

Star-Light Plus[™] 5MP Universal HD over Coax[®] indoor Snapit[™]

dome camera

DWC-D4583WTIR





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



Color in Darkness Universal HD over Coax® cameras

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Safety Information





This symbol indicates that dangerous voltage consisting a risk of electric shock is present within this unit.



This exclamation point symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance

WARNING

To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

WARNING

- Be sure to use only the standard adapter that is specified in the specification sheet. Using any other adapter could cause fire, electrical shock, or damage to the product.
- Incorrectly connecting the power supply or replacing battery may cause explosion, fire, electric shock, or damage to the product.
- Do not connect multiple cameras to a single adapter. Exceeding the capacity may cause abnormal heat generation or fire.
- 4. Securely plug the power cord into the power receptacle. Insecure connection may cause fire.
- 5. When installing the camera, fasten it securely and firmly. A falling camera may cause personal injury.
- Do not place conductive objects (e.g. screw drivers, coins, metal things, etc.) or containers filled with water on top of the camera. Doing so may cause personal injury due to fire, electric shock, or falling objects.

Safety Information

- Do not install the unit in humid, dusty, or sooty locations. Doing so may cause fire or electric shock.
- If any unusual smells or smoke come from the unit, stop using the product. In such case, immediately disconnect the power source and contact the service center. Continued use in such a condition may cause fire or electric shock.
- 9. If this product fails to operate normally, contact the nearest service center. Never disassemble or modify this product in any way.
- 10. When cleaning, do not spray water directly onto parts of the product. Doing so may cause fire or electric shock.

PRECAUTION

Operating

- · Before using, make sure power supply and all other parts are properly connected.
- While operating, if any abnormal condition or malfunction is observed, stop using the camera immediately and contact your dealer.

Handling

- · Do not disassemble or tamper with parts inside the camera.
- \cdot Do not drop the camera or subject it to shock or vibration as this can damage the camera.
- · Clean the clear Lens cover with extra care. Scratches and dust can ruin the quality of the camera image.

Installation and Storage

- · Do not install the camera in areas of extreme temperature, exceeding the allowed range.
- · Avoid installing in humid or dusty environments.
- · Avoid installing in places where radiation is present.
- \cdot Avoid installing in places where there are strong magnetic fields and electric signals.
- · Avoid installing in places where the camera would be subject to strong vibrations.
- · Never expose the camera to rain or water.

Important Safety Instructions

- 1. Read these instructions.
- All these safety and operating instructions should be read before the product is installed or operated.
- 2. Keep these instructions.
- The safety, operating and use instructions should be retained for future reference.
- 3. Heed all warnings.
- All warnings on the product and in the operating instructions should be adhered to.
- 4. Follow all instructions.
- All operating and use instructions should be followed.
- 5. Do not use this device near water.
- For example: near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, etc.
- 6. Clean only with dry cloth.
 - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of the
 product, and to protect it from over-heating. The openings should never be blocked by placing the
 product on bed, sofa, rug or other similar surface. This product should not be placed in a built-in
 installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's
 instructions have been adhere to.
- 8. Do not install near any heat sources such as radiators, heat registers, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Important Safety Instructions

- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.



- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Disposal of Old Appliances



- When this crossed-out wheel bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
- All electrical and electronic products should be disposed of separately form the municipal waste stream in accordance to laws designated by the government or the local authorities.
- The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
- For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

FCCE

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 when the equipment is operated in a commercial environment.

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

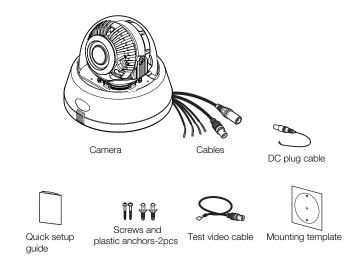
Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Features

- Universal HD over Coax[®] technology with HD-Analog, HD-TVI, HD-CVI and all analog to 960H signal support
- Star-Light Plus[™] color in darkness technology
- 1/2.8" image sensor
- 5MP at 20fps, 4MP at real-time 30fps
- Built-in microphone
- 2.7~13.5mm vari-focal motorized zoom p-iris lens with auto-focus
- True wide dynamic range (WDR)
- OSD control via coaxial (UTC)
- Snapit[™] easy installation housing
- 70' Smart IR[™] with intelligent camera sync.
- Smart DNR[™] 3D digital noise reduction
- True day/night mechanical IR cut filter
- De-Fog[™] extreme weather image compensation Auto
- sensing 24VAC/12VDC with line lock
- Easy icon driven OSD menu with built-in joystick
- Programmable privacy zones
- Auto gain control (AGC)
- Backlight compensation (BLC)
- Auto white balance (AWB)
- 1 alarm output
- UTP built-in
- 5 year warranty

