

Contents

- Weatherproof HD bullet camera
- Mounting Kit
- Allen key
- 60ft UL (CM type) Rated BNC / Power Extension Cable
- Power Adapter

WARNING - A REGULATED 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

- High Performance 1080p Sony Exmor™ Image Sensor*
- Quick and easy camera view adjustment from your DVR or mobile device with 3x optical zoom lens**
- 960H analog video output for convenient set up or connecting to legacy 960H DVRs
- Night vision range up to 170ft (52m) in ambient lighting & 115ft (35m) in total darkness***
- Close up recognition in the dark with SmartIR
- High Dynamic Range ("WDR" in menu) for viewing in extremely challenging lighting scenarios
- ClearNight imaging for superior low light performance, improving recording efficiency
- Weatherproof for outdoor & indoor installation (IP66 Rated)****
- Extreme temperature performance (-22° ~ 140°F / -30° ~ 60°C)
- 34-90° remotely adjustable field of view (Horizontal)**
- Vandal resistant design with cable pass-through bracket

Disclaimers:

* 1080p cameras are compatible with 1080p HD DVR recorders. 720p cameras are compatible with 720p & 1080p HD DVR recorders. This product is also compatible with 960H analog DVRs using the analog BNC connector.

** Camera control is only compatible with Lorex HD LHV Series DVRs. To control a camera on an analog/960H DVR, use the OSD controller on the camera cable.

*** Stated IR illumination range is based on ideal conditions in typical outdoor night time ambient lighting and in total darkness. 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.

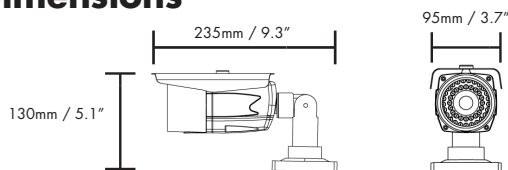
Warning/Caution

- 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 cameras within given temperature, humidity and voltage levels noted in "Camera Specifications".
- Do not disassemble the cameras.
- Do not point the cameras 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.

Installation Tips

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

Dimensions



On-Screen Display (OSD) Menu

MPX / HD Video Output

To use the OSD menu, access the PTZ menu of your DVR. See your DVR's instruction manual for more details.

Analog Video Output

Configure OSD menu options using the integrated control stick on the camera cable (see image to the right).

- **OPTIONAL:** Connect a test monitor to the camera's analog (yellow) BNC connector.
- Push the middle of the joystick to open the OSD menu.
- Move the joystick $\uparrow$ / $\downarrow$ to select a setting, then $\leftarrow$ / $\rightarrow$ to change the setting value.
- Push the middle of the joystick to confirm selection.
- Arrows beside settings indicate a submenu ($\leftarrow$ / $\rightarrow$). Select the setting and push the joystick to enter.
- Select **RETURN** and push the joystick to return to the previous menu, or **EXIT** from the main menu to exit.



NOTE: Camera control through the DVR is only compatible with Lorex HD LHV Series DVRs. To control a camera on an analog/960H DVR, use the OSD controller on the camera cable.

Language		
Video Format		
Backlight	OFF	
	WDR / HDR $\leftarrow$ (HD only)	
	BLC $\leftarrow$	
	HLC $\leftarrow$	
DNR		
Advanced	Lens $\leftarrow$	ELC $\leftarrow$
		ALC $\leftarrow$
	Exposure $\leftarrow$	Brightness
		Shutter
		Sens-Up
		AGC
	White Balance $\leftarrow$	Auto
		ATW
		Preset
		Manual $\leftarrow$
	Day&Night $\leftarrow$	Mode
		Delay
		D $\rightarrow$ N Level
		N $\rightarrow$ D Level
		Smart IR
		Smart IR Level
	Image $\leftarrow$	Sharpness
		Color Gain
		Freeze
		Flip
		D-Zoom
		Defog
	Special $\leftarrow$	Black Level $\leftarrow$
		Privacy $\leftarrow$
		DP Comp $\leftarrow$
	Reset	
Version		
Exit		

FOR SUPPORT AND INFORMATION,
VISIT WWW.LOREXTECHNOLOGY.COM

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As our products are subject to continuous improvement, Lorex reserves the right to modify product design, specifications and prices, without notice and without incurring any obligation. E&OE



HD 1080P WEATHERPROOF
MOTORIZED VARIFOCAL SECURITY CAMERA

Quick Start Guide
English Version 2.0



LBV2723 SERIES

Installing the Cameras

ATTENTION - Test each camera prior to selecting a permanent mounting location by temporarily connecting the camera(s) and cables to the DVR.

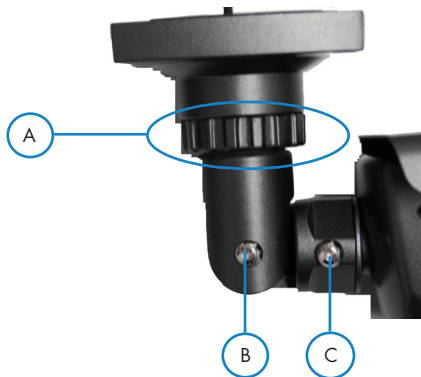
Before installing the cameras:

- 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 surface when mounted.



To install the cameras:

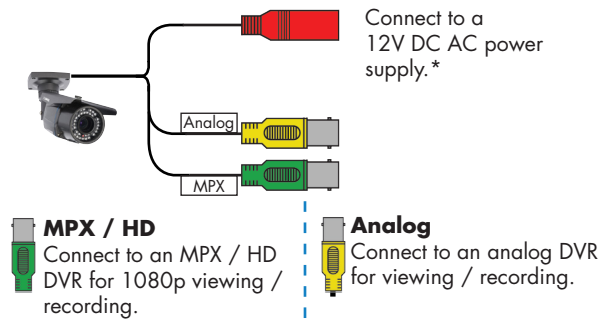
- Set the camera in the desired mounting position and mark holes for screws through the camera base.
- Drill the holes, then feed the cable through the mounting surface or cable notch.
NOTE: Insert the included drywall anchors if installing the camera in drywall.
- Mount the camera stand to the surface using the provided screws. Make sure all screws are fastened tightly.
- Set the position and angle of the camera.



- Turn the adjustment ring to tighten / loosen the stand connection. Adjust the camera's horizontal position.
- Loosen lower screw with a Phillips head screwdriver (not included). Adjust the camera's vertical position.
- Loosen the screw near the camera housing with a Phillips head screwdriver (not included). Twist the camera housing to make sure the picture is level.

*Disclaimer: The color of the camera housing may appear differently than the actual unit.

Camera Wiring

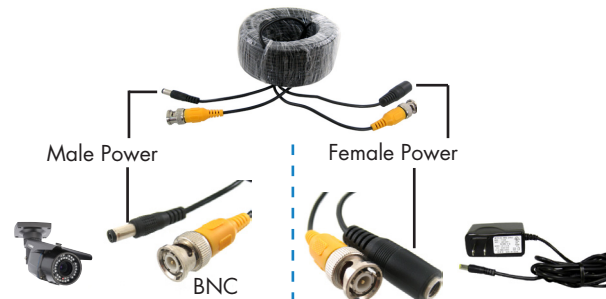


* Camera focus may be affected if the power connection is too long. It is recommended not to extend the power connection past 200ft (61m).

Connecting the Cameras

To Camera:

To DVR:



- Connect the BNC and power connectors to the camera. See "Camera Wiring" for details.

- Connect the BNC connector to the video input of a DVR.
- Connect the camera to the power adapter.

Adjusting Zoom & Focus

MPX / HD Video Output

To adjust the zoom or focus of your camera, use the Zoom and Focus controls in your DVR's PTZ menu. See your DVR's instruction manual for more details.

Analog Video Output

Hold the joystick on the camera cable ↑ / ↓ to zoom in / out. The camera will focus itself automatically.



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.

Cable Extension Options

Extend the cable run for your camera depending on the cable type used. Additional extension cables sold separately. See table below:

Option	Cable Type	Max Cable Run Distance
1	Lorex model MCB-60BNCU / MCB-60BNCU2 BNC Cable (included with camera)	60ft / 18m
2	'RG59' or 'Coax' or 'Coaxial BNC' Siamese (Video and Power)	300ft / 92m
3	'RG59' or 'Coax' or 'Coaxial BNC' (Video Only) ²	800ft / 242m

Notes:

- The extension cable must be a single stretch of cable between the DVR and camera. You cannot connect multiple extension cables to each other.
- For cable runs above 300ft / 92m (option 3), you must connect the power adapter directly to the camera, 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 unclear, soft, or distorted
- For more information on extension cables, visit www.lorextechnology.com.

Troubleshooting

Problem	Solution
No picture / signal	1080p cameras are compatible with 1080p HD DVR recorders. 720p cameras are compatible with 720p & 1080p HD DVR recorders. This product is also compatible with 960H analog DVRs using the analog BNC connector. - Ensure your TV is on the correct input channel. Common terms of an input channel: INPUT, AV CHANNEL, LINE1, LINE2, AUX. - Ensure your DVR is properly connected to your TV / Monitor. - Ensure connections are properly connected. - Ensure 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). - Move your camera to a different location.
Picture is too dark	Check the brightness and contrast settings of the DVR or monitor.
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 at a window. Move the camera to a different location.
HDR / WDR is not working	Connect the camera to a Lorex MPX / HD DVR using the MPX connector. HDR / WDR is not supported on the analog output.
Picture is choppy	Turn off HDR / WDR mode. The camera's frame rate drops to when HDR / WDR is turned on.