

Contents

- IR Night Vision Camera*
- Mounting Kit*
- 60ft BNC / Power Extension Cable*
- Power Adapter**

* Per camera in multi-camera packs.

** An "8-in-1" Power Adapter that provides power to eight cameras or individual power adapters may be provided, depending on product configuration.

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

- True HD 1080p Image Sensor*
- Infrared cut filter ensures accurate color representation
- Night vision range up to 130ft (40m) in ambient lighting & 90ft (28m) in total darkness**
- Close up recognition in the dark with SmartIR
- Anti-glare feature ensures clear images under strong lighting conditions
- ClearNight imaging for superior low light performance, improving recording efficiency
- Split glass design minimizes IR reflection
- Weatherproof for outdoor & indoor installation (IP66 Rated)***
- Extreme temperature performance (-22° ~ 140°F / -30° ~ 60°C)
- 90° field of view
- Vandal resistant design with cable pass-through bracket
- Lightweight and durable polycarbonate housing
- Versatile ceiling or wall mounting options
- Residential and business friendly compact design

Disclaimers:

* Compatible with Lorex MPX series DVRs only.

** 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.

Camera Specifications

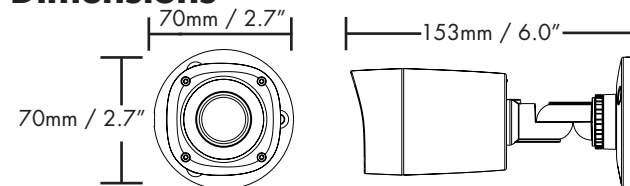
Image Sensor*	1/2.7" 1080p, 2 Megapixel Image Sensor
Video Format	NTSC (LBV2521) / PAL (LBV2521P)
Effective Pixels	H: 1930 V: 1088
Resolution	1080p @ 30FPS / 25FPS
Scan System	Progressive
Sync System	Internal
S / N Ratio	53dB (AGC Off)
Iris	AES
AES Shutter Speed	1/60 (1/50) ~ 1/100,000 Sec.
Min. Illumination	0.2 Lux without IR LED 0 Lux with IR LED
Video Output	MPX
Lens / Lens Type	3.6mm F2.1 / Fixed
FOV (Horizontal)	90°
Termination	BNC Type
IR LED Qty. / Type	12 pieces / 850nm
Night Vision Range**	130ft (40m) / 90ft (28m)
Power Requirement	12V DC ±10%
Power Consumption	Max. 220mA (w / IR)
Operating Temp. Range	-22° ~ 140°F / -30° ~ 60°C
Operating Humidity Range	< 95% RH
Indoor/Outdoor***	Both (IP66)
Weight (including stand)	0.3lbs / 0.1kg

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Dimensions



FOR SUPPORT AND INFORMATION,
VISIT WWW.LOREXTECHNOLOGY.COM

- Product Information
- Specification Sheets
- User Manuals
- Software Upgrades
- Quick Start Guides
- Firmware Upgrades

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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
LBV2521_SERIES_TRIFOLDQSG_EN_R2

LOREX
BY **FLIR**

MPX 1080P WEATHERPROOF
NIGHT VISION SECURITY CAMERA

Quick Start Guide
English Version 2.0



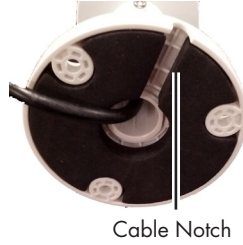
LBV2521 / LBV2521P SERIES

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.

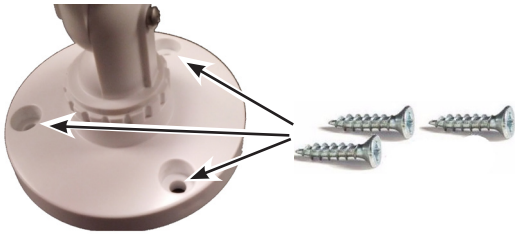
Before installing the cameras:

- 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.



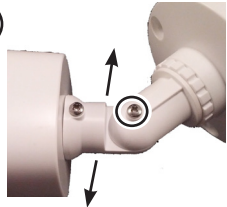
- Set the position and angle of the camera.

A



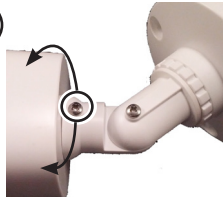
A) Turn the adjustment ring to tighten / loosen the stand connection. Adjust the camera's horizontal position.

B



B) Loosen lower screw with a philips head screwdriver (not included) to adjust the camera's vertical position.

C

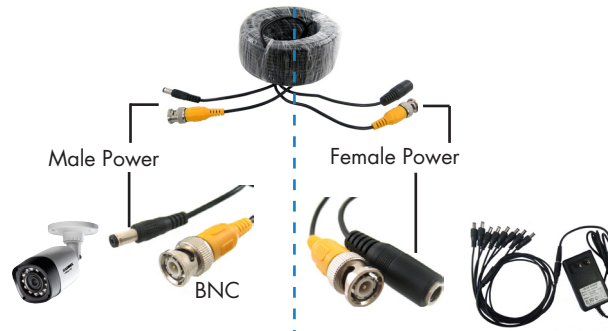


C) Loosen upper screw with philips head screwdriver (not included) to rotate the camera housing.

Connecting the Cameras

To Camera:

To DVR:



- Connect the BNC and power connectors to the camera.