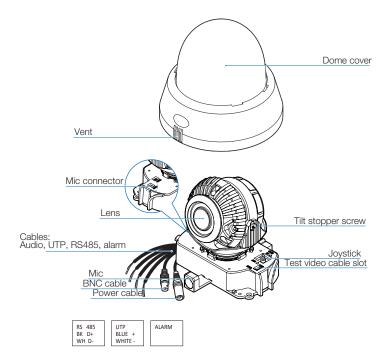
Product and Accessories

Please check if all the camera and accessories are included in the package.



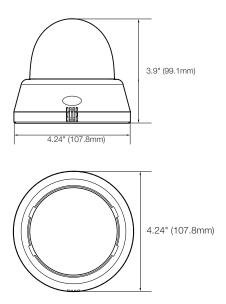
NOTE: The test video cable should be used to test the camera by connecting to a portable display.

Parts Names



Dimension

Unit: inches (mm)



Installation - Disassemble the camera

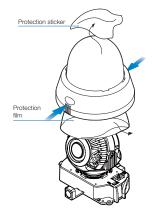
Before installing your camera, read the following cautions.

- 1. The mounting surface must withstand five times the camera weight.
- Do not let the cables get caught in improper places or the electric line cover can be damaged. This may cause a short or fire.
- 3. When installing your camera, do not allow any person to approach the installation site. If you have any valuable things under the place, move them away.

Disassembling the camera for installation 1.

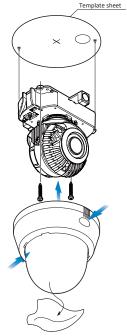
Detach the dome cover from the camera body by pressing on both sides of the dome.

2. Remove the dome protection film before the installation.



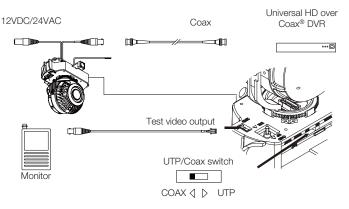
Installation - Instructions

- Using the mounting template or your camera, mark and drill the necessary holes to mount the bracket to a wall or ceiling.
- Pull a necessary wires through and make the proper connections. See pages 14-15.
- Ouse the two mounting screws to install the camera on the wall or ceiling. See page 16 for tilting and pan adjustment options.
- Adjust the camera's zoom and focus and tilt and rotation as needed. See page 16 for more information.
- When the installation is completed, place the camera's dome over the camera's body by clicking the dome into place.
- Obtach the protection film from the dome to complete the installation.



Connecting to Monitors (Coax)

Use the diagram below to connect the camera to a Universal HD over Coax[®] DVR or CRT monitor when the camera is in Coax video output mode (default mode).



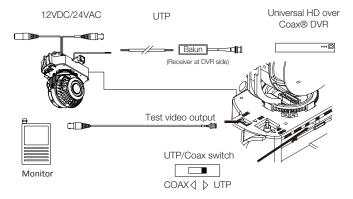
- Power connection - 12VDC/24VAC dual voltage (auto polarity detection and protection)

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

- NOTE: To use your Star-Light Plus[™] 5MP cameras at a lower resolution, you must use a VMAX[®] A1 Plus[™] DVR to access the camera's menu due to the cameras being set to 5MP as the default. A DVR that does not support 5MP resolution may recognize the camera, but will not deliver a picture.
- NOTE: When switching the UTP/Coax switch to Coax, no image output will be available when using UTP.

Connecting to Monitors (UTP)

Use the diagram below to connect the camera to a Universal HD over Coax[®] DVR or CRT monitor when the camera is in UTP video output mode



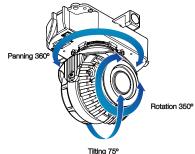
- Power connection - 12VDC/24VAC dual voltage

(Auto polarity detection and protection)

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

MOTE: When switching the UTP/Coax switch to UTP, no image output will be available when using Coax.

Adjusting the Camera angle



Adjusting the camera angle

Adjust the camera angle while the camera is fixed on the ceiling. Pan is used to rotate the camera's body to left and right, and Tilt is used to adjust the tilt. Rotating the lens by its axis is called Rotation.

