DWC-D1362D / D1363D / D1363D922
Indoor Dome Camera

User Manual

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 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.

TROUBLESHOOTING

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

No Video
Check the coaxial cable and make sure it is connected securely.
Check the lens' iris adjustment at 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.
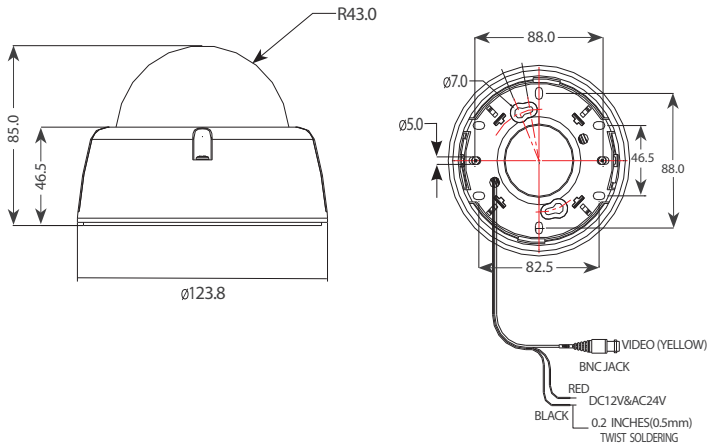Check the lens manual focal and zoom adjustment. Field test monitor is recommended.

FEATURES*- D1362D

- 1/3" Sony Super HAD☒ CCD
- 540 TV Lines
- 3.3~12mm Varifocal Auto Iris Lens
- Electronic Day and Night
- DRC (Dynamic Range Compressor)
- HME (Highlight Masking Exposure)
- SLC (Side Light Compensation)
- AGC / BLC / AWB
- Negative Imaging
- Mirror Image Control

- RS485 Built-In
- Programmable Privacy Zone (4) & Motion Detection
- Easy Icon Driven OSD Menu with Built-In Joystick
- Secondary Video-BNC Output

FEATURES*- D1363D,D1363D922

- 1/3" Sony Super HAD II CCD
- High Resolution 560 TV Lines
- 3.3~12mm Varifocal Auto Iris Lens [D1363D]
  9~22mm Varifocal Auto Iris Lens [D1363D922]
- Electronic Day and Night
- Star-Light (Super Low Light Technology)
- DRC (Dynamic Range Compressor)
- 3D-DNR (3D Digital Noise Reduction)
- HME (Highlight Mask Exposure)
- Negative Imaging
- AGC / BLC / AWB
- Programmable Privacy Zone (6) & Motion Detection
- Easy Icon Driven OSD Menu with Built-In Joystick
- Auto Sensing 12VDC or 24VAC with Line Lock
- Secondary Video-BNC Output

DIMENSIONS IN MILLIMETERS*

R43.0

85.0

46.5

⌀123.8

88.0

⌀7.0

⌀5.0

46.5

88.0

82.5

VIDEO (YELLOW)

BNC JACK

RED

DC12V&AC24V

BLACK

0.2 INCHES(0.5mm)
TWIST SOLDERING

POWER REQUIREMENT*

Maximum Wire Distance		
Wire Gauge	12VDC	24VAC
24 AWG	80ft	323ft
22 AWG	128ft	513ft
20 AWG	203ft	815ft
18 AWG	323ft	1295ft
16 AWG	514ft	2056ft
14 AWG	816ft	3264ft
12 AWG	1295ft	5183ft
10 AWG	2057ft	8228ft

Coaxial Cable Type Maximum Distance

RG59/U   750ft
RG6/U   1,000ft
RG11/U   1,500ft

Power Requirement

12VDC at 1A
24VAC at 500mA

INSTALLATION*
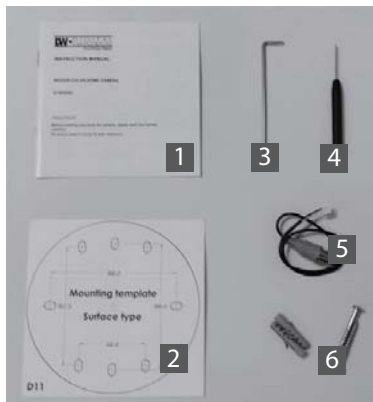
Included with Digital Watchdog Camera:

1. User Manual
2. Mounting Template
3. Security L-Key
4. Single Sided Hex Key
5. Secondary BNC Cable for a Field Monitor
6. Two (2) Screws and Two (2) Dry Wall Anchors

Camera Installation

Use the Mounting Template (2) when mounting the camera.
Use the Security L-Key (3) to loosen the Two Screws (6) that secure the dome cover. Remove the dome cover to access the inner screw holes used to mount the camera.

