

Operation Manual

1/3" High Resolution Face View Camera WDC-4605XV







The lightning flash With an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intendede to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance

Regulatory Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions :

(1)This device may not cause harmful interference, and

(2) this device must accept any interference received, including

interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and use in accordance with the instructions, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause interference, in which case the user will be required to correct the interference at his own expense.

WARNING- Changes or modifications not expressly approved by the manufacturer could void the users authority to operate the equipment. CAUTION- To prevent electric shock and risk of fire hazards:

• Do NOT use power sources other than that specified. • Do NOT expose this appliance to rain or moisture.

1.0 Features

- 1/3" Sony Super HAD CCD
- User Friendly OSD Menu Control
- High Resolution of 600 TV Line
- Easy Camera Level Adjustment
- Day& Night
- Dual Power : DC 12V and AC 24V
- DNR (Digital Noise Reduction)
- Privacy Function

2.0 Warnings

- The camera needs periodic inspection. Contact an authorized technician for inspection.
- Stop using your camera when you find a malfunction. If you use your camera around smoke or unusual heat for a long time, fire may be caused.
- Do not Install the camera on a surface that can not support it.

Unless the surface is suitable, it could cause falling or other hazards.

• Do not hold plug with wet hands.

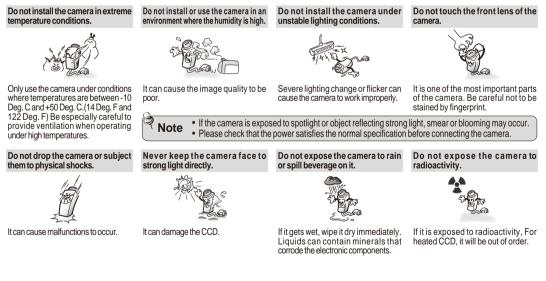
It could cause an electric shock.

• Do not disassemble the camera.

It may result in fire, electric shock or other hazards.

• Do not use the camera close to a gas or oil leak. It may result in fire or other hazards.

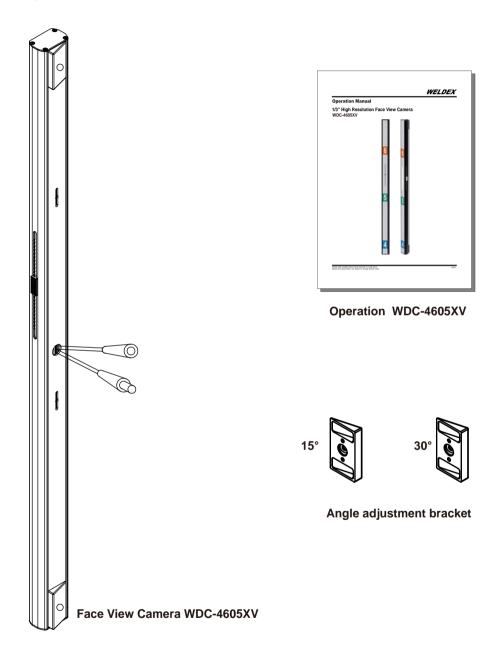
3.0 Precautions



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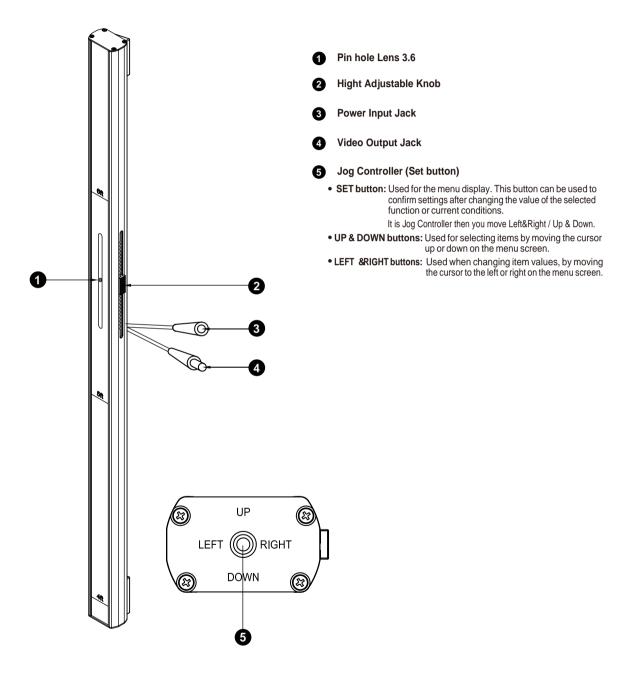
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4.0 Components