- Panning: 360°
 - Rotation: 350°
 - Tilting: 75°

Adjusting the camera lens

- 1. Remove the camera's dome by pressing on the sides of the camera body.
- 2. Use the joystick on the base of the camera to adjust the zoom and focus.
 - a. Up: zoom in
 - b. Down: zoom out
 - c. Left: near
 - d. Right: far



🛛 Warning:

- Do not rotate more than 360°
- Do not twist the camera's bracket too many times.

OSD Menu Tree

6	EXPOSURE
EXPO	

LENS	MANUAL / AUTO
2-MOTOR	AF MODE / D&N FILTER / INITIAL
BRIGHTNES	\$\$ ~ 20
SHUTTER	AUTO / MANUAL / FLICKER
BACK-LIGH	TOFF / HME / BLC / WDR
STARLIGHT	OFF / x2 ~ x32
AGC	0 ~ 10
3D DNR	OFF / LOW / MIDDLE / HIGH
RETURN	

AV & NIGHT (IR OPTION)

MODE	AUTO / COLOR / B&W
IR LED	ON / OFF
SMART IR	0 ~20
D>N THRES	0~ 20
N>D THRES	0 ~ 20
DELAY	LOW / MIDDLE / HIGH
RETURN	

FUNCTION

SHARPNESS 0 ~ 10		
GAMMA	0.45 ~ 0.75	
MIRROR	OFF / ON	
FLIP	OFF / ON	
D-ZOOM	X1.0 ~ X16.0	
DRC	OFF / ON	
DEFOG	OFF / ON	
RETURN		

COLOR

WHITE BAL. AUTO / AUTOext / PRESET / MANUAL

COLOR GAIN 0 ~ 20

RETURN

OSD Menu Tree

MOTION

DET WINDOWS			
SENSITIVITY	0 ~ 10		
MOTION OSD	OFF / ON		
TEXT ALARM	OFF / ON		
SIGNAL OUT	OFF / ON		
RETURN			

PRIVACY

BOX	OFF / ON
POLYGON	OFF / ON
RETURN	

SETUP

COMM.	CAM ID / BAUDRATE / CONFIRM
OUTPUT	FRAME RATE / FREQ / ANALOG MODE / CONFIRM
LANGUAGE	ENG/CHN/CHN(S)/JPN/KOR
CAM TITLE	RIGHT UP / LEFT DOWN
RESET	OFF / ON
RETURN	

EXIT

SAVE & EXIT

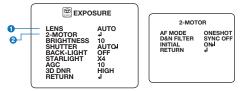
EXIT

RETURN

OSD Menu_Exposure

LENS

Manual: Manual mode supports the fixed board lens or the manual iris lens. Auto: AUTO mode sets the camera's iris automatically.



2-motor

Enter the 2-Motor lens sub-menu. In this menu, you can adjust the following options:

AF mode

- ONESHOT: Select for auto focus.
- MANUAL: Select to manually adjust the camera's focus and zoom.

D&N filter

Select to synchronize the camera's auto focus when the camera changes between day and night modes.

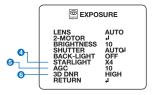
Initial

Start the camera's two motor lens.

OSD Menu_Exposure

HME (Ingrit masking exposure) HME allows objects to appear clearly on the screen by masking extremely bright areas. To setup HME, set the level and color of the HME mask. The lower the number, the darker the areas have to be in	EXPOSURE LENS AUTO LMOTOR J BRIGHTNESS 10 HUTTER AUTOJ SACK-LIGHT OFF STARLIGHT X4 AGC 10 DDNR HIGH BTURN J
Color: Set the color of the HME masks. Select from:	
black, white, yellow, cyan, green, magenta, red and blue. BLC (back-light compensation)	BACK-LIGHT
If BLC is selected, adjust the size and position of the BLC mask:	COLOR RETURN
 H-POS: Move the mask's position left or right. The higher the number, the mask will move to the right. 	
- V-POS: Move the mask's position up or down. The higher the number, the mask will move down.	
 H-Size: Adjust the mask's width. The higher the number, the right side panel of the mask will move further to the right. 	BACK-LIGHT H-POS V-POS
 V-Size: Adjust the mask's height. The higher the number, the bottom side panel of the mask will move further down. 	H-SIZE V-SIZE RETURN ∳
WDR (Wide Dynamic Range)	
If WDR is selected, adjust the WDR level (weight) in the sub-menu. Select from low, middle, or high (default).	
- WDR mode: Line (sensor WDR), frame (double scan WDR)	BACK-LIGHT WDB MODE FRAME
ROI mode: Enable WDR only in a set interest area. Weight: Available only in when normal mode is selected.	ROI MODE OFF WEIGHT HIGH RETURN
 ROI (region of interest) For a more efficient WDR distribution across the scene, you can setup up to 4 WDR regions. 	
20	

OSD Menu_Exposure (cont.)