NOTE: Keep the lens and the dome cover free from dust or fingerprints.

INSTALLATION*

A. Loosen the Fixing Screws (A), using the L-Key.

B. Separate the Upper Case (B) from the Base (F).

C. Loosen the Inner Screws (C), using a screw driver.

D. Detach the Gimbal (D) from the Base (F).

E. Cut a hole in the ceiling for routing the cables.

F. Place the Base (F) horizontally against the ceiling. Drill the screw holes at the two marked positions.

G. Pass the Power Cable (E) and Video Cable (G) from the camera unit through the cable hole in the ceiling.

H. Align the screw holes of the camera unit with the holes in the ceiling. Secure the camera with the two Inner Screws (C).

I. Fix the Gimbal (D) to the Base (F).

J. Install and adjust the camera unit.

K. Adjust the dome to show the lens through the camera window.

L. Attach the Upper Case (B) and the Base (F).

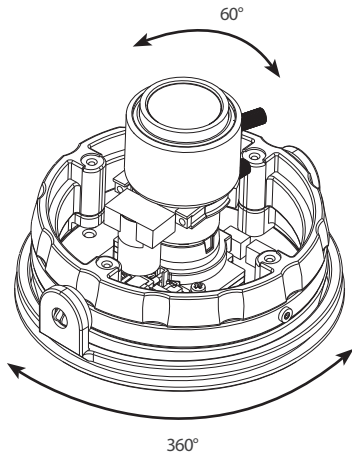M. Tighten the Fixing Screws (A) to fasten the Upper Case(B) to the Base (F).
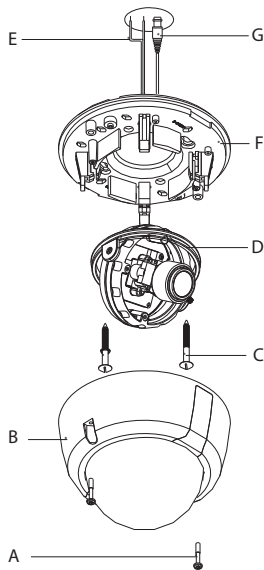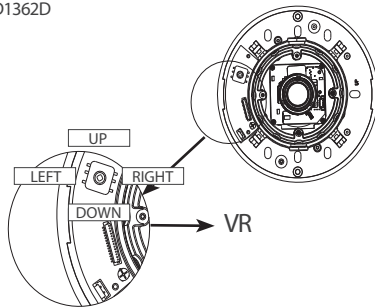
CONNECTION*

DC12V / AC24V

LENS ADJUSTMENT*

60°

360°
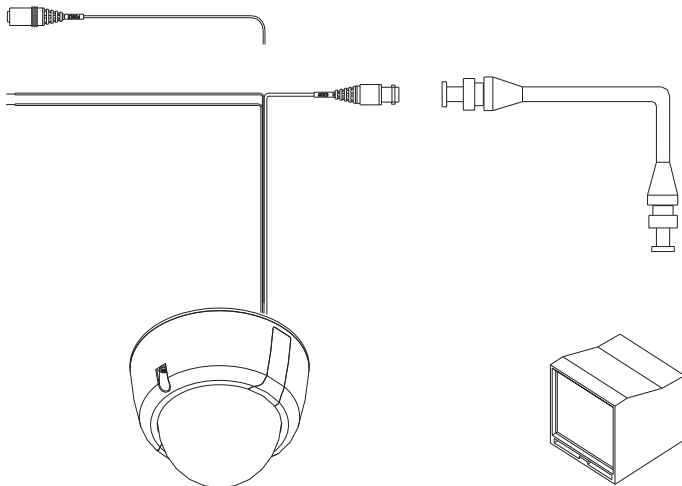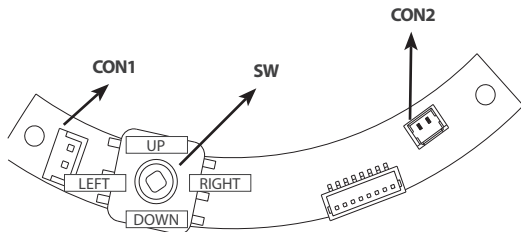
A. Adjust the Pan (360°) and Tilt (60°) positions.
B. Use the Zoom Lever to set the zoom position.
C. Use the Focus Lever to set the focus.

