

## Contents

- IR Night Vision Camera\*
- Mounting Kit / Allen Key\*
- 60ft BNC / Power Extension Cable\*
- Power Adapter\*\*
- BNC-to-RCA Adapter\*\*\*

\*Model CVC6945PK4 is a 4-pack that includes four of the listed items.

\*\* A "4-in-1" Power Adapter that provides power to four cameras or individual power adapters may be provided, depending on product configuration.

\*\*\* Not included in multi-camera packs.

**WARNING** - A REGULATED UL / CSA APPROVED power supply is REQUIRED for use with this camera. Use of a non-regulated, non-conforming power supply can damage this product and voids the warranty.

## Features

- Advanced image sensor produces high resolution video at 480 TV Lines of resolution
- Picture automatically switches to Black & White delivering better clarity in low light conditions
- Clean & crisp night vision up to 50ft/15m away in total darkness or up to 75ft/22m in ambient lighting\*
- 30 Covert IR LED's don't glow red making it difficult to detect the camera at night
- 4.6mm medium angle lens with a 57° diagonal of view for improved object recognition
- Vandal resistant design with durable aluminum housing and cable pass-through bracket
- IP66 weatherproof rated—ideal for outdoor and indoor applications\*\*
- Flexible mount offers wall and ceiling installation options

### Disclaimers:

\* Stated IR illumination range is based on ideal conditions in total darkness and in typical outdoor night time ambient lighting. Actual range and image clarity depends on installation location, viewing area and light reflection / absorption level of object.

\*\* Not intended for submersion in water. Installation in a sheltered location recommended.

## Warning/Caution

- Read this guide carefully and keep it for future reference
- Follow all instructions for safe use of the product and handle with care
- Use the camera within given temperature, humidity and voltage levels noted in Camera Specifications
- Do not disassemble the camera
- Do not point the camera directly towards the sun or a source of intense light
- Use only the supplied regulated power supply. Use of a non-regulated, non-conforming power supply can damage this product and voids the warranty
- Periodic cleaning may be required. Use a damp cloth only. Do not use harsh cleaners or aerosol cleaners
- The supplied extension cable is rated for surface mounting only
- Cables for in-wall / floor-to-floor installations are sold separately

## Installation Tips

- Point the camera where there is the least amount of obstructions (i.e. tree branches)
- Install the camera in a location that is difficult for vandals to reach
- Secure cabling so that it is not exposed or easily cut
- Camera rated for outdoor use. Installation in a sheltered location recommended

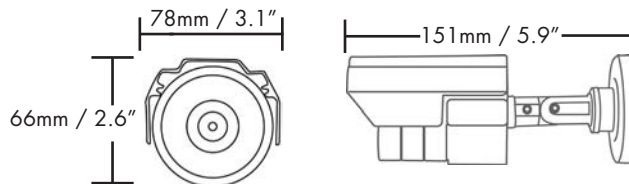
## Camera Specifications

Image Sensor	1/4" Color Image Sensor
Video Format	NTSC
Effective Pixels	H: 668 V: 512
Resolution	480 TV Lines
Scan System	2:1 Interlace
Sync System	Internal
S / N Ratio	48dB (AGC Off)
Iris	AES
AES Shutter Speed	1/60 ~ 1/100,000 Sec.
Min. Illumination	0.1 Lux without IR LED 0 Lux with IR LED
Video Output	Composite 1.0Vpp @ 75ohm
Lens / Lens Type	4.6mm F2.0 / Fixed
FOV (Diagonal)	57°
Termination	BNC Type
IR LED Qty. / Type	30 pieces / 940nm
Night Vision Range*	50ft (15m) / 75ft (22m)
Power Requirement	12V DC $\pm$ 10%
Power Consumption	Max. 230mA (w / IR)
Operating Temp. Range	14° ~ 122°F / -10° ~ 50°C
Operating Humidity Range	< 95% RH
Indoor/Outdoor**	Both (IP66)
Weight (including stand)	0.7lbs / 0.3kg

\* Stated IR illumination range is based on ideal conditions in total darkness and in typical outdoor night time ambient lighting. Actual range and image clarity depends on installation location, viewing area and light reflection / absorption level of object.

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## Dimensions



FOR SUPPORT AND INFORMATION,  
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Product Information

Specification Sheets

User Manuals

Software Upgrades

Quick Start Guides

Firmware Upgrades

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WEATHERPROOF  
NIGHT VISION SECURITY CAMERA

Quick Start Guide  
English Version 1.0



VANTAGE

CVC6945 SERIES

## Installing the Camera

**ATTENTION** - Test all connections and ensure the camera is working correctly prior to permanent installation by temporarily connecting the camera(s) and cable(s) to the viewing / recording solution.