④ Star-Light™

Off / x2 ~ x32 (default : x4) - Automatically activate the camera's slow shutter when the image is too dark. High values are not recommended as they may causes the image to lag and increase digital noise. The Star-Light™ menu cannot be controlled if the shutter settings are above 1/30.

⁶ AGC (auto gain control)

0~10

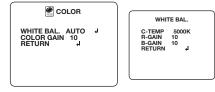
AGC enhances the picture brightness in low light conditions.
 A higher level AGC will make the image brighter. This could also increase the amount of digital noise in the image.

6 3D DNR (3D digital noise reduction)

Off, low, middle, high - 3D-DNR reduces digital noise on the camera's view in low light conditions and allows for clearer images, even at night.

OSD Menu_Color

WB mode



Auto Compensates for color temperature changes between 2400K° and 12000K°.

AUTOext Compensates for color temperature changes under 2400K° and over 12000K°.

Preset Automatically set the white balance based on the current lighting conditions.

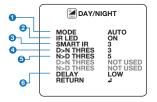
Manual Manually set the white balance by changing red gain and blue gain.

C-Temp: Select the color temperature for the white balance setup. If enabled, the red and blue gain settings will be set automatically according to the C-TEMP selected.

Red gain: 0 ~ 20. Adjusts the amount of red in the image.

- Blue gain: 0 ~ 20. Adjust the amount of blue in the image.
- **Color gain** Set the color gain from 0~20.

OSD Menu_Day and Night



DAY	& NIGHT
	COLOR NOT USED NOT USED

DAY & NIGHT		
MODE B&W IR LED ON SMART IR 3 RETURN d		

Mode

- Auto: The camera will switch between day and night modes according to the CDS levels.
- Color: The camera will remain in color/day mode.
- B&W: The camera will remain in B/W/night mode.

IR LED

On, off: Enable or disable the IR LEDs in the camera.

Smart IR™

Setting the level for the Smart IR™ function.

O>N THRES

Adjust the time settings when the camera will switch from color to BW mode.

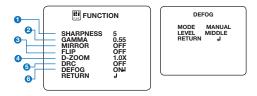
6 N>D THRES

Adjust the time settings when the camera will switch from BW to color mode.

O Delay

Set a delay for when the camera switches between day and night modes.

OSD Menu_Function



Sharpness

0 ~ 10: Set the image's sharpness. The higher the number, the sharper the image.

2 Gamma

0.45 ~ 0.75: Select the desired gamma level. 0.55 is the default setting.

8 Mirror, flip

Off

Mirror: Reflects the camera horizontally.

Flip: Reflects the camera vertically.



4 D-Zoom

1.0x ~ 16.0x: Sets the digital zoom.

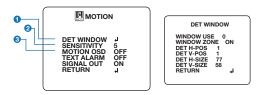
ORC (digital image stabilizer)

Low, middle, high: Set the DRC levels.

OEFOG

Off, on: Set the De-fog levels.

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



DET window

- Window use: Select which one of the motion areas to enable.

- Window zone: The camera supports up to 4 different masks. Select which ones to display.

- DET H-POS:	Move the zone's position left or right. The higher the number, the zone will move to the right.
- DET V-POS:	Move the zone's position up or down. The higher the number, the zone will move down.
- DET H-Size:	Adjust the zone's width. The higher the number, the right side panel of the zone will move further to the right.
- DET V-Size:	Adjust the zone's height. The higher the number, the bottom side panel of the zone will move further down.

Sensitivity

The smaller the movement you want to detect, the higher the sensitivity value must be.

O Motion OSD

Enable or disable showing the motion detection on the camera's OSD.

OSD Menu_Motion (cont.)

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



4 Text alarm

Setup a text to appear on the screen when motion is detected.

- Window motion: Will appear when a motion alarm is detected in the set motion window.
- Camera moving: Will appear if the camera is shaken abruptly.
- Bright change: Will appear if the camera detects sudden changes in brightness.

6

Signal out (off, on)

- Off: Signal output is disable regardless of motion detection.
- On: Signal output will be activated when motion is detection in the motion window.

OSD Menu_Privacy

You can hide some parts of the camera's view to protect privacy and sensitive data. A total of 24 privacy masking zones are available, including 16 square zones and 8 polygon shaped zones.