SETTING THE CAMERA*

D1362D

UP

LEFT   RIGHT

DOWN   → VR

D1363D, D1363D922

CON2

CON1   **SW**

UP

LEFT   RIGHT

DOWN

MODULE OSD MENU* (D1362D)

EXPOSURE	COLOR	DAY&NIGHT
EXPO — BRIGHTNESS — SHUTTER — BLC — AGC	**RGB** — WB MODE	**D&N** — D&N MODE

FUNCTION	MOTION	PRIVACY
FUNC — MIRROR — SHARPNESS — GAMMA — SLC — HME — DRC	**MOTI** — ALARM	**PRIV** — MASK 1 — MASK 2 — MASK 3 — MASK 4 — COLOR SET

SYNC	SETUP	EXIT
SYNC — SYNC	**SET** — CAMERA ID — TITLE EDIT — TITLE RESET — TITLE POSITION — DPC SET — LANGUAGE — PC CONT.	**EXIT** — EXIT — SAVE & EXIT — FACTORY RESET

◎SD MENU* (D1362D)

EXPOSURE	
BRIGHTNESS	MANUAL (ELC LEVEL : 0 ~ 100) / DC (DC LEVEL : 0 ~ 31)
SHUTTER	1/60, 1/100FLC, 1/120 ~ 1/100000
BLC	OFF / ON BLC (Back Light Compensation)
AGC	OFF / 12dB ~ 36dB AGC (Auto Gain Control)
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET
COLOR	
WB MODE	AWC / ATW / MANUAL / PUSHLOCK (AWC is recommended.)
R-Y GAIN	0 ~ 255
B-Y GAIN	0 ~ 255
DAY & NIGHT	
Day & Night Mode	**AUTO / COLOR / BW** **COLOR --> BW:** Switching from COLOR to BW; If the number is higher, the camera will only switch during a super low light condition. **BW --> COLOR:** Switching from BW to COLOR; This number should be always lower than COLOR --> BW **Read Time:** Time interval to switch from COLOR to BW COLOR: BW: BURST (OFF/ON); When the burst is OFF, the picture will have less noise.
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET

🖵 FUNCTION	
MIRROR	OFF/ MIRROR
SHARPNESS	0 ~ 49
GAMMA	USER / 0.45 / 0.6 / 1.00
SLC	OFF / ON (0 ~ 50) SLC (Side Light Compensation)
HME	OFF / ON (0 ~ 55) HME (Highlight Masking Exposure)
DIS	OFF /ON DIS (Digital Image Stabilizer)
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET
🖵 **MOTION (OMNI-Plus Cameras Only)**	
MOTION	OFF / ON
	SET WINDOW
	ALL SET (Set the Entire Screen)
	ALL CLEAR (Clear the Entire Screen)
	SENSITIVITY (0 ~ 55)
	SHOW INDICATOR (OFF / ICON / TRACE)
	DELAY OUT(1 ~ 15) Motion Alarm Zoom-In Delay
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET

PRIVACY	
MASK 1	OFF / ON ⏎
MASK 2	OFF / ON ⏎
MASK 3	OFF / ON ⏎
MASK 4	OFF / ON ⏎
COLOR SET	BLACK / GRAY / COLOR 1~ 6
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET
SYNC	
SYNC MODE	INTERNAL / AUTO
V-PHASE	0 ~ 199
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET
SETUP	
CAMERA ID	0 ~ 255
TITLE EDIT	
TITLE RESET	
TITLE POS.	
DPC	OFF / AUTO DPC (Dead Pixel Cancellation)
LANGUAGE	English / Chinese
PC CONT.	OFF / ON
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET
EXIT	
EXIT	Exit the menu
SAVE&EXIT	Exit the menu and save the setting
FACTORY SET	Reset the menu setting to factory default

