	
OPERATIONAL		
Lens	MANUAL, DC (000-100)	
Back Light Compensation	OFF, BLC, HME, DIGITAL WDR	
Auto Gain Control	OFF, LOW, MID, HIGH, HIGHEST	
White Balance	AWC, ATW, MANUAL, PUSH	
Color Mode	NORMAL, COOL, WARM	
Day and Night	AUTO, COLOR, B&W	
Mirror	OFF, MIRROR	



OPERATIONAL		
Sharpness	000-030	
Gamma	MANUAL, 0.45, 0.60, 1.00	
Side Light Compensation	OFF, ON (000-030)	
Night Up	OFF, ON	
Motion Detection	OFF, ON (4 Programmable Zones)	
Privacy Zones	OFF, ON (8 Programmable Zones)	
Title	OFF, ON (Up to 16 Characters)	
Dead Pixel Cancellation	OFF, AUTO	
Communication Protocol	PELCO-D	
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	DC12V	
Power Consumption	DC12V: 1.5W / LED ON 4.6W	
MECHANICAL		
Housing Material	Aluminum	
Dimensions	Ø251.2 X 80.6 mm (Ø9.89 X 3.18 in)	
Weight	1.02 lbs	

*Specification is subject to change without prior notice.

MEMO



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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 Eastern Time