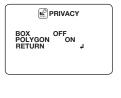
PRIVACY	вох
BOX ON POLYGON OFF RETURN J	ZONE NUM 0 ZONE DISP ON H-POS 12 V-POS 2 H-SIZE 3 V-SIZE 3 V-SIZE 3 V-SIZE 10 CB LEVEL 10 CR LEVEL 10 TRANS 0 RETURN J

Box

- Zone num: Select the zone number between 0~15.
- Zone disp: Select to show or hide the selected zone.
- H-POS: Move the zone's position left or right. The higher the number, the zone will move to the right.
- V-POS: Move the zone's position up or down. The higher the number, the zone will move down.
- H-Size: Adjust the zone's width. The higher the number, the right side panel of the zone will move further to the right.
- V-Size: Adjust the zone's height. The higher the number, the bottom side panel of the zone will move further down.
- Y level: The higher the number, the brighter the color of the zone will appear.
- CR level: The higher the number, the more red tone will be added to the zone's color. The lower the number, the more green will be added to the zone's color.
- CB level: The higher the number, the more red tone will be added to the zone's color. The lower the number, the more red will be added to the zone's color.
- Trans: Set the mask's transparency level from 0~3. The default value is 0.

OSD Menu_Privacy (cont.)

You can hide some parts of the camera's view to protect privacy and sensitive data. A total of 24 privacy masking zones are available, including 16 square zones and 8 polygon shaped zones.

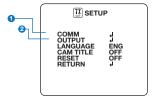


PO	POLYGON		
ZONE NUM ZONE DISP POS0-X POS1-X POS1-Y POS2-Y POS2-Y POS2-Y POS3-Y Y LEVEL CB LEVEL CR LEVEL TRANS	0 ON 80 5 88 5 88 13 10 10 10 2		

2 Polygon

- Zone num: Select the zone number between 0~7.
- Zone disp: Select to show or hide the selected zone.
- POS0-X: Move the zone's upper left angle left and right.
- POS0-Y: Move the zone's upper left angle up and down.
- POS1-X: Move the zone's upper right angle left and right.
- POS1-Y: Move the zone's upper right angle up and down.
- POS2-X: Move the zone's lower right angle left and right.
- POS2-Y: Move the zone's lower right angle up and down.
- POS3-X: Move the zone's lower left angle left and right.
- POS3-Y: Move the zone's lower left angle up and down.
- Y level: The higher the number, the brighter the color of the zone will appear.
- CR level: The higher the number, the more red tone will be added to the zone's color. The lower the number, the more green will be added to the zone's color.
- CB level: The higher the number, the more red tone will be added to the zone's color. The lower the number, the more red will be added to the zone's color.
- Trans: Set the mask's transparency level from 0~3. The default value is 2.

OSD Menu_Setup



COMM CAM ID 1 BAUDRATE 9600 CONFIRM OFF RETURN 4 OUTPUT FRAME RATE 1440p 30 FREQ 60HZ ANALOG MODE HD_T CONFIRM OFF RETURN d

COMM

Adjust the camera's ID and baudrate. The camera's default protocol is Pelco-D.

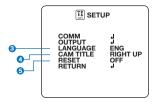
- Cam ID: Provide an ID number for the camera (0 ~ 255).
- Baudrate: Select the baudrate from the following options: 2400, 4800, 9600 (default), 57600 and 115200 bps.
- Confirm: Off, on

NOTE: Set confirm to "on" after setting the camera's ID and baudrate. Be sure to press "Save&Exit" button on the EXIT Menu.

Output

-	Framerate:	Set the camera's display frame rate and resolution. Select from: 5MP/1944p_20 (HD-A/HD-T only), 4MP/1440_30P, 2.1MP/1080p_30, 720p_30.
-	FREQ:	When the camera's image appears flickering, you can change its frequency to adjust the image. Select from 60HZ and 50HZ.
- ,	Analog mode:	Set the camera's video signal output: HD-A: HD-Analog (supports up to 5MP @ 20fps) HD-T: HD-TVI (supports up to 5MP @ 20fps) HD-C: HD-CVI (supports up to 4MP @ 30fps)
- (Confirm:	CVBS (supports up to 960H @ 30fps)
NO	TE:	Off, on
*	confirm to "on" after setting the camera's output values.	

Be sure to press "Save&Exit" button on the EXIT Menu.



8 Language

Select from the following: English (default), Chinese, Chinese (S), Japanese and Korean.