MODULE OSD MENU* (D1363D, D1363D922)

EXPOSURE		COLOR		DAY&NIGHT	
EXPO	— BRIGHTNESS — SHUTTER — BLC / HME — AGC — STARLIGHT — NIGHT-UP	**RGB**	— WB MODE — R-Y GAIN — B-Y GAIN	**D&N**	— D&N MODE — C_SUP — A_SUP

FUNCTION		MOTION		PRIVACY	
FUNC	— MIRROR — SHARPNESS — GAMMA — FREEZE — NEGATIVE — D-ZOOM — 3D DNR — DRC	**MOTI**	— MOTION	**PRIV**	— PRIVACY

SYNC		SETUP		EXIT	
SYNC	— SYNC	**SET**	— TITLE EDIT — PC CONTROL — LANGUAGE — MONITOR — OSD COLOR — OMNI LENS	**EXIT**	— EXIT — SAVE & EXIT — FACTORY RESET

OSD MENU* (D1363D, D1363D922)

EXPOSURE	
BRIGHTNESS	0 ~ 100
SHUTTER	1/60, FLK, 1/120 ~ 1/100000
BLC/HME	OFF / BLC / HME
AGC	HIGH / MIDDLE / LOW / OFF AGC(Auto Gain Control)
STARLIGHT	AUTO(x2 ~ x256) / OFF
NIGHT-UP	NORMAL / HIGH
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET

COLOR	
WB MODE	AWC / ATW / PUSH LOCK / MANUAL / INDOOR / OUTDOOR
R-Y GAIN	0 ~ 100
B-Y GAIN	0 ~ 100
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET

DAY & NIGHT		
Day & Night Mode	**AUTO: READ TIME (3~63) / S-LEVEL (0~100) / E-LEVEL (0~100)**	
	COLOR --> BW:	Switching from COLOR to BW; If the number is higher, the camera will only switch during a super low light condition
	BW --> COLOR:	Switching from BW to COLOR; This number should be always lower than COLOR --> BW
	Read Time:	Time interval to switch from COLOR to BW.
	COLOR:	
	BW:	BURST (OFF / ON); There is less noise when the BURST is OFF. SMART IR (OFF / ON)
C-SUP	<u>Color Suppression:</u> Color will be reduced at low illumination, if the C-SUP Level is set higher. 0 ~ 63	
A-SUP	<u>Aperture Suppression:</u> The sharpness of the edges will be reduced at low illumination, if A-SUP level is set higher. 0 ~ 15	
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET	

FUNCTION	
MIRROR	OFF/MIRROR/V-FLIP/ROTATE
SHARPNESS	0 ~ 31
GAMMA	0.05 ~ 1.00
FREEZE	OFF / ON
NEGATIVE	OFF / ON
D-ZOOM	OFF / ON (x1.0 ~ x32 PTZ)
3D-DNR	ON (0~100) / OFF 3D-DNR (3D Digital Noise Reduction)
DRC	OFF / INDOOR / OUTDOOR DRC (Dynamic Range Compressor)
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET
MOTION (OMNI-Plus Cameras Only)	
MOTION	OFF ⏎
	ON AREA SELECT (AREA 1~4) AREA SET (POSITION / SIZE) SENSITIVITY (0~40) MOTION TRACE (OFF / ON) MOTION VIEW (OFF / ON) RETURN
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET
PRIVACY	
PRIVACY	OFF
	ON ⏎ AREA SELECT (1~8) AREA SET (POSITION / SIZE) COLOR (0~15) RETURN
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET

SYNC	
SYNC	INTERNAL / AUTO
EXIT JUMP	EXIT / SAVE & EXIT / FACTORY SET
SETUP	
TITLE EDIT	OFF / ON
PC CONTROL (RS485 Control)	CAM ID / ID DISPLAY (OFF/ON) / BAUDRATE (2400 / 4800 / 9600) The protocol is PELCO-D.
LANGUAGE	ENG / KOR / JPN / CHN1 / CHN2 / RUS / FRAN / SPAN / ITAL
MONITOR	CRT / LCD Select LCD only if the camera is directly connected to the LCD monitor.
OSD COLOR	0 ~ 15
OMNI LENS	OFF (OMNI-Plus Cameras Only)
	ON ⏎ ALARM / READ TIME / ALARM ZOOM / STAND BY / RETURN
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET
EXIT	
EXIT	
SAVE&EXIT	
FACTORY SET	

SPECIFICATIONS*

Model		D1362D
Camera TYPE	Color/BW	Indoor Dome Camera
	Mount	Surface
Image	Device	1/3" Super HAD II CCD
	Pixels-Total	811(H) x 508(V)
	Pixels-Effective	768(H) x 494(V)
Scanning	System	525 line, 2:1Interlace
	Horizontal Frequency Internal Mode	15,734Hz
	Vertical Frequency Internal Mode	59.94Hz
Min. Scene Illumination	F1.2	0.1 Lux
OSD Functions	Day & Night	AUTO / COLOR / BW
	BLC	ON/OFF (Area Setting)
	AGC	ON/OFF (Gain Adjust)
	AWB	ATW / AWC / Fixed / Manual
	Mirror	ON/OFF
	Motion Detection	ON/OFF
	Privacy Zone	4 Programmable Zone / Size
Lens	Focal Length	3.3 ~ 12mm Varifocal Auto Iris Lens
Resolution	Horizontal	540TV Lines
Video Output	VBS 1.0Vp-p	VBS 1.0Vp-p(75 Load)
S/N Ratio	S/N Ratio	50dB
Environmental Conditions	Operating Temperature	-10°C ~ +55°C (14°F ~ 131°F)
	Humidity	Less than 90%
Power	Power Requirement	12VDC
	Power Consumption	0.9W, 75mA
Physical Specification	Dimensions (φ x H)	123.8 x 85.0mm(4.87 X 3.35 in)
	Weight	0.7 lbs
Certifications	CE, FCC, RoHS	Certified

SPECIFICATIONS*

Model		D1363D, D1363D922
Camera TYPE	Color/BW	Indoor Dome Camera
Image	Mount	Surface
	Device	1/3" Super HAD II CCD
	Pixels-Total	811 (H) x 508 (V)
	Pixels-Effective	768 (H) x 494 (V)
VV Scanning	System	525 line, 2:1Interlace
	Horizontal Frequency Internal Mode	15,734Hz
	Horizontal Frequency Line-Lock Mode	15.750Hz
	Vertical Frequency Internal Mode	59.94Hz
	Vertical Frequency Line-Lock Mode	60Hz
Min. Scene Illumination	F1.2	0.14 Lux
Functions	Star-Light	OFF / AUTO (x2 ~ x256)
	3D-DNR	OFF / AUTO
	AGC	OFF / LOW / MIDDLE / HIGH
	AWB	ATW/AWC/INDOOR/OUTDOOR/MANUAL/PUSH LOCK
	Motion Detection	ON /OFF (Area, Sensitivity, Trace)
	Privacy Zone	8 Programmable Zone / Size
Lens	Focal Length	3.3~12mm [D1363D], 9~12mm [D1363D922]
Resolution	Horizontal	560TV Lines
Video Output	VBS 1.0Vp-p	VBS 1.0Vp-p(75 Load)
S/N Ratio	S/N Ratio	52dB
OSD	OSD	YES
Environmental Conditions	Operating Temperature	-10°C~ +55°C(14°F ~ 131°C)
	Humidity	Less than 90%
Power	Power Requirement	12VDC / 24VAC
	Power Consumption	12VDC: 1.96W, 163.3mA / AC24V: 2.2W, 91.7mA
Physical Specification	Dimensions(H x L)	123.8 X 85 mm (4.87 X 3.35 in)
Certifications	CE, FCC, RoHS	Certified

WARRANTY INFORMATION*

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

LABOR : For the initial five (5) years from the date of original purchase,
if the camera is determined to be defective,
the Warrantor will repair or replace the unit, with 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.

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.

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 and 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 next 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.

DW• DIGITAL WATCHDOG

Everything's Digital