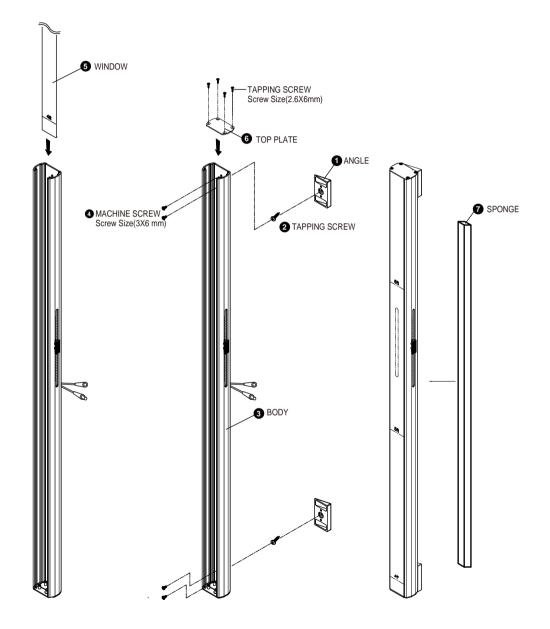


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5.0 Names and Function of Parts



6.0 Installation



6.0 Installation

Please refer to the Installation Picture Page.7

- 1. Place 2 Angle Brackets(Angle adjustable 15°/30°) to right position(Top & Bottom).
- 2. Tapping screw bolted(4 x 16mm)
- 3. Make 2 holes to wall where you want to install (6ft 7.8" from the ground/4ft location)
- 4. M3 Screw bolted((3 x 6mm)
- 5. Insert Window into Body
- 6. Tighten tapping screws after placing a Top Plate (screw size: 2.6 x 6mm)
- 7. Attach sponge between 2 angles

7.0 Setup Menu

7.1 MAIN MENU

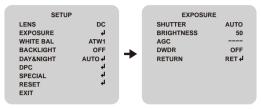
SETUP	•
LENS	DC
EXPOSURE	له.
WHITE BAL	ATW1
BACKLIGHT	OFF
DAY&NIGHT	AUTO 🖊
DPC	له
SPECIAL	له
RESET	له
EXIT	

The menu consists of the "Main Menu" and "Sub Menu". The main menu is 8 kinds of camera functons can be selected. To the right of each main menu selection, the sub-menu is displayed.

LENS

- · LENS : Select lens type
- ▷ DC /VIDEO / MENUAL

7.2 EXPOSURE



- SHUTTER : You can set to auto or manual mode.
 ▷ AUTO, 1/60(50), FLK, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/5000, 1/10000, 1/10000sec
- BRIGHTNESS : You can adjust brightness level.
- ▷ 0(dark) ~ 255 (bright) steps
- AGC : You can select auto gain control level
 ▷ OFF / LOW / MIDDLE / HIGH
- DWDR : You can select WDR (Wide Dynamic Range) level.
 ▷ DWDR : OFF / ON
 - ▶ LEVEL : 0~35 steps