CAM title

Add a name to the camera. Set the title by using the joystick right up / left down.

6 Reset

Reset the camera to its default settings. Change to on, then press and hold the selection button on the camera's joystick for five (5) seconds.

OSD Menu_Exit



Save and exit

Exit the OSD menu after saving the recent changes.

2 Exit

Exit the OSD menu without saving any changes.

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 power supply and make sure the camera has the proper voltage and current. Check UTP/COAX switch inside the camera's housing and confirm the switch's position matches the signal connection type.

FOR OUT-OF-FOCUS VIDEO

Check the Front case cover and the lens for dirt or fingerprints. Use a soft cloth and gently clean. The use of a field test monitor is recommended.

WHEN CHANGING VIDEO SIGNAL

To use your Star-Light Plus[™] 5MP cameras at a lower resolution, you must use a VMAX[®] A1 Plus[™] DVR to access the camera's menu due to the cameras being set to 5MP as the default. A DVR that does not support 5MP resolution may recognize the camera, but will not deliver a picture.

Specifications

VIDEO		
Image sensor		1/2.8" CMOS sensor
Active pixels		2608(H) x 1960(V)
Scanning system		Progressive scan
Frequency		60Hz / 50Hz
Signal technology		Max 5MP Universal
Synchro	nization	Internal
Resolution		2592x1944 (1944p(12.5/20fps)
		(CVI Max 1440p)/1440p30(25)fps/
		1080p30(25)fps/720p30(25)fps)
N 41 1 1 1 1 1 1	F1.4 (30IRE): 0.08 lux (color)	
Minimum scene illumination		F1.4 (30IRE): 0 lux (B&W)
Video output		BNC/UTP
		(Universal: HD-A/HD-TVI/HD-CVI/CVBS
LENS		
Focal length and lens type		2.7~13.5mm, vari-focal p-iris lens with motorized zoom and auto-focus
IR distance		70ft
OPERAT	IONAL	
Alarm output		1 alarm output
Audio	Sensitivity	-38dB ± 2dB
	Frequency response	50Hz ~ 10kHz
Shutter speed		1/30 - 1/30,000
Backlight		OFF/HME/BLC/WDR

Specifications

OPERATIONAL (CON	OPERATIONAL (CONT.)				
Star-Light™		OFF, X2 - X32			
Wide Dynamic Range (WDR)		LOW / MIDDLE / HIGH			
Digital Noise Reductio	n	OFF / LOW / MIDDLE / HIGH			
White balance		AUTO / AUTOext / PRESET / MANUAL			
Day and night		AUTO / COLOR / BW			
Auto gain control		0 ~ 10			
Motion detection		ON/OFF (4 zones)			
Privacy zones		ON/OFF (box 16 zones / polygon 8 zones)			
Sharpness		0 ~ 10			
Gamma		0.45 ~ 0.75			
Remote control		RS485 / Coaxial (UTC)			
ENVIRONMENTAL					
Operating Temperature Operating Humidity		-4°F ~ 122°F (-20°C ~ 50°C)			
		no more than 90% (non-condensing)			
IP rating		-			
Other Certifications		FCC, CE, ROHS			
ELECTRICAL					
Power requirements		DC12V / AC24V dual voltage			
D	DC12V	4.62W, 385mA, LED on: 7.13W, 595mA			
Power consumption	AC24V	3.96W, 280mA, LED on: 6.5W, 410mA			
MECHANICAL					
Housing material and dimensions		Plastic, 4.24 x 3.9 in (107.8 x 99.1mm)			
Weight		0.529 lbs			

Limits and Exclusions

There are no express warranties except as listed. The warranter 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 Warranter, in its sole discretion, are not covered. Costs of such service calls are the responsibility of the purchaser.

Warranty Information

Digital Watchdog (referred to as "the Warranter") 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 Warranter will repair or replace the unit with a new or refurbished product at its option at no charge.

PARTS: In addition, the Warranter 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 9:00AM 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 Warranter 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.



Complete Surveillance Solutions

East Coast Headquarters Office: 5436 W Crenshaw St, Tampa, FL 33634 West Coast Headquarters Office: 16220 Bloomfield Ave., Cerritos, CA 90703 PH: 866-446-35951 FAX: 813-888-9262 www.Digital-Watchdog.com Technical Support: USA & Canada +1(904) 999-1309 International 1+ (813) 888-9555 French Canadian 1+ (514) 360-1309 Support Hours: Monday-Friday 9:00am to 8:00pm EST