### Before installing the camera:

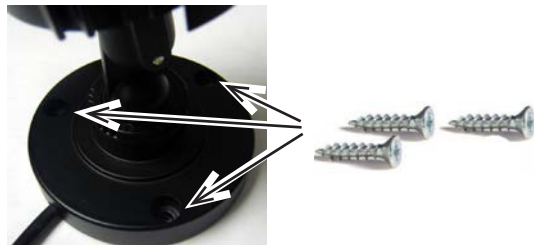
- Decide whether to run the cables through the wall / ceiling (drilling required) or along the wall / ceiling.
- If you run the cables along the wall / ceiling, you must run the cable through the cable notch on the base. This will keep the camera base flush to the wall / ceiling when mounted.



Cable Notch

### To install the camera:

- Set the camera in the desired mounting position and mark holes for the screws.
- Drill the holes, then feed the cable through the mounting surface or cable notch and mount the camera stand to the surface using the provided screws. Make sure all three screws are fastened tightly at the connection points.



- Set the position and angle of the camera using the provided Allen key.

1



- Turn the ring to tighten / loosen the stand connection. Adjust the camera's horizontal position.

2



- Loosen the screw and adjust the camera's vertical position.

**NOTE** - This camera features night vision IR LED's that are completely invisible to the human eye when activated. The IR LED's will not glow red when night vision is on.

## Connecting the Camera

### To Camera:



- Connect the BNC and power connectors to the camera.

### To DVR:



- Connect the BNC connector to the video input of the DVR.
- Connect the power connectors to the 4-in-1 power adapter. **OR** Connect each camera to an individual power adapter. See Power Adapter Types for details.

## Power Adapter Types

A "4-in-1" Power Adapter that provides power to four cameras or individual power adapters may be provided, depending on product configuration.



Individual Power Adapter



4-in-1 Power Adapter

## Connecting the Camera to a TV

DVR / CCTV  
Monitor  
Video IN



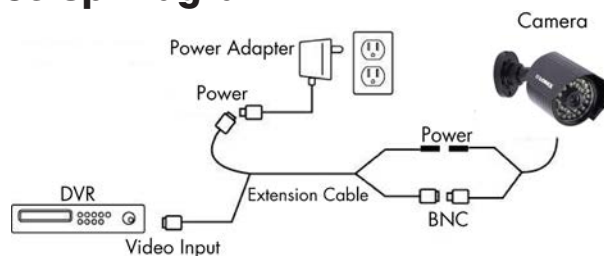
TV / VCR  
Monitor  
Video IN



BNC to RCA  
Adapter

Connect a BNC-to-RCA Adapter (not included in multi-camera packs, Lorex model # BNCB) to connect the extension cable to RCA inputs (i.e. for a TV connection).

## Setup Diagram



## Cable Extension Options

Extend the cable run for your camera up to 300ft or more depending on the cable type used. See table below:

Option	Cable Type	Max Cable Run Distance	Max # of Extensions
1	Regular BNC (supplied with camera)	180ft / 55m	3
2	'RG59' or 'Coax' or 'Coaxial BNC' (sold separately)	300ft / 92m	5
3	Lorex Universal Cable (sold separately)	300ft / 92m	3

### Notes:

- For optimal performance, consider using option 2 or 3. It is best to use the same cable type for the entire distance.
- Cable run recommendation based on typical camera power consumption (up to 500mA). For specialty cameras with higher current consumption, maximum cable run may be reduced. Consider providing power to the camera at the camera side, rather than at the end of the extension cable.
- Indicators that your cable run may be too long:
  - Video is permanently black & white (even during day time)
  - Video is distorted

## Troubleshooting

Problem	Solution
No picture / signal	<ul style="list-style-type: none"><li>Ensure your TV is on the correct input channel. Common terms of an input channel: INPUT, AV CHANNEL, LINE 1, LINE 2, AUX</li><li>If your camera is connected to a VCR / DVR, ensure it is properly connected to your TV / Monitor</li><li>Ensure connections are properly connected</li><li>Ensure the camera power supply is plugged in</li></ul>
Picture is too bright	<ul style="list-style-type: none"><li>Ensure your camera isn't pointed directly at a source of light (e.g. sun or spot light)</li><li>Slide the sunshade (bullet cameras featuring adjustable sunshades only) forward to block excess light</li><li>Move your camera to a different location</li></ul>
Picture is too dark	<ul style="list-style-type: none"><li>If using during the day, the camera may not be getting enough light. Slide the sunshade (bullet cameras featuring adjustable sunshades only) backwards to let in more light</li><li>Check the brightness and contrast settings of the device your camera connects to (TV / Monitor / DVR)</li></ul>
Night vision is not working	<ul style="list-style-type: none"><li>The night vision activates when light levels drop. The area may have too much light</li></ul>
Picture is not clear	<ul style="list-style-type: none"><li>Check the camera lens for dirt, dust, spiderwebs. Clean the lens with a soft, clean cloth</li><li>Make sure that the cable run is within the limitations specified in the section 'Cable Extension Options'</li></ul>
Bright spot in video when viewing camera at night	<ul style="list-style-type: none"><li>Night vision reflects when pointing a camera at a window. Move the camera to a different location</li></ul>
BNC connection does not connect to my TV	<ul style="list-style-type: none"><li>Use a BNC to RCA adapter at the end of the extension cable</li></ul>