7.3 WHITE BALANCE



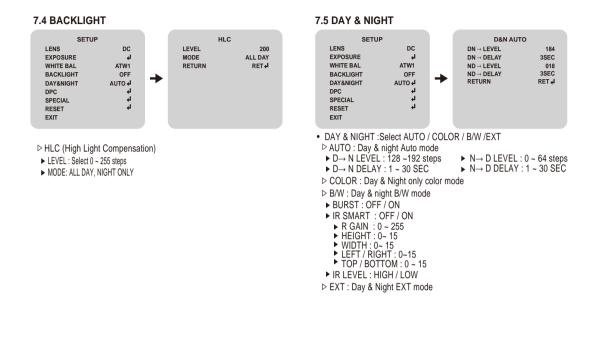
- WHITE BAL : You can select white balance mode. ▷ ATW1 / ATW2 / AWC → SET / MANUAL
 - (INDOOR / OUTDOOR /MANUAL)
 - ► ATM1 : Automatically adjusts color according to the available lighting. $(2500^\circ K \rightarrow 9500^\circ K)$
 - ATW2 : Automatically adjusts color according to the available lighting. (2300°K → 10000°K)
 AWC→SET : It is a fixed white balance mode that may be automatically readjusted only by
 - AWG → SET . It is a fixed while balance mode that a processing SET Putter in ONE DUSH mode.
 - ► pressing SET Button in ONE PUSH mode.
 - ► OUTDOOR : Set color temperature to be Outdoor light (5400°K)
 - ► INDOOR : Set color temperature to be Indoor light (3200°K)
 - MANUAL : Color can be corrected when the user increases or decreases "Red Gain" or "Blue Gain"
 - ▶ RED GAIN : Adjust R gain value 0 ~ 255
 - ▶ BLUE GAIN : Adjust B gain value 0 ~ 255

7.4 BACKLIGHT

SETU	Р		BLC	
LENS EXPOSURE WHITE BAL BACKLIGHT DAY&NIGHT DPC SPECIAL	DC لم ATW1 OFF AUTO لم لم	+	AREA SEL AREA STATE GAIN HEIGHT WIDTH LEFT/RIGHT TOP/BOTTOM RETURN	AREA1 ON 042 005 004 006 005 RET 4
RESET	لې		RETORN	NLI+

BACKLIGHT :Select OFF / BLC / HLC

- ▷ BLC (Back Light Compensation)
- ► BLC : Select area, gain
- AREA SEL : Select AREA1, AREA2
 AREA STATE : Select OFF / ON
- GAIN : Select 0 ~ 255 steps
- GAIN : Select 0 ~ 255 steps
 HEIGHT : Select 0 ~ 15 steps
- WIDTH : Select 0 ~ 15 steps
- LEFT / RIGHT : Select 0 ~ 15 steps
- TOP / BOTTOM : Select 0 ~ 15 steps



7.6 DPC (Dead Pixel Compensation)



DPC : Select dead pixel compensation processing

7.7 SPECIAL

SETU	Р	SPE	CIAL
LENS	DC	CAM TITLE	OFF
EXPOSURE	له	MOTION	OFF
WHITE BAL	ATW1	PRIVACY	OFF
BACKLIGHT	BLC	PARK.LINE	OFF
DAY&NIGHT	AUTO 🖊	IMAGE ADJ.	له
DPC	له	COMM ADJ.	له
SPECIAL	له	LANGUAGE	ENGLISH
RESET	له.	VERSION	21 01 10
EXIT		RETURN	RET ↓

- CAM TITLE : Select camera title menu (Text edit).
- MOTION : Select camera title menu (Text edit)
- ► AREA SEL : Select AREA1, AREA2, AREA3, AREA4
- AREA STATE : Select OFF / ON
- ► HEIGHT : Select 0 ~ 15 steps
- ▶ WIDTH : Select 0 ~ 15 steps
- ► LEFT / RIGHT: Select 0 ~ 15 steps
- ► TOP / BOTTOM : Select 0 ~ 15 steps
- ▶ DEGREE : Select 0 ~ 255 steps
- ► VIEW : OFF / ON

