



# Swann™

## *PRO-SERIES*



# PRO-655

M655CAMxxxx I | E

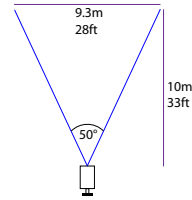
# About the Camera

Congratulations on your purchase of this PRO-655 from *Swann*! You've chosen well: we think this is one of the finest CCTV video cameras available. The PRO-655 is great for monitoring a specific area and is able to provide a high level of detail, even at night - it can see up to 20m/65ft in the dark.

## Placement Guide

The PRO-655 has a **6mm, 50° lens** built-in which allows it to focus its attention onto one specific area. What does this mean for you when placing it?

- The camera will focus on the one particular area in front of the lens, but won't see much happening to the sides of it. You'll need to aim the camera specifically at what you want to see.
- Objects and people will look like they are slightly closer to the camera than they really are. You'll be able to monitor a space which is as long (or longer) than it is wide.



The PRO-655 is great for monitoring long, narrow spaces such as hallways or corridors. It's also great for monitoring a specific space, such as a doorway, smaller room or staircase.

It's best mounted high-up in a corner looking down into the space being monitored, so that it can look over intervening obstacles. Also, the higher the camera is mounted, the harder it'll be for an intruder to access the camera or interfere with it.

## Installing the Camera

The camera mounts 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:*

- Using the holes on the camera stand as a guide, mark the locations on your wall to drill. Make sure the wall is thick and strong enough that you won't drill through it.
- If the wall is masonry, brickwork or similar, use the provided wall plugs. If the wall is made of wood, then the camera can be screwed directly onto the wall.
- Ensure that the cable is protected from the weather. The camera is weatherproof, but the cable (particularly the power and video-out plugs) is not.
- Once the camera has been mounted, ensure that it is securely fixed in place. The camera is vandal resistant, but that won't help if an intruder can remove the whole camera!

## Troubleshooting

**Problem:** At night, all I see is white.

**Solution:** The camera is most likely 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!

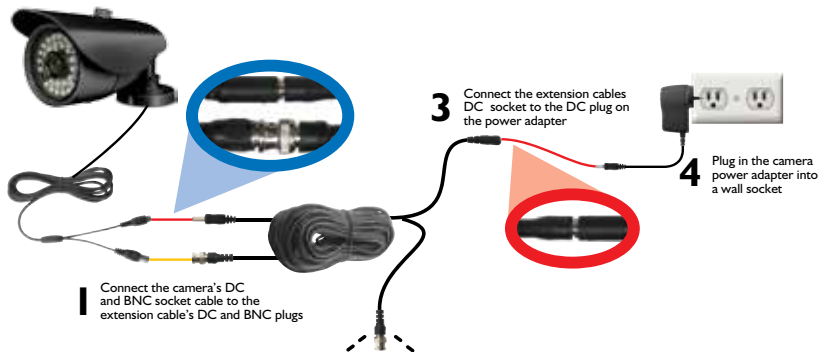
**Problem:** I see only a blank screen where my image should be.

**Solution:** Check the wiring to the camera, and ensure the camera is being supplied power from the included power adapter. Try using a different video lead, or connecting the camera to a different television or monitor. Be sure there are no devices interrupting your signal, such as a DVR or VCR that isn't outputting the signal correctly.

**Problem:** I can't see anything at night.

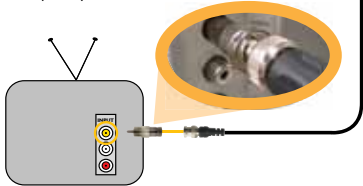
**Solution:** The maximum range of the night vision is just that, the maximum range. If there's nothing in this range, you won't see anything. Also, some dark objects (like the proverbial black cat) may not reflect enough light to be seen except as a silhouette if the background is brighter. Some objects which can easily be seen in visible light don't reflect much infrared light.

# Connection Guide and Specifications



## 2A. Connecting Directly to TV

- 2 Connect a BNC to RCA adapter and connect to video input on your TV or VCR



## 2B. Connecting to Your Existing DVR

- 2 Connect the BNC extension cable to an open channel on the back of the DVR



### Tips & Tricks

- Try to aim the camera at an area which is evenly lit. Objects or people in shadows near brightly lit objects are very hard to see.
- It's better to have the camera in the shade looking into the light than vice-versa.
- When running your cable, try to avoid bending it at sharp angles. This can interrupt the signal flow and degrade the quality of your images. If the cable must be bent, try to make the bend as gradual as possible.
- Don't put your cable near live electrical wiring. AC electricity generates radio "noise" which can interfere with the signal from your camera.

### Technical Specifications

#### Video

Image Sensor	1/3" CCD
Video Quality	540 TV Lines
Effective Pixels	NTSC: 568 x 494
	PAL: 752 x 582
Min. Illumination	0 Lux (IR on)
White Balance	Automatic
Electronic Shutter	NTSC: 1/60 ~ 1/100 000
	PAL: 1/50 ~ 1/100 000
Gain Control	Automatic
Backlight Comp.	Yes
Wide Dynamic Range	Yes
Lens	6mm
Viewing Angle	50°

#### Night Vision

Range	Up to 20m (65ft)
IR Cut Filter	No
Number of IR LEDs	24
Infrared Wavelength	850nm
IR LED Life (Average)	10, 000 hours

#### General

Operating Power	DC 12V @ 300mA
Operating Temp.	-20°C ~ 45°C (-4°F ~ 113°F)
Casing	Aluminium
Dimensions	165mm x 115mm x 67mm (6.5" x 4.5" x 3.15")
Weight	465g / 17.5oz (approx)

# Helpdesk / Technical Support Details

## Swann Technical Support

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

Telephone Helpdesk

**USA** toll free

1-800-627-2799

(Su, 2pm-10pm US PT)

(M-Th, 6am-10pm US PT)

(F 6am-2pm US PT)

**USA Exchange & Repairs**

1-800-627-2799 (Option 1)

(M-F, 9am-5pm US PT)

**AUSTRALIA** toll free

1300 138 324

(M 9am-5pm AUS ET)

(Tu-F 1am-5pm AUS ET)

(Sa 1am-9am AUS ET)

**NEW ZEALAND** toll free

0800 479 266

**UK**

0203 027 0979

See <http://www.worldtimeserver.com> for information on time zones and the current time in Melbourne, Australia compared to your local time.

## Warranty Information

Swann Communications USA Inc.  
12636 Clark Street  
Santa Fe Springs CA 90670  
USA

Swann Communications  
Unit 13, 331 Ingles Street,  
Port Melbourne Vic 3207

Swann Communications LTD.  
Stag Gates House  
63/64 The Avenue  
SO171XS  
United Kingdom

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.



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### FCC Verification

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

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