



*PRO-SERIES*

# Dome Security Camera with IR night vision



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INSTRUCTION MANUAL

# Before you begin

## Limited Warranty Terms & Conditions

Swann Communications warrants this product against defects in workmanship and material for a period of one (1) year from its original purchase date. You must present your receipt as proof of date of purchase for warranty validation. Any unit which proves defective during the stated period will be repaired without charge for parts or labour or replaced at the sole discretion of Swann. The end user is responsible for all freight charges incurred to send the product to Swann's repair centres. The end user is responsible for all shipping costs incurred when shipping from and to any country other than the country of origin.

The warranty does not cover any incidental, accidental or consequential damages arising from the use of or the inability to use this product. Any costs associated with the fitting or removal of this product by a tradesman or other person or any other costs associated with its use are the responsibility of the end user. This warranty applies to the original purchaser of the product only and is not transferable to any third party. Unauthorized end user or third party modifications to any component or evidence of misuse or abuse of the device will render all warranties void.

By law some countries do not allow limitations on certain exclusions in this warranty. Where applicable by local laws, regulations and legal rights will take precedence.

**For Australia:** Our goods come with guarantees which cannot be excluded under Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to major failure.

## FCC Verification

NOTE: This equipment has been tested and found to comply with the limits for Class B 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 used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

These devices comply with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- These devices may not cause harmful interference, and
- These devices must accept any interference received, including interference that may cause undesired operation.

## Important Note:

All jurisdictions have specific laws and regulations relating to the use of cameras. Before using any camera for any purpose, it is the buyer's responsibility to be aware of all applicable laws and regulations that prohibit or limit the use of cameras and to comply with the applicable laws and regulations.

## WARNING

**Modifications not approved by the party responsible for compliance could void user's authority to operate the equipment.**

## IMPORTANT SAFETY INSTRUCTIONS

- Make sure product is fixed correctly and stable if fastened in place.
- Do not operate if wires and terminals are exposed.

## About the Camera

Congratulations on your purchase of this **Swann PRO Camera**! The PRO-CAM is very sensitive to light and therefore can make use of even the smallest amount of light to provide an image of what it sees. In low light, this comes through as a black and white image.

In complete or near-total darkness, the camera uses built-in infrared LEDs to illuminate the area in front of it. This light is invisible to the human eye, although you might notice a faint red glow coming from the front of the camera - this is normal.

In day or well lit environments, the IR Cut Filter feature of the camera activates to filter out wavelengths of light the camera does not need in order to provide a clear color image.

## Choosing a Location for the Camera

To get optimal results from your camera, where you install is important. You should consider the distance between the camera and its subject to ensure you obtain a good view of the areas in focus. Also think about the appropriate mounting places (e.g., under the eaves of a roof is a good choice) where it won't be either an easy target for vandals or affected by constant light reflections of moving vehicles (which can result in falsely triggered motion detection). There are a number of factors you will need to consider when choosing where to mount your camera - not least of which is what you will want to see.

### General Guidelines

- Try to place the camera in an position that a potential security threat will find it difficult to avoid. A strategy which is often effective is to monitor entrances and exits - after all, a security threat has to get in somewhere.
- Install the camera in shady spot. Even though the camera is weather and water-resistant, prolonged exposure to adverse weather conditions (direct sunlight or excessive moisture) may eventually damage the internal components of the camera and adversely affect its performance.
- Try to aim the camera at an area which is evenly lit, as objects or people in shadows near brightly lit objects are very hard to see.
- Avoid having bright light sources in your image. This includes the obvious (such as the sun or an artificial light source) but also things such as reflections. Cars are notorious for reflected light sources, as are buildings with a lot of windows, mirrors and so forth.
- The camera's night vision will give well-exposed images if the area is dark. However, if there's a bright light source in the camera's view (a streetlight, car headlights or similar) then it might not engage night vision mode.

# Mounting the Camera

The camera can be mounted onto a flat, vertical surface using screws. The surface must have sufficient strength to hold the camera. Materials such as hardwood, brick or masonry are good options, and we've included all the gear you'll need to mount it there (except the tools - sorry, you'll still need your own drill). You can mount the camera onto a metal surface, but you'll need to supply your own mounting hardware.

## ***To mount the camera:***

- Position the camera in the location you want to mount it, and mark the screw holes on the surface to position the screws. Then, using appropriate screws for the surface you're fixing the camera to, screw the camera into place.
- If you're mounting to a wooden surface, then screw the camera directly to the surface.
- If you're mounting to a masonry surface (bricks, concrete or similar) then you'll need to use the included wall plugs.