7.7 SPECIAL

- PRIVACY : You can select Hide an area on the screen. ▷ AREA SEL : Select AREA1, AREA2, AREA3, AREA4. AREA5.
 - AREA6, AREA7, AREA8
 - ▷ AREA STATE : Select OFF / ON
 - ▷ HEIGHT : Select 0 ~ 124 steps
 - ▷ WIDTH : Select 0 ~ 200 steps
 - ▷ LEFT / RIGHT: Select 0 ~ 200 steps
 - ▷ TOP / BOTTOM : Select 0 ~ 124 steps
 - ▷ COLOR : Select 0 ~ 15 steps
- PARK. LINE : You can select parking line on the screen.
 - ▷ LT : You can adjust the top left area on screen.(0 ~ 255 steps)
 - ▷ LB : You can adjust the bottom left area on screen.(0 ~ 255 steps)
 - ▷ RT : You can adjust the top right area on screen.(0 ~ 255 steps)
 - ▷ RB : You can adjust the bottom right area on screen.(0 ~ 255 steps)
 - ▷ F : You can adjust the front area on screen.(0 ~ 255 steps)
 - ▷ N : You can adjust the near area on screen (0 ~ 255 steps)
 - ▷ T : You can adjust the parking line thickness.(0 ~ 15 steps)

7.7 SPECIAL

SPECI	AL		IMAGE A	DJ.
CAM TITLE	OFF		LENS SHAD.	OFF
MOTION	OFF		2DNR	ON
PRIVACY	OFF		MIRROR	OFF
PARK.LINE	OFF	- N	FONT COLOR	له
IMAGE ADJ.			CONTRAST	138
COMM ADJ.			SHARPNESS	021
LANGUAGE	ENGLISH		DISPLAY	CRT 🚽
VERSION	21 01 10		NEG. IMAGE	OFF
RETURN	RET 🚽		RETURN	RET 🖊

- IMAGE ADJ. : You can adjust camera image.
 - ▷ LENS SHAD : You can adjust lens shading on screen.
 - ► LEVEL : 0 ~ 255 steps
 - ▷ 2DNR : You can select Digital Noise Reduction on screen. (OFF/ON)
 - MIRROR : You can select mirror on screen. (OFF/ON)
 - ▷ FONT COLOR : You can select font color on screen.
 - ► FONT : 0 ~ 15 steps
 - ▶ ID & TITLE : O ~ 15 steps

7.7 SPECIAL

- CONTRAST : You can adjust contrast on screen. (0 ~ 255 steps)
- ▷ SHARPNESS : You can adjust sharpness on screen. (0 ~ 31 steps)
- ▷ DISPLAY : You can adjust display. (CRT / LCD / USER)
 - CRT (Cathode Ray Tube, Braun tube)
 - ▶ PED LEVEL : 0 ~ 63 steps
 - COLOR GAIN : 0 ~ 255 steps
 - LCD (Liquid Crystal Display)
 - ▶ GAMMA : 0.05 ~ 1.00 steps
 - PED LEVEL : 0 ~ 63 steps
 - COLOR GAIN : 0 ~ 255 steps
 - USER
 - GAMMA : 0.05 ~ 1.00 steps .
 - PED LEVEL : 0 ~ 63 steps
 - COLOR GAIN : 0 ~ 255 steps ►
- ▷ NEG.IMAGE : You can select negative display. (OFF/ON)

7.7 SPECIAL

SPEC	AL	COMM	ADJ.
CAM TITLE	OFF	CAM ID	001
MOTION	OFF	BAUD RATE	9600
PRIVACY	OFF	PROTOCOL	PELCO-D
PARK.LINET	OFF	DISPLAY ID	OFF
IMAGE ADJ.		ID POS	لم.
COMM ADJ.		RETURN	RET 🚽
LANGUAGE	ENGLISH		
VERSION	21 01 10		
RETURN	RET 🚽		

- COMM ADJ. : You can adjust command. ▷ CAM ID : Select the camera ID

 - ▶ 0 ~ 255
 - ▷ BAUD RATE : Select serial communication speed.
 - ▶ 2400 / 4800 / 9600 / 19200 / 38400 / 57600 bps
- ▷ PROTOCOL : Select operating protocol
 - PELCO-D / PELCO-P
- ▷ DISPLAY ID : Select display item.
 - OFF/ON
- ▷ ID POS : You can adjust ID position on screen.
- LANGUAGE : You can select language
- ▷ ENGLISH / CHINESE
- · VERSION : Factory vision.
- · RESET : Factory default reset.

8 TROUBLESHOOTING

If there are problems in operation, please refer to the items below.

If the problem persists, please contact the agent you purchased this product from.

Problems	Troubleshooting
Nothing appears on the screen.	 Please check the power connection. Please check the video signal line connection. Please check and make sure that the lens mode is set to DC (VIDEO) when using a VIDEO (DC) lens.
The video image is not clear.	 Please clean the lens with a clean cloth or brush. Please adjust that the screen is not exposed directly to a bright light. Please move the camera if necessary. Please readjust the back-focus of the camera.
The screen is dark.	 Please adjust the contrast feature of the monitor. If you have an intermediate device, set the 75Ω /Hi-Z properly, and check the terminals. Please check if an auto iris lens is being used and adjust the brightness level.
The MOTION DETECTION function is not working	 Please check if "MOTION DETECTION" mode is turned on. Please check if the MD Sensitivity is too low. Please check the setting of the MD AREA.
The WDR function is not working	 Please check if the WDR Level is too low. Please check if the AE Mode is set to MANUAL. The WDR doesn't work in MANUAL Exposure mode.
Colors are not quite right.	 Please check if the camera is facing directly into sunlight or fluorescent light. Please check if an auto iris lens is being used. Please check the connection of the lens connector cable.
The Day&Night function doesn't work	 Please check if the AGC of EXPOSURE menu is set to OFF. The Auto Day&Night Function doesn't work in AGC OFF.

9. Specification

SPECIFICATIONS				
	NTSC	PAL		
Power Source	AC 24 Volt & DC 12 Volt, Power Dual	AC 24 Volt & DC 12 Volt, Power Dual		
CDD				
Total Pixels	811(H) x 508(V)	795(H) x 596(V)		
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)		
Size	1/3 inch Interline Transfer CCD	1/3 inch Interline Transfer CCD		
Scanning System	2:1 Interlace	2:1 Interlace		
SYNC				
Synchronization	INT/LL Selectable, 0~359° (Adjustable)	INT/LL Selectable, 0~359° (Adjustable)		
Frequency	Horizontal:15.734 KHz Vertical :59.94 Hz	Horizontal: 15.625 KHz Vertical : 50.00 Hz		
ELECTRICAL				
Resolution	600 TV Lines	600 TV Lines		
Video Output	1.0Vp-p/75 (Video 0.714Vp-p Sync 0.286Vp-p)	1.0Vp-p/75 (Video 0.7Vp-p Sync 0.3Vp-p)		
S/N (Y signal)	50dB (AGC Off)	50dB (AGC Off)		
Min. Illumination	0.3Lux/F1.2(Color), 0.1Lux/F1.2(B/W), 0.002Lux(Sens-up)	0.3Lux/F1.2(Color), 0.1Lux/F1.2(B/W), 0.002Lux(Sens-up)		
COLOR	ON/AUTO	ON/AUTO		
Gain Control	OFF / LOW / MIDDLE / HIGH	OFF / LOW / MIDDLE / HIGH		
White Balance	ATW/AWC/MANUAL(1,800°K~10,500°K)	ATW/AWC/MANUAL(1,800°K~10,500°K)		
Electronic Shutter Speed	AUTO/MANUAL(1/60~1/120,000)	AUTO/MANUAL(1/50~1/120,000)		
Sens-Up	ON/AUTO	ON/AUTO		
O.S.D	Built-in	Built-in		
Motion Detection	ON / OFF (4 Programmable Zone)	ON / OFF (4 Programmable Zone)		
DNR	OFF / LOW / MIDDLE / HIGH(Noise Reduction)	OFF / LOW / MIDDLE / HIGH(Noise Reduction)		
Mirror	Built-in(Horizontal Image Inversion)	Built-in(Horizontal Image Inversion)		
Privacy Function	ON / OFF (4 Programmable Zone)	ON / OFF (4 Programmable Zone)		
Lens Size	2.9mm	2.9mm		
Operation Temp. / Humidity	-10 °C ~ +50 °C / 30~90% RH	-10 °C ~ +50 °C / 30~90% RH		
Weight				



Original Equipment Manufacturer of CCD Cameras, DVR's & LCD Monitors

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