

WIREFATH

SURVEILLANCE



WPS-550-DOM-A-WH
WPS-550-DOM-A-BL

DOME CAMERA

INSTALLATION MANUAL

*Review manual thoroughly before installation.
Retain for future reference.*



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SAFETY INSTRUCTIONS

This information is provided to ensure your safety and to prevent physical or financial loss. Please read this document carefully before installing and operating the camera.

1. Handle with care.

Use caution when handling to avoid damage to sensitive internal components.

2. Do not install camera under extreme temperatures.

This camera only operates under temperature conditions between 14°F ~ 140°F.

3. Do not mount the camera directly facing bright light sources.

Exposing the camera to strong light over long periods of time will damage the camera's sensor.

4. Do not supply voltage other than 12~30V DC or 24V AC.

This camera regulates power within this range. Higher voltages will damage the camera's electronic components.

5. Do not install camera in environments with extreme humidity.

Installing camera in environments with extreme humidity may cause moisture to condense on the surface of the lens or dome cover, which can affect picture quality.

CE FC RoHS ISO 9001



FEATURES

- **1/3" Sony Super-HAD II CCD**

The Sony Super HAD II CCD is ideal for low lux illumination, resulting in a clear and crisp image.

- **Varifocal Auto-Iris Lens**

This camera features a varifocal lens with a focal length of 3.7-12 mm. The auto-iris function intuitively manages the amount of light passing through the lens for consistent image brightness.

- **DWDR (Digital Wide Dynamic Range)**

DWDR is ideal for high contrast environments, improving the contrast between very dark and very bright areas in a scene and producing a more balanced image.

- **2D Digital Noise Reduction**

Digital noise reduction produces clear images in low light conditions. Not only does it help to reduce image noise, but it also minimizes objects from becoming blurred when in motion, producing extremely clear picture quality even under low-light conditions.

- **RS-485 Connection and OSD**

This camera features an OSD (on-screen display) for initial setup and settings adjustment. Remote control is possible using a compatible DVR or PTZ controller connected to the camera's RS485 wire leads.

- **3-Axis Gimbal**

A 3-axis gimbal provides a wide range of camera positioning angles through mechanical adjustment.

- **Video Test Port**

Adjust angle, zoom, and focus at the camera for fast and easy installation.



PACKAGE CONTENTS

- (1) WPS-550-DOM-A
- (1) AC/DC plug
- (1) OSD Joystick/BNC Test Adapter
- (3) Screws
- (3) Wall fasteners
- (1) 3mm Allen Key
- (1) Foam gasket
- (1) Installation Manual
- (1) Spare Silica Pack in Vacuum sealed bag

NOTE 1: A POWER SUPPLY IS NOT INCLUDED WITH THIS CAMERA.

The PS-12DC-1A or the WPS-PS multiple output power supplies are recommended.

NOTE 2 : *A Silica Gel package is mounted inside the dome housing. This package should remain inside the housing after installation.*

OPTIONAL ACCESSORIES

Wirepath Surveillance offers a wide range of accessories that provide power to the cameras, allow for various mounting options, and make connection to the head end quick and easy.

MOUNTS

- **WPS-MNT-EXT-DOM Dome Camera Extension Mount**
Use to extend the camera away from the ceiling, and to hide wires for locations where wires cannot be placed into the ceiling.
- **WPS-MNT-FLUSH-DOM Dome Camera Flush Mount**
Use to mount the camera ceiling for flush clean appearance.
- **WPS-MNT-L-DOM-WH Dome Camera L Mount**
Use when the dome is to be mounted away from the wall, and to hide wires for locations where wires cannot be placed into the wall.
- **WPS-MNT-ARM-DOM-WH Dome Camera Arm Mount**
Use when the dome is to be mounted away from the wall, and to hide wires for locations where wires cannot be placed into the wall.



POWER SUPPLIES

Local Power Supplies

- **PS-12DC-1A**
12 Volt 1 Amp Power Supply for Cameras & IR Systems

Remote Power Supplies

Use these remote power supplies to power all the cameras in the system from a remote location.

- **WPS-PS9-12VDC-10A**
9 Output Power Supply - 12V DC, 10A - PTC Fuses
- **WPS-PS9-24VAC-12A**
9 Output Power Supply - 24V AC, 12A - PTC Fuses
- **WPS-PS18-12VDC-18A**
18 Output Power Supply - 12V DC, 18A - PTC Fuses



WIRING ACCESSORIES

In addition to mounts and power supplies, Wirepath offers a full line of accessories to easily send power, audio, and video over 2 conductors of Cat5 wiring back to the head end.

Visit www.SnapAV.com for a complete listing of accessories.

- **WPS-BAL-V-PIGTAIL**
Mini Passive Video Balun with Pigtail and Screw Terminals
- **WPS-BAL-V-MINI**
Mini Passive Video Balun with Pigtail and Screw Terminals
- **WPS-BAL-V-COMBO**
Mini Passive Video Balun with Screw Terminals Combo Pack Contains: 1 WPS-BAL-V-PIGTAIL and 1 WPS-BAL-V-MINI
- **WPS-BAL-VP**
Passive Video and Power Balun with RJ45
- **WPS-BAL-VPA**
Passive Video, Power, Audio Balun with RJ45
- **WPS-BAL-VPD**
Passive Video, Power, PTZ Balun with RJ45.
- **WPS-ACC-PWR-F & WPS-ACC-PWR-M**
DC Power Plug with Screw Terminals Available in Male and Female version 10packs.
- **WPS-ACC-PWR-1X2**
DC Power Splitter Cable - 1 Female to 2 Male Connectors
- **WPS-ACC-PWR-1X4**
DC Power Splitter Cable - 1 Female to 4 Male Connectors
- **WPS-ACC-MIC**
Mini Microphone 12V DC Amplified
- **WPS-ACC-GND-ISO**
Ground Loop Isolator Male to Female BNCs



INSTALLATION

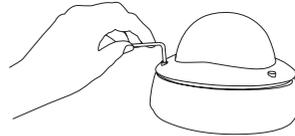
1. Prepare Camera for Mounting

Prior to mounting to the Camera, we recommend that the position and angles be preset in order to speed installation. These settings can be fine-tuned once the Camera is mounted.

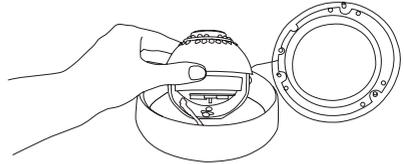
Important Note: To avoid damaging the dome surface during installation, keep the dome surface away from walls and other objects. Do not remove the protective coating from the dome until after the camera is mounted and the dome installed.

Microfiber or similar cloths can be abrasive, only use a dry eyeglasses cloth when cleaning the lens to avoid damage that can blur the camera's image.

- A. Open the camera by using the provided 3mm Allen key to remove the three screws on the dome cover.



- B. Pre-adjust the camera's 3-axis angle so the lens points in the desired direction. The lens angle should not exceed 50° off the center axis.

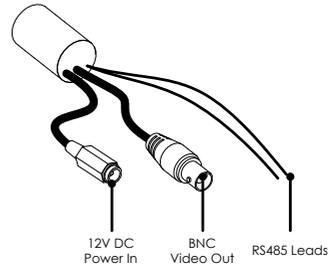


1. Connect The Camera to the System

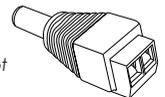
Recommended Cabling

Video RG59 or RG6
Power 18/2 or Cat5e/6

- A. Connect the BNC video output to the video in of a DVR or monitor.
- B. Connect the DC Power In to a power supply using the included WPS-ACC-PWR DC power adapter. The power supply can be located at the head end of system using a WPS-PS multiple output power supply and prewiring a power wire.



Important Note! Be sure to use the correct power supply and power wire for the length of run to the camera to ensure reliable operation. Too small a power supply or wire will cause too much voltage drop, which will cause the camera to operate incorrectly or not power up at all.



- C. The RS485 leads to a WPS-CCTV-TESTER, DVR, or PTZ controller to view, and control the OSD menu.

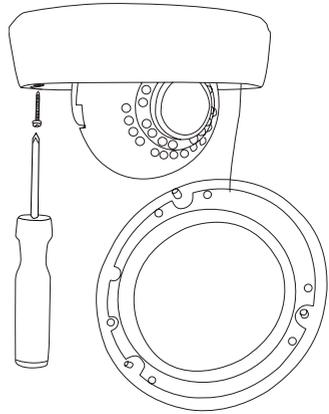


2. Mount the Camera

Important Note: To avoid damaging the dome surface during installation, keep the dome surface away from walls and other objects. Do not remove the protective coating from the dome until after the camera is mounted and the dome installed.

A. Mounting directly to a wall or eve:

- A.1- Use the provided foam gasket as a template to pre-mark mounting hole locations.
- A.2 - Predrill holes in the marked locations.
- A.3 - Connect the wires from the wall to the Cameras Pigtail and insert them into wall.
- A.4 - Position the Camera base over the marked holes from step 3-A-1.



- A.5 - Secure the Camera with the provided screws

B. Mounting to a Single gang Junction Box

If using one of the optional Wirepath Mounts (see Optional Accessories). Follow the instructions in the manual that is supplied with the mount and then proceed to step 4.

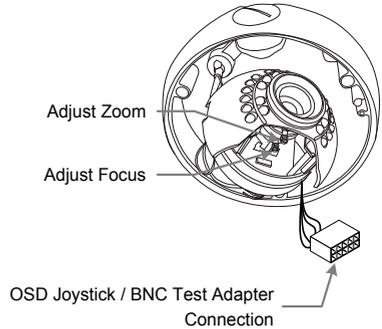


3. Fine-Tuning Camera Adjustments

The camera is supplied with a OSD Joystick / BNC Test Adapter that allows for viewing the output of the camera on a monitor or the WPS-CCTV-TESTER (not included). Use this connection to adjust the camera directly from the installed location.

- A. Connect the OSD Joystick / BNC Test Adapter Connection to a monitor or WPS-CCTV-TESTER video in.
- B. Connect a **12V DC** Power Supply to the Secondary Power connection on the OSD Joystick / BNC Test Adapter if no other power connection is active.

Warning!! The Test Port adapter power connection for this camera only uses a 12 V DC power supply. Using a 24 V AC or other voltage power supply with the Test Port Adapter will result in damage to the camera, and possibly the power supply.



- C. Adjust the camera's 3-axis angle so the lens points in the desired direction. The lens angle should not exceed 50° off the center axis.
- D. Loosen, but do not remove the zoom and focus set screws on the lens.
- E. Rotate the lens until you achieve the desired setting.
- F. Once the Zoom and Focus are adjusted, disconnect the WPS-CCTV-TESTER or Monitor, and power supply from the Local Test Connections.
- G. Configure the camera using the OSD as defined in the Set-Up Section.



SET-UP

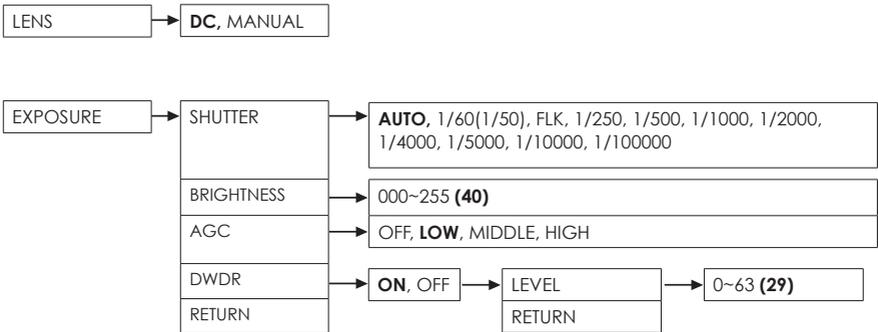
Operating the OSD Menu

- To view the OSD, the OSD Joystick / BNC Test Adapter must be connected to a display monitor or WPS-CCTV-TESTER (not included).
- The button found on the pigtail provides five separate actions: UP, DOWN, EXIT, ENTER and MENU.
- Press the button to enter into the OSD MENU page.
- Press UP, DOWN, EXIT (Left) or ENTER (Right) to select items on the menu and begin configuration.

OSD Menu Structure

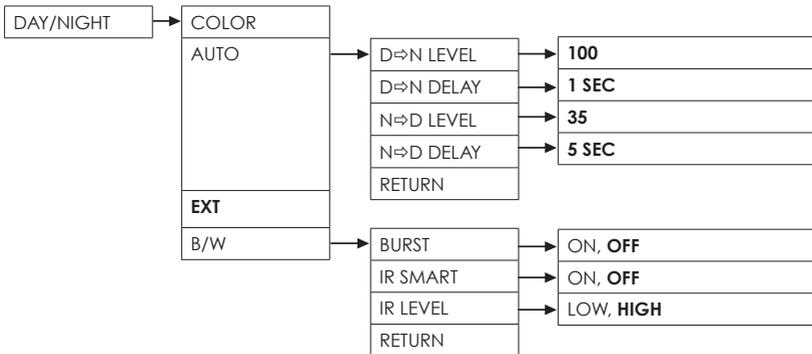
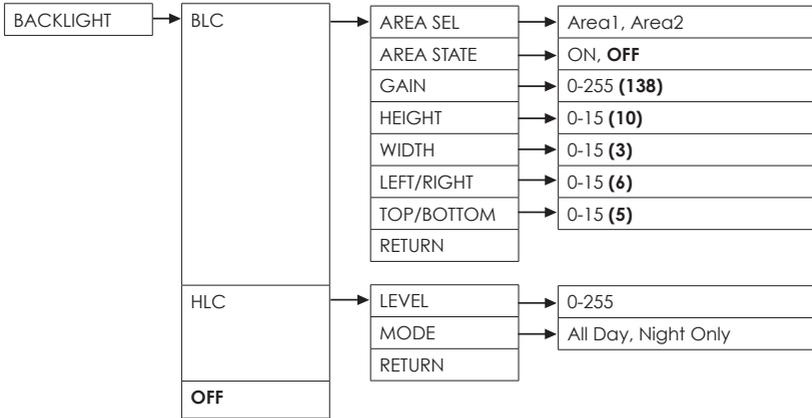
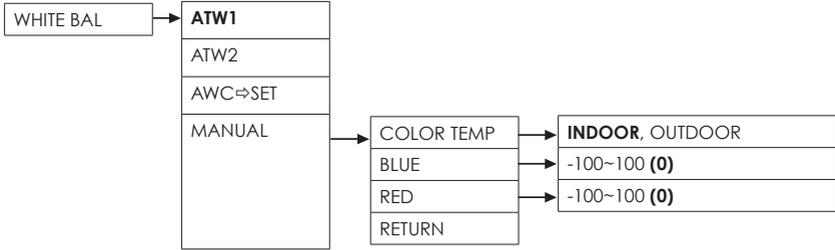
Settings have been preconfigured for optimal performance in most applications. If adjusting the settings produces a poor picture, factory reset the camera to restore the original settings (see p.21)

Bold indicates factory preset





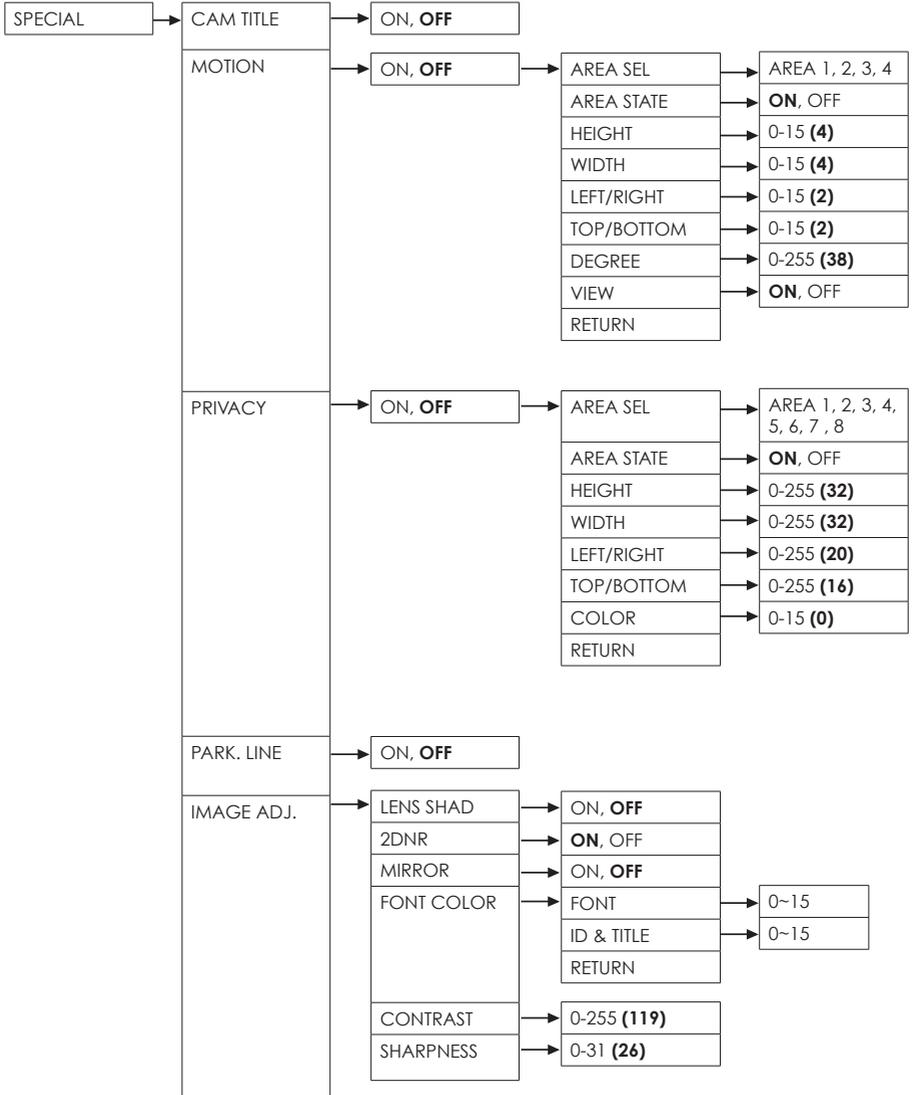
OSD Menu Structure cont. (bold indicates factory preset)



DPC	→	See Page 16 for instructions
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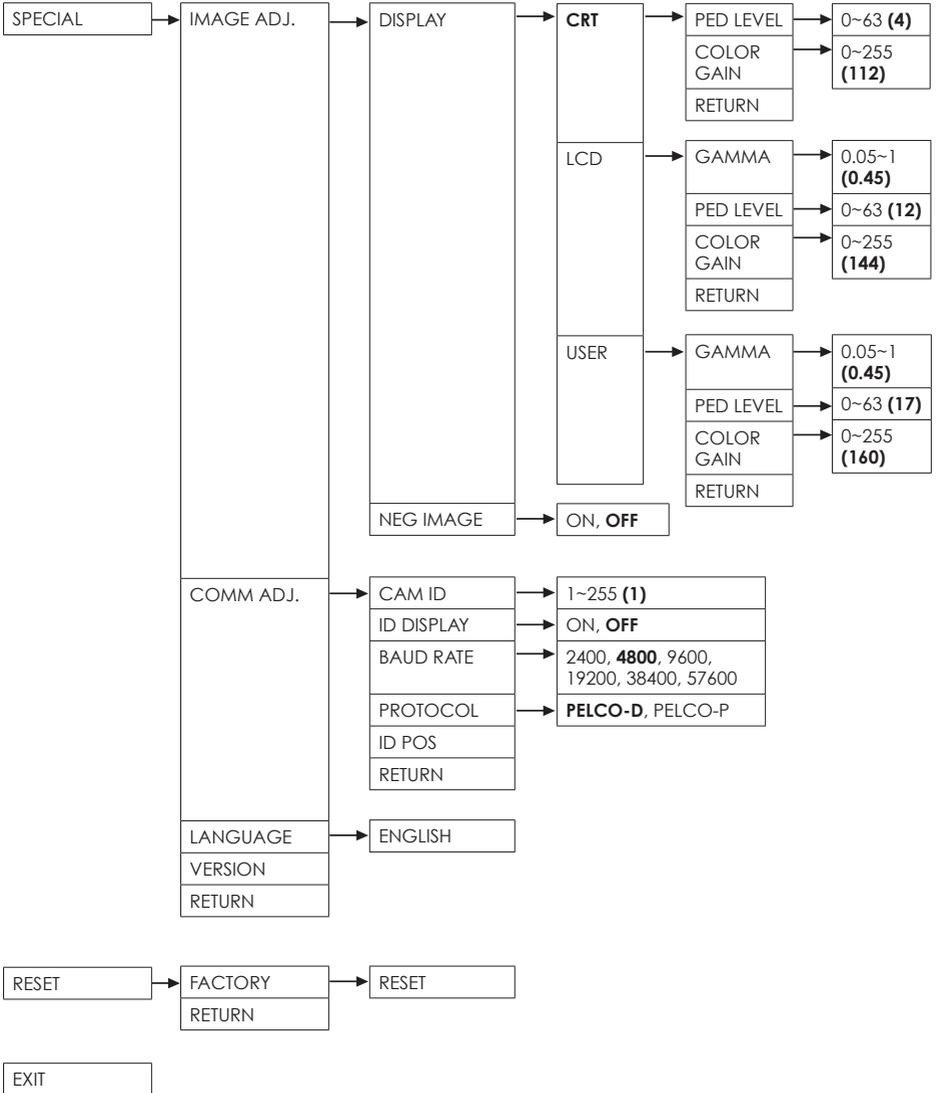


OSD Menu Structure cont. (bold indicates factory preset)





OSD Menu Structure cont. (bold indicates factory preset)





OSD MENU SETTINGS

The camera menu allows for the adjustment of settings to obtain optimal image clarity and color realism.

Note : If there is a “↵” symbol after the option, enter into the subdirectory to adjust more settings.

SETUP	
LENS	MANUAL
EXPOSURE	↵
WHITE BAL.	ATW1
BACKLIGHT	OFF
DAY&NIGHT	AUTO ↵
DPC	↵
SPECIAL	↵
RESET	↵
EXIT	↵

LENS

- Select DC (Auto-IRIS), or MANUAL mode.
- In DC mode, the camera adjusts the aperture of the lens automatically based on the lighting conditions of the environment. DC mode is the recommended setting, especially for outdoor locations and environments with varying lighting conditions.
- In MANUAL mode, the aperture is set fully open. This setting is only recommended for an environment with consistent lighting conditions.

EXPOSURE

SHUTTER Setup

Shutter setup allows for control of the electronic shutter speed. Select a shutter speed to match the lighting condition of the environment and the goal of the camera location.

- Choose from AUTO, 1/60(1/50), FLK, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/5000, 1/10000, 1/100000.
- For environments with unstable lighting conditions, the AUTO setting is recommended.
- For darker environments with fixed lighting conditions, select a slower shutter speed.
- For brighter environments with fixed lighting conditions, or scenarios in which fast-moving objects must be captured, select a faster shutter speed, such as 1/1000 seconds.

EXPOSURE	
SHUTTER	AUTO
BRIGHTNESS	----- ----- 50
AGC	---
DWDR	OFF
RETURN	RET ↵



- FLK controls the flickering effect on the screen resulting from different video refresh rates, e.g. PAL (50 Hz, 60 Hz) and NTSC (50 Hz, 60 Hz). In such cases, set the shutter to FLK to accommodate the different refresh rates.

BRIGHTNESS SETUP

Adjust the image brightness by selecting a brightness level from 1 to 255. The higher the setting, the brighter the image.

AGC (Auto Gain Control) Setup

AGC mode automatically amplifies the video signal during low light conditions.

- Adjust the AGC by selecting OFF, LOW, MIDDLE, or HIGH. Please note that signal noise is slightly higher when AGC is enabled.

DWDR(Digital Wide Dynamic Range) SETUP

DWDR improves the contrast between very dark and very bright areas in a scene and producing a more balanced image. Adjust the level from 1 to 63 based on the environment.

- Choose OFF to deactivate the DWDR function.

WHITE BALANCE

White Balance is the process of balancing the color of an image so that the picture is as accurate as possible. White balance adjusts the image color according to the lighting conditions of the scene. Select one of following white balance modes:

- **ATW1:** Auto Tracking White Balance, color temperature is set to 2000° K.
- **ATW2:** Auto Tracking White Balance, color temperature is set to 2500° K.
- **AWC⇒SET:** Set the white balance to the scene.
- **MANUAL:** Manually set the white based by adjusting Red and Blue color settings.

SETUP	
LENS	MANUAL
EXPOSURE	↵
WHITE BAL.	ATW1
BACKLIGHT	OFF
DAY&NIGHT	AUTO ↵
DPC	↵
SPECIAL	↵
RESET	↵
EXIT	↵



AWC⇒SET Setting

This function is ideal for an environment with the predominance of a single color. For example, when used in a casino and the camera is pointed to a green table, the color would be inaccurate and the overall tone of the picture would be too red. This mode compensates the white balance and offers a more accurate color.

- To set the white balance for the environment, select AWC⇒SET and point the camera towards the scene. Press and hold the MENU button for 3 seconds. The camera will automatically set the white balance value based on the scene.

SETUP	
LENS	MANUAL
EXPOSURE	↵
WHITE BAL.	AWC⇒SET
BACKLIGHT	OFF
DAY&NIGHT	AUTO ↵
DPC	↵
SPECIAL	↵
RESET	↵
EXIT	↵

Manual Setting

- Select the color temperature INDOOR or OUTDOOR based on the environment and adjust the value of BLUE and RED to a user-preferred white balance image.

WB MANUAL	
COLOR TEMP	WHITE BAL
BLUE	----
RED	----
RETURN	RET ↵

BACKLIGHT

BLC (Back light compensation) Setting

This function corrects the exposure of subjects or objects in front of a bright light source. Choose ON to activate the BLC function or enter into subdirectory for more settings.

- AREA SEL:** Select AREA1 or AREA2 to adjust values for the corresponding area.
- AREA STATE:** Set to OFF to deactivate the BLC function. Set to ON to activate the BLC function.
- GAIN:** adjust the level of BLC from 0~255
- Customize the size of BLC area by adjusting **HEIGHT, WIDTH, LEFT/RIGHT, TOP/BOTTOM** values.

SETUP	
LENS	MANUAL
EXPOSURE	↵
WHITE BAL.	AWC⇒SET
BACKLIGHT	OFF
DAY&NIGHT	AUTO ↵
DPC	↵
SPECIAL	↵
RESET	↵
EXIT	↵

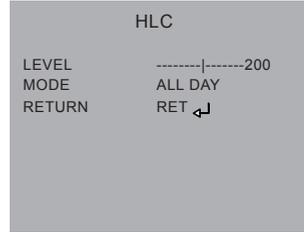
BLC	
AREA SEL.	AREA1
AREA STATE	ON
GAIN	--- -----106
HEIGHT	----- ---010
WIDTH	--- -----003
LEFT/RIGHT	----- ---006
TOP/BOTTOM	----- ---005
RETURN	RET ↵



HLC (High Light Compensation) Setting

The HLC function is used to cut off exceptionally bright light, such as vehicle headlights. Sensitivity can be adjusted based on the scene.

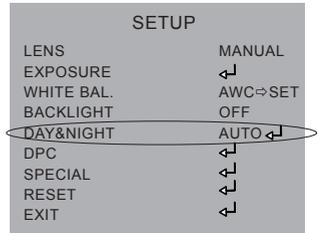
- **LEVEL:** Adjust the HLC LEVEL from 0 to 255. The larger the value, the more sensitive the camera will be to bright lights.
- **MODE:** HLC can be set to operate ALL DAY or only when the camera is in Black and White (B/W) mode (NIGHT ONLY).



DAY & NIGHT

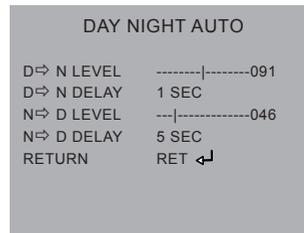
The camera allows for different configurations for Day and Night surveillance. Set DAY&NIGHT value to COLOR, EXT, AUTO, or B/W based on the installation application.

- **AUTO:** The camera uses the lens to determine color or B/W. When in AUTO mode, the camera automatically switches to B/W when lighting levels are low, and back to color when they increase.
- **COLOR:** The camera remains in color all of the time.
- **B/W:** The camera remains in black and white (B/W) all of the time.
- **EXT:** This mode uses the external IR sensor in the camera to switch to color or B/W. This is the recommended setting.



AUTO Setting

When setting the DAY/NIGHT mode to AUTO, the camera uses the lens to detect the Lux rating of the picture and switches to color or B/W automatically.





- **D ⇒ N LEVEL:** Set the level that the camera switches from color mode to B/W mode. The larger the value, the quicker the camera will switch to B/W mode.
- **D ⇒ N DELAY:** Set the delay time before the camera switches from color mode to B/W mode. The delay time can be set from 0 to 30 seconds.
- **N ⇒ D LEVEL:** Set the level that the camera switches from B/W mode to color mode. The larger the value, the longer it takes for the camera to switches to color mode.
- **N ⇒ D DELAY:** Set the delay time before the camera switches from B/W mode to color mode. The delay time can be set from 0 to 30 seconds.

B/W Setting

- **BURST:**
 - ON: The B/W image is actually a grey image and contains the color signal.
 - OFF: This is a true B/W image containing no color signal.
- **IR SMART:** When an image is too close to the camera, IR Smart prevents over-exposure by adjusting the output intensity of the IR LEDs
- **IR LEVEL:** The IR output level can be adjusted by selecting HIGH or LOW.

DAY NIGHT B/W	
BURST	OFF
IR SMART	OFF
IR LEVEL	HIGH
RETURN	RET ↵

DPC

DPC (Dead Pixel Compensation) automatically removes defective pixels and “fills in” the image. Use the UP arrow function to exit this menu without performing DPC.

SPECIAL

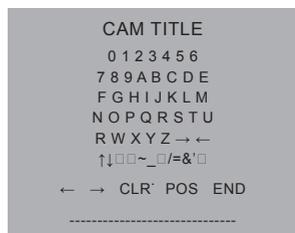
CAM TITLE Setting

The CAM TITLE provides the ability to set a camera name and have it appear on the screen.

SPECIAL	
CAM TITLE	ON ↵
MOTION	OFF ↵
PRIVACY	OFF ↵
PARK LINE	OFF ↵
IMAGE ADJ	↵
COMM ADJ	↵
LANGUAGE	ENGLISH
VERSIONS	10 09 09
RETURN	RET ↵

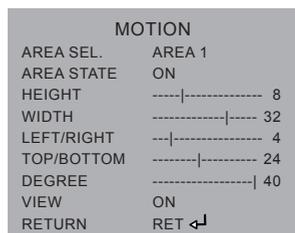


- To display the camera name on the screen, set the CAM TITLE to ON.
- Select a camera name by selecting one letter/number at a time using the menu at the bottom of the screen. Consider assigning a Camera Name that highlights the location of the camera such as Lobby, Main Hall, Entrance 1, etc.
- Press CLR to clear all letters, press POS to choose the position of CAM NAME on the screen, and press END to exit the menu.



MOTION Setting

Motion Detection allows for up to 4 zones of motion detection. When an object in one of the zones moves, the camera will highlight motion in magenta rectangles. This allows for monitoring motion more efficiently. Set MOTION DET to ON to enter into the Motion subdirectory for settings.



- Select zones 1~4 under "**AREA SEL**" to adjust the settings of the area (zone) for motion to be detected.
- **AREA STATE:** Set to ON to display the detection zone on the screen, set to OFF to hide the detection zone on the screen.
- Customize the size and the position of each detection zone by adjusting **HEIGHT**, **WIDTH**, **LEFT/RIGHT**, **TOP/BOTTOM** values.
- **DEGREE:** Increase motion detection sensitivity by increasing this setting.
- **VIEW:** When set to ON, the screen will highlight motion of the moving object with magenta rectangles.



PRIVACY Setting

Privacy Mask configuration allows the masking of up to 8 “surveillance-free” zones of the picture. For example, this may be used for a camera that has a neighbor's window in part of the scene. Set PRIVACY MASK to ON to enter into the subdirectory.

PRIVACY	
AREA SEL.	AREA 1
AREA STATE	ON
HEIGHT	---- -----32
WIDTH	----- ----- 32
LEFT/RIGHT	-- -----20
TOP/BOTTOM	----- ----- 16
COLOR	----- ----- 7
RETURN	RET ↵

- Select zones 1~8 under **AREA SEL** to adjust the settings of the area to be masked.
- **AREA STATE:** Set to ON to show the privacy zone mask on the screen. Set to OFF to hide the privacy zone mask.
- Customize the size and the position of privacy zone by adjusting **HEIGHT, WIDTH, LEFT/RIGHT, TOP/BOTTOM** values.
- **COLOR:** Options for mask color include 16 different colors for each privacy zone. Change the color by selecting a value from 0 to 15.

PARK LINE Setting

The PARK LINE function may be useful if the camera is used in a mobile application. The parking line can be aligned with objects in the field of view.

- **LT:** Adjust the top left area on screen, from 0 to 195 steps.
- **LB:** Adjust the bottom left area on screen, from 0 to 194 steps.
- **RT:** Adjust the top right area on screen, from 0 to 194 steps.
- **RB:** Adjust the bottom right area on screen, from 0 to 194 steps.
- **F:** Adjust the front area on screen, from 0 to 68 steps.
- **N:** Adjust the near area on screen, from 0 to 68 steps.
- **T:** Adjust the parking line thickness, from 0 to 15 steps.

PARK LINE	
LT	075
LB	027
RT	113
RB	170
F	013
N	069
T	009
RET	↵



IMAGE ADJ. SETTING

- **LENS SHAD:** This feature brightens the corners of the image when using a wide angle view.
- **2DNR:** Digital noise reduction produces clear images in low light conditions. Not only does it help to reduce image noise, but it also minimizes the object from becoming blurred when in motion. Select ON to activate the DNR function, OFF to deactivate the function.
- **MIRROR:** Allows the image to be mirror reversed. Typically used in vehicles or mobile applications. Select ON to activate the MIRROR function, OFF to deactivate the function.
- **FONT:** There are 16 options for the OSD Font Color and CAM TITLE color. Change colors by selecting a value from 0 to 15 steps.
- **CONTRAST:** When increasing the contrast value, dark colors become darker and light colors become lighter. The value ranges from 0 to 255.
- **SHARPNESS:** When increasing the contrast value, dark colors become darker and light colors become lighter. The value ranges from 0 to 31.
- **DISPLAY:** Depending on the type of monitor used to view the camera, select the CRT, LCD, or USER. USER adjustments include:

- **PED LEVEL:** The higher the value, the brighter the image.
- **COLOR GAIN:** The higher the value, the darker the image.
- **GAMMA:** Standard GAMMIA value is 0.55. Adjust the value between 0.05 ~1.00.

IMAGE ADJ.	
LENS SHAD	OFF
2DNR	ON
MIRROR	OFF
FONT COLOR	↵
CONTRAST	----- ----- 119
SHARPNESS	----- ----- 24
DISPLAY	CRT ↵
NEG.IMAGE	OFF
RETURN	RET ↵

FONT COLOR	
FONT	----- -----008
ID&TITLE	--- -----004
RETURN	RET ↵

USER ADJ	
GAMMA	0.40
PED LEVEL	--- -----017
COLOR GAIN	----- ----176
RETURN	END ↵

DISPLAY



- **NEG. IMAGE:** The Negative Image View offers a wider dynamic range and preserves most detail as it displays data exactly as the CCD sees it. Select ON for the Negative Image View mode to reproduce images with the most light intensity and color information.

COMM ADJ

The communication adjustments can be used to remotely control the camera's OSD (On Screen Display) from a PTZ controller or DVR through RS-485. This is helpful for adjusting camera settings after installation without having to be next to the camera.

COMM ADJ	
CAMERA ID	001
BAUDRATE	4800
PROTOCOL	PELCO-D
DISPLAY ID	OFF
ID POS	↵
RETURN	RET ↵

CAM ID

Select a unique ID number from 0 to 225.

Warning: If multiple cameras and devices are being used in the surveillance system, confirm that no other device is using the same ID. If two or more devices share the same ID number, the PTZ controller or DVR will not be able to control or configure any of the devices.

BAUD RATE

Choose a baud rate for RS-485 communication between the camera and controller. Baud rate options include 4800, 9600, 19200, 38400, and 57600, and must be set to the same rate in all of the devices.

Warning: Confirm that all devices in the system use the same Baud Rate

PROTOCOL

Select a communication protocol of PELCO-D or PELCO-P.

Warning: Confirm that all devices in the system use the same protocol.

DISPLAY ID

- Set DISPLAY ID to ON to show the CAMERA ID on the screen. This feature is useful when needing to know the ID of a camera simply by viewing a picture.



ID POS

Select the position for the CAMERA ID on the display screen by using the left and right arrows “←”, “→” to move the ID.

LANGUAGE Setting

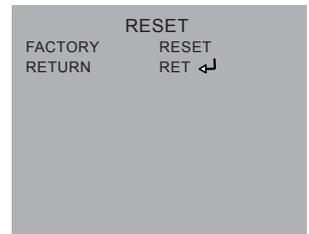
There are 2 language options: English and Chinese.

VERSION

Displays the factory firmware version.

RESET

If adjustment to the camera's settings results in poor picture quality, it is recommended to restore the camera to factory default settings. All configurations with the exception of the COMM SETTINGS can be reset back to factory default settings by selecting FACTORY RESET and pressing the MENU button. **This option does not have an "UNDO" feature, so ensure default settings are desired before selecting this function.**



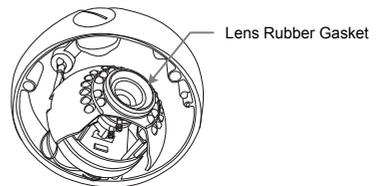
EXIT

1. Select EXIT to exit the OSD menu.

2. Attach the Dome to the Camera

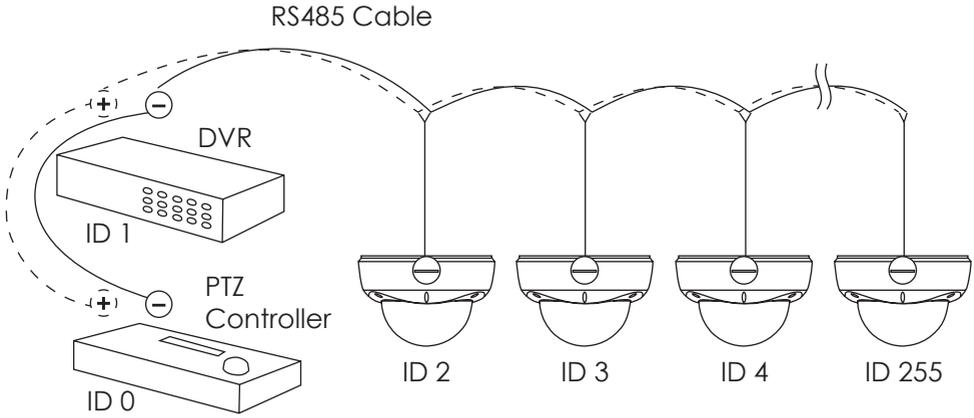
Note: The camera is equipped with Silica packs that absorb moisture in the camera to prevent condensation on the lens. DO NOT remove the Silica pack unless it is being replaced.

- A. Replace the dome cover to the dome base, and make sure the screws on the dome cover are tightened securely. Doing so seals the dome from the elements, and creates a tight fit around the rubber lens gasket to prevent the IR LEDs from reflecting into the lens.





SYSTEM DIAGRAM





TROUBLESHOOTING

If you have trouble operating the camera, first refer to the following guidelines. If the problem persists, contact Technical Support at 866.838.5052.

Blurring/ Smudge/ Reflection/ Halo

- This dome camera features a gasket that keeps the IR LEDs from reflecting off the inside of the dome and into the lens. When improperly aligned or adjusted, during the day you could see a perfect picture but at night have blurring, smudges or "halo" reflections. If this is the case it is easily resolved:
- The lens should not be adjusted beyond the recommended max angle. (See pg 26)
- During adjustment, the "friction" of the rubber lens gasket against the inside of the dome can leave marks that cause blurring/reflections. Clean the inside of the dome to remove these smudges using a dry eyeglasses cloth.

Nothing appears on the display

- Check if the power for camera and monitor is ON.
- Check if the VIDEO cable is connected to the camera BNC video output jack.
- Check if the VIDEO cable is connected to the monitor VIDEO input jack.

Image appears dim on the display

- Check the monitor contrast setting.
- Check the monitor and camera brightness setting.
- Check the camera exposure and shutter settings.
- Check the lens. If necessary, clean with a soft, clean cloth.
- Check if the camera is facing towards a bright light. If so, change the camera position.
- If a device exists between the camera and screen, confirm the signal accepted by the screen is strong enough – 75 Ohm.
- Reset the camera to factory default settings.

Image appears blurry on the display

- Check the focus of the lens.
- Check the lens. If necessary, clean with a soft, clean cloth.
- Check the camera iris and shutter settings.
- Reset the camera to factory default settings.

The camera is not working properly and the camera housing is hot

- Check if camera is connected to the correct power source.

**The color of the picture is not correct**

- Check White Balance and Color (Red / Blue) settings.
- Reset the camera to factory default settings

Screen flickers continuously

- Check the camera location to make sure it is not pointing directly towards the sun or bright light source
- Check if the flickerless control is set correctly; proper settings should reflect required refresh rates.
- Reset the camera to factory default settings

AGC settings are not available

- DAY&NIGHT Mode is set to AUTO. To enable AGC control change DAY&NIGHT to EXT, Color or B/W

RS-485 communication failure

- Check whether the RS-485 polarity is connected correctly to the RS-485 port.
- Check the Camera ID setting and make sure there is not more than one device with the same ID on the RS485 network.
- Check the Protocol and Baud Rate for all devices are set to the same configuration.
- **Warning: Conflicting settings of the protocol and Baud Rate among devices connected to the RS485 network could result in abnormal operation of the camera. Ensure that the Protocol and Baud Rate for all devices are set to the same configuration.**



OSD Menu appears randomly without prompt from user

- Check the Pigtail - Verify that the pigtail is not pinched.
- Secure RS485 Wiring - Verify that the RS485 wires are not touching or shorting on a metal box.

Condensation Appears on Camera Lens Cover

- Check the color of the beads in the Silica pack under the lens cover.
- If the blue crystals have turned pink indicating that the pack has absorbed moisture, replace the pack with the spare provided with the camera.

Camera Power Cycles Intermittently

- Check voltage at camera for proper voltage level.
- Connect camera locally with a different power supply to test.



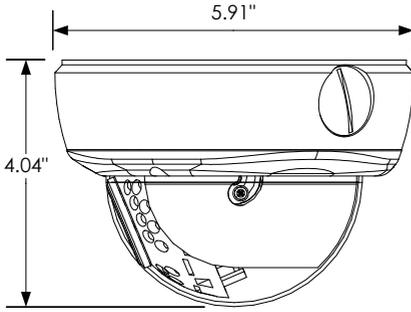
SPECIFICATIONS

Imaging	
Image Sensor	1/3" Color Sony Super HAD II
Lens	3.7 - 12mm
Estimated Horizontal Viewing Angle	78.1° (3.7mm) ~ 28.1° (12mm)
Resolution (TVLs)	600
Effective Pixels	NTSC: 768(H) x 494(V)
Gamma	0.45
S/N Ratio	52dB (AGC Off, Weight On)
Sync Mode	Internal
Scanning System	2:1 Interlace
Auto Iris	Yes
IR Range	65 ft.
Smart IR	Yes
True Day / Night	Yes
Technology	
OSD	Yes
WDR	D-WDR
DNR	2D DNR
Minimum Illumination	0.01 Lux color, 0 Lux IR on
Highlight Compensation	Yes
Auto Gain Control	Yes
Back Light Compensation	Yes
White Balance	Yes
Privacy Mask	Yes
Motion Detection	Yes
Mirror Mode	Yes
Parking Line	Yes
Housing & Power	
Weather Rating	IP66
Vandal Resistant	Yes
RS485	Yes
Operating Temperature	14°F ~ 140°F
Operating Humidity	30% - 80% RH
Power Source	Main Power: 12-30 VDC (1A) or 24 VAC (500mA) – Not Included Test Adapter: 12V DC (1A) – Not Included
Power Consumption	4.5W - 375mA
Dimensions	4.04" H x 5.91 W
Weight	2 lb. (890g)

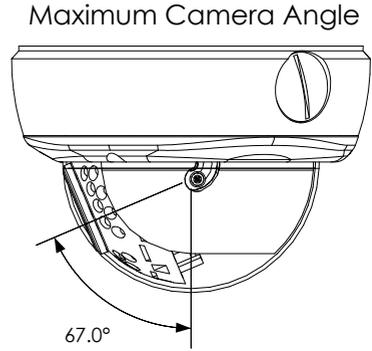
*Specifications are subject to change without notice



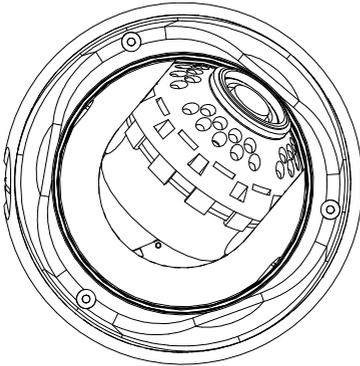
DIMENSIONS



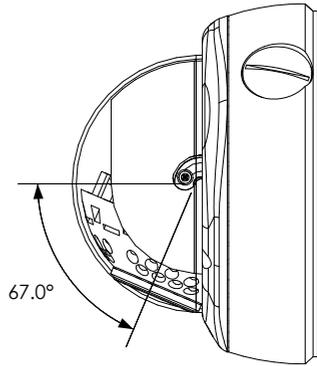
Side View



Maximum Camera Angle



Top View



67.0°



WARRANTY

5-Year Limited Warranty

This camera has a 5-Year Limited Warranty. The warranty includes parts and labor repairs on all components found to be defective in material or workmanship under normal conditions of use. This warranty shall not apply to products which have been abused, modified, disassembled or improperly installed. Products to be repaired under this warranty must be returned to Wirepath™ Surveillance or a designated service center with prior notification and an assigned return authorization number (RA).



WIREPATH
SURVEILLANCE

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