## **Aiming the Camera**

- Loosen the screws on the left and right hand sides of the camera.
- The dome cover (3) can be rotated left or right.
- The camera can be aimed in almost any direction from wherever you choose to mount it. After you've finished adjusting the viewing angle of the camera, remember to tighten the screws back securely to lock the camera's position in place



## **Positioning the Cables**

- When running your cable, try to avoid bending it at sharp angles.
- Don't put your cable near live electrical wiring. AC electricity generates radio "noise" which can interfere with the signal from your camera.

## **Weather & Tampering**

The camera's casing is resistant to water, different weather conditions and tampering. It would take an overwhelming event of this kind to damage the housing of the camera (severe weather such as hurricanes or someone intentionally damaging the lens would be enough). However, the cable and connector are vulnerable and require protection.

# Connection Guide

## A CONNECTING TO A DVR

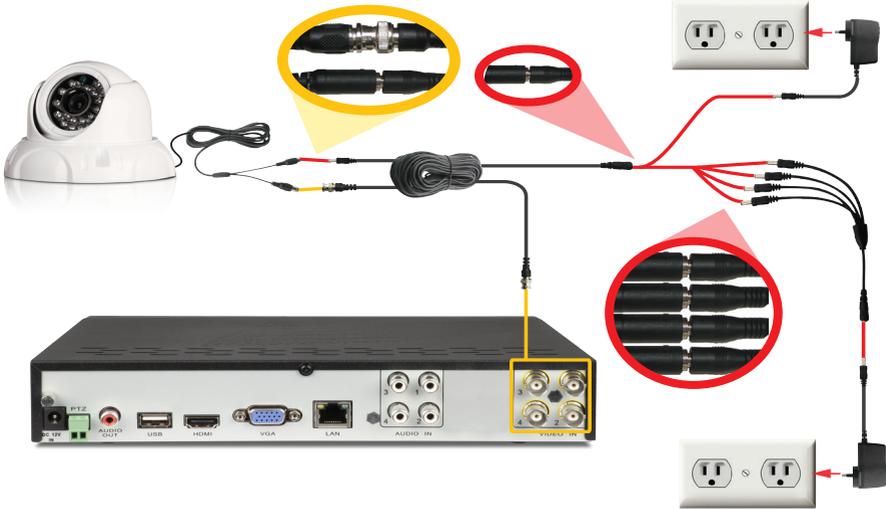
Connect the camera's DC and BNC socket cables to the extension cable's DC and BNC plugs. Then connect the BNC extension cable to an open channel on the back of the DVR.

### For a single camera:

Connect the extension cable's DC socket to the DC plug on the power adapter. Then connect the BNC extension cable to an open channel on the back of the power adapter.

### For 2 & 4 camera packs:

Connect the extension cable's DC socket to the multiple sockets on the power splitter. Then, plug the single end of the power splitter to the DC plug on the power adapter.



# Troubleshooting

**Q:** On my *Swann* DVR, 'Video Loss' appears where the image from my camera should be.

**A:** Check the extension cable (power and video) is securely connected to the camera. Check the video output from the camera is securely connected to a video input channel on the DVR. Check the power from the camera is securely connected to a power supply.

**Q:** When I view an image from the camera at night I only see a bright spot and no image.

**A:** A reflection can be caused in night vision mode if the camera is looking through a window. At night, the infrared light the camera uses to see in the dark can 'bounce back' off a reflective surface (such as glass, water, spider webs, some ceramics and so on) and effectively blind the camera. If you want to see outside, mount the camera outside - we made it weatherproof for a reason!

**Q:** The BNC extension cable will not connect to my TV.

**A:** Many TV's and monitors do not have a BNC connector but do have an RCA connector. Connect a BNC to RCA adapter to the end of the extension cable and then plug into the RCA video input on your TV or monitor.



# Helpdesk / Technical Support Details

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## Swann Technical Support

All Countries E-mail: [tech@swann.com](mailto:tech@swann.com)

### Telephone Helpdesk

<b>USA Toll Free</b>	1-800-627-2799
<b>USA Exchange &amp; Repairs</b>	1-800-627-2799 (Option 1) (M-F, 9am-5pm US PT)
<b>AUSTRALIA</b>	1300 138 324
<b>NEW ZEALAND Toll Free</b>	0800 479 266
<b>UK</b>	0203 027 0979