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:

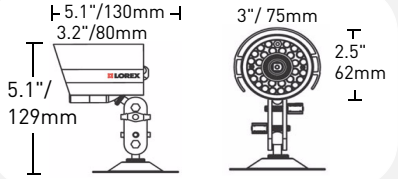
1. For optimal performance, consider using option 2 or 3. Preference for using the same cable type for the entire distance.
2. Cable run recommendation based on typical camera power consumption (up to 500mA). For specialty cameras with higher current consumption, maximum cable run may be reduced. Consider providing power to the camera at the camera side rather then at the end of the extension cable.
3. 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	• Ensure your TV is on the correct input channel. Common terms of an input channel: INPUT, AV CHANNEL, LINE1, LINE2, AUX. • If your camera is connected to a VCR/DVR, ensure it is properly connected to your TV/ Monitor. • Ensure connections are properly connected. • Ensure all the camera power supply is plugged in.
Picture is too bright	• Ensure your camera isn't pointed directly at a source of light (e.g sun or spot light). • Slide the sunshade (bullet cameras only) forward to block excess light. • Move your camera to a different location.
Picture is too dark	• If using during the day, the camera may not be getting enough light. Slide the sunshade backwards to let in more light. Check the brightness and contrast settings of the device your camera connects to (TV/Monitor/DVR).
Night Vision is not working	• The night vision activates when light levels drop. The area may have too much light.
Picture is not clear	• Check the camera lens for dirt, dust, spiderwebs. Clean the lens with a soft, clean cloth. • Make sure that the cable run is within the limitations specified in the section ' Cable Extension Options'
Bright spot in video when viewing camera at night	• Night vision reflects when pointing a camera to a window. Move the camera to a different location.
BNC connection does not connect to my TV	• Use a BNC to RCA adapter at the end of the extension cable.

Camera Specifications

Image Sensor	1/4" Advanced Color
Video Format / Pixels	NTSC: 656(H) x 492 (V)
Horizontal Resolution	480 TVL
Sync. & Scan. Systems	Internal; 2:1 Interlace
S/N Ratio	> 48dB
Iris & Shutter Speed	AES; 1/60 ~ 1/50,000 sec.
Minimum Illumination	0.6 LUX @ F1.2 (IR off) 0 LUX (IR LEDs on)
Video Output	Comp. 1.0 Vpp @ 75ohm
Lens / Lens Mount	5.0 mm F2.8/ Fixed
FOV (diagonal)	50 Degrees
Termination	Video: BNC Female Power: Barrel Female
IR / Night Vision Range	30 IR LEDs/850nm/75' (23m)
Power Requirement	12V DC ±10%
Power Consumption	220 mA or 3W max
Operating Temp.	14°F ~ 122°F (-10°C ~ 50°C)
Weight (with stand)	0.66 lb / 0.3 kg
Dimensions LxWxH (with sunshade)	5.1" x 3" x 5.1" 130 mm x 75 mm x 129 mm



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HIGH RESOLUTION INDOOR/OUTDOOR COLOR CAMERA

with Night Vision

MODEL: CVC6996 SERIES

QUICK START GUIDE

English Version 1.0

LOREX®

www.lorextechnology.com

Contents

- Indoor / Outdoor Color Camera with Night Vision
- Mounting Bracket / Stand*
- 60 ft. BNC/Power Extension Cable*
- AC Power Adapter**

* Model CVC6996PK4 is a 4-pack that includes four of the listed items.
** A "4-in-1" Power Adapter (provides power to four cameras) may be substituted for four individual power adapters, depending on product configuration.

Features

- Advanced Image Sensor (AIS) provides High Resolution image (480 TV Lines)
- Automatic Mechanical IR Cut Filter removal function ensures accurate color reproduction
- Durable Weatherproof Indoor/Outdoor camera‡
- Enhanced Night Vision Capability (up to 75ft)†
- Easily connects to any BNC DVR or observation system
- Ceiling and wall mounting bracket included

† IR illumination range of 75 ft. (23 m) under ideal conditions. Actual range and clarity may vary depending on scene/object reflection and camera application.
‡ Not intended for submersion in water. Installation in a sheltered location recommended.

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 will void the warranty.

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.
- Connect your system and cameras to a back-up power supply. This ensures the system continues to record during power outtages.

Warning / Caution Statements

1. Read this guide carefully and keep it for future reference.
2. Follow all instructions for safe use of the product.
3. Use the camera within given temperature, humidity and voltage levels noted in Camera Specifications.
4. Do not disassemble the camera.
5. Do not point the camera directly towards the sun or a source of intense light.
6. Use only the supplied regulated power supply. Use of a non-regulated, non-conforming power supply can damage this product and voids the warranty.
7. The supplied extension cable is rated for surface mounting only. Cables for in-wall / floor-to-floor installations are sold separately.

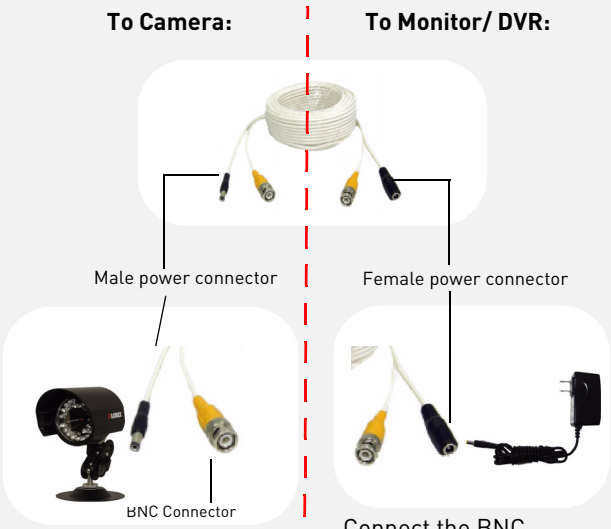
Installing The Camera

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.

To install the camera:

1. Mount the camera stand to the desired mounting surface.
2. Attach the camera to the stand at either of the two connection points at the back of the camera.

3. Connect the extension cable to the camera:



Connect the BNC and power connectors to the camera.

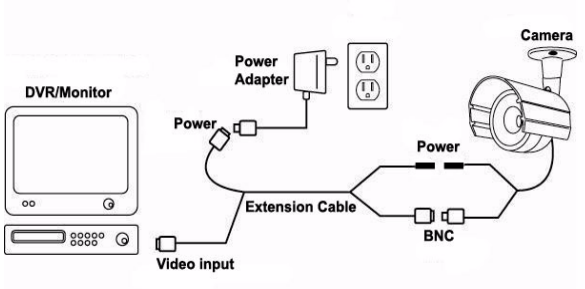
Connect the BNC connector to the video input of the monitor/DVR, and connect the included power connector to a power adapter.

4. Connect the BNC end of the Extension Cable to the DVR / Observation System.
5. Connect the A/C Power Adapter to the Extension cable (Black connector). Plug the power adapter to a wall outlet.

4-in-1 Power Adapter (optional)

Power up to four cameras with a single 4-in1 power adapter. This reduces cable clutter and eliminates the need for multiple power outlets.

Setup Diagram



ATTENTION: This camera includes an Auto Mechanical IR Cut Filter. When the camera changes between Day/ Night viewing modes, an audible clicking noise may be heard from the camera. This clicking is normal, and indicates that the camera filter is working.