

# WIREFATH

## SURVEILLANCE



**WPS-365-DOM-A**

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# 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.**

This camera is not designed to resist heavy impact. Use caution when handling to avoid damage to sensitive internal components.

**2. Do not install the 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 12VDC.**

Higher voltages will damage the camera's electronic components.

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

Installing the 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.



## FEATURES

- **960H 1/3" Color Sony Super HAD II CCD**

The 960H 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 2.8~12mm to offer flexibility during installation. The auto-iris function intuitively manages the amount of light passing through the lens for consistent image brightness in varying lighting conditions.

- **Built-In Infrared with Smart IR**

IR LEDs provide the ability to capture images during night and low light conditions. Smart IR prevents IR over-exposure when an object is close to the camera.

- **3-Axis Gimbal**

A 3-axis gimbal design provides for a wide range of camera positioning angles through mechanical adjustment for both wall and ceiling mount applications.

- **Video Test Port**

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

## PACKAGE CONTENTS

(1) WPS-365-DOM-A

(1) DC Power Plug with Screw Terminals

(1) BNC Test Port Adapter

(4) Screws

(4) Wall Fasteners

(1) 3mm Allen Key

(1) Foam Gasket

(1) Installation Manual

(1) Spare Silica Pack in Vacuum Sealed Bag

(1) Paper Mounting Template

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

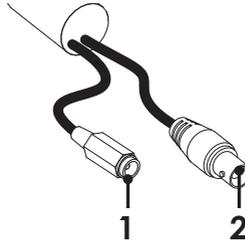
*The PS-12DC-1A or WPS-PS multiple output power supplies are recommended.*

**NOTE 2:** *A silica dessicant pack is mounted inside the dome housing. This package should remain inside the housing after installation.*



## Wiring Recommendations

Wiring should be installed, terminated, and tested for connectivity before the camera is installed. Specifications for each connection are detailed below.



### 1. Power (Required)

It is recommended to install the camera power supply near the recording location and run a remote power wire to the camera.

Use the voltage drop calculator at [www.SnapAV.com](http://www.SnapAV.com) to find the correct gauge for a given length of wire.

Pinout	Wire Size (AWG)	Power Requirements
	<b>Minimum 18 AWG</b> Calculate based on voltage & wire length	<b>12V DC ONLY</b> (Minimum 1 Amp recommended)

Included WPS-ACC-PWR-M is illustrated to demonstrate the correct polarity for power. Any power supply with the correct amperage and voltage output may be used.

**Important Note!** If voltage is incorrect or polarity is reversed, the camera will protect itself and will not power on. If you notice this, disconnect the camera from the power source immediately and verify if voltage and/or polarity is correct.

### 2. BNC Video Output (Required)

Install coaxial cable for transmitting video to a DVR or display monitor.

Recommended Cable	Connector Type
RG-59 or RG-6	75-ohm rated BNC connectors Use a BNC-RCA adapter for composite input



## Installation Instructions

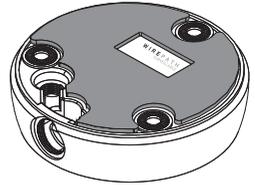
Wiring must be installed before camera installation. See previous page for connections and wiring recommendations.

### Step 1. Prepare for Installation

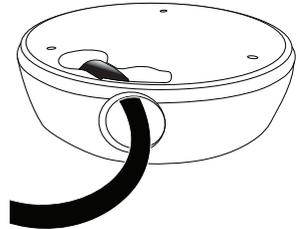
**Important! DO NOT remove the protective plastic film from the inside or outside of the camera dome until installation is complete and the camera is being sealed for the last time.**

A. Unpack the camera and locate the included foam gasket, hardware, mounting template, silica packet, and 3mm Allen wrench. If a mounting accessory is being used, unpack the accessory and become familiar with its installation and use.

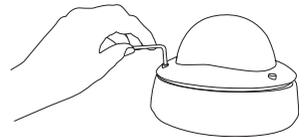
B. Apply the self-adhesive foam gasket to the base of the camera.



C. If the camera will be connected using the 3/4" conduit side entrance, remove the threaded plug and route the wiring pigtail through the opening.

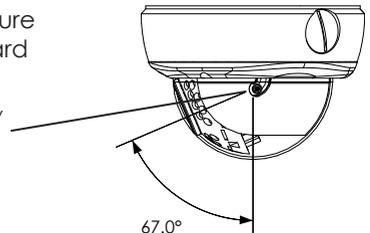


D. Use the 3mm Allen wrench to open the camera.



E. Review the lens angle-of-view limits and make sure the camera location will allow it to be aimed toward the desired field of view.

*The setscrews for the gimbal should be factory preset to allow adjustment without binding, but may be adjusted.*





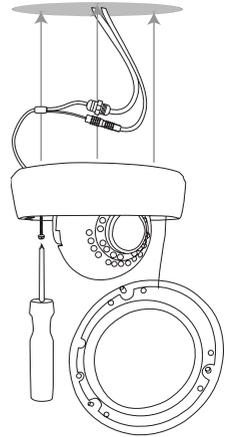
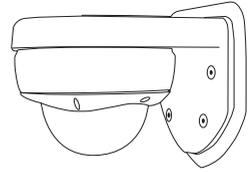
## Step 2. Mount the Camera

### Using Mounting Accessories

Refer to the accessory installation instructions to mount the accessory, make wiring connections, and mount the camera. Then, continue following these instructions below at **Step 3** to complete camera installation.

### Surface Mounting

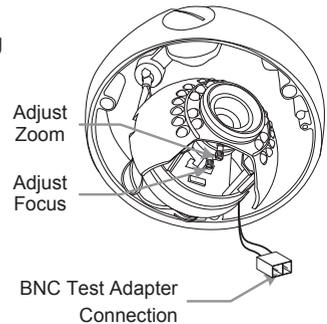
- Use the included template to mark the screw locations on the mounting surface.
- Connect the camera to the wiring and move it into position. Avoid pinching the wires between the camera and the mounting surface.
- Use 3 of the included screws to secure the camera. Insert the screws through the black gaskets over the holes and hand-tighten them evenly.



## Step 3. Final Adjustments

Now the camera can be powered on and tested. A test monitor (like the Wirepath WPS-CCTV-TESTER) is recommended for easier setup.

- Connect the test monitor to the camera using the included BNC test adapter, or at the head end using the installed coax cable.
- Adjust the zoom and focus using the manual adjustments and position the gimbal to see the correct view.



## Step 4. Close the Camera

A silica desiccant packet is factory-installed in the camera to trap humidity when the housing is sealed, and a spare packet is included for installation.

- Before closing the camera, remove the spare silica packet from its sealed foil package (taking care not to rip the inner plastic packet) and place it inside the camera, out of the lens' field of view. **Do not remove the existing silica gel packet strapped inside the camera.**
- Close the camera dome and use the 3mm Allen wrench to tighten the screws evenly. **Remove the dome outer protective film last.**



## 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.

### **Nothing appears on the display:**

- Check if the power for the camera and the 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 brightness setting.
- Check the lens. If necessary, clean with a clean, dry eyeglass cloth.
- Check if the camera is facing toward 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.

### **Image appears blurry on the display:**

- Check inside and outside of the lens for scratches and dirt. Clean the lens using a clean, dry eyeglass cloth.
- Verify that the lens is no more than 67° off center axis.
- Check the focus of the lens.
- Check the lens. If necessary, clean the inside of the dome to remove these smudges using a dry, clean eyeglasses cloth.
- Confirm the rubber gasket is sealed against the inside of the dome housing.

### **The camera is not working properly and the camera housing is hot:**

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

### **Condensation appears on camera lens cover:**

- Change the silica pack inside the camera housing.

### **Camera power cycles intermittently:**

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

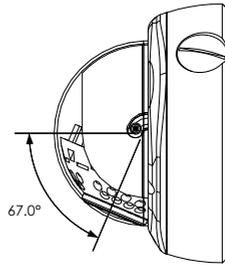
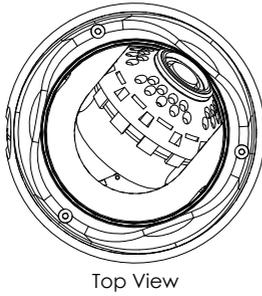
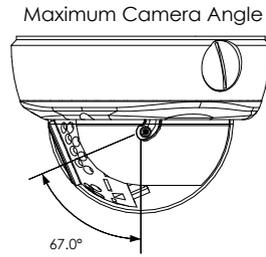
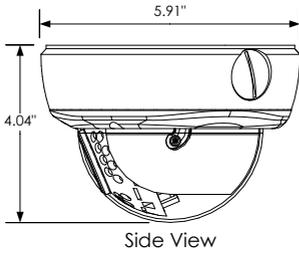


## SPECIFICATIONS

<b>Imaging</b>	
<b>Image Sensor</b>	960H 1/3" Color Sony Super HAD II
<b>Lens</b>	2.8 ~ 12mm Varifocal Auto Iris Lens
<b>Estimated Horizontal Viewing Angle</b>	92 ° (W) ~ 30 ° (T)
<b>Resolution (TVLs)</b>	650 TV Lines
<b>Effective Pixels</b>	NTSC: 976(H)x494(V)
<b>Gamma</b>	0.45
<b>S/N Ratio</b>	>50dB
<b>Sync. Mode</b>	Internal Sync
<b>Scanning System</b>	2:1 Interlace
<b>IR Range</b>	65ft
<b>Auto IRIS</b>	Yes
<b>Smart IR</b>	Yes
<b>Technology</b>	
<b>Minimum Illumination</b>	0.01 Lux color, 0 Lux IR on
<b>2D DNR</b>	Yes
<b>Auto Gain Control</b>	Yes
<b>Back Light Compensation</b>	Yes
<b>White Balance</b>	Yes
<b>Housing &amp; Power</b>	
<b>Weather Rating</b>	IP66
<b>Vandal Resistant</b>	Yes
<b>Side Conduit Threading</b>	3/4" NTP
<b>Operating Temperature</b>	14° F ~ 140° F
<b>Operating Humidity</b>	30 ~ 80% RH
<b>Power Source</b>	12V DC (1A minimum) – Not included
<b>Power Consumption</b>	3.6W 300mA
<b>Dimensions</b>	Dimensions on next page
<b>Weight</b>	2.09 lb



# DIMENSIONS





## 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 that 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).

## CONTACTING TECHNICAL SUPPORT

**Phone:** (866) 838-5052    (704) 909-5229

**Email:** [support@snapav.com](mailto:support@snapav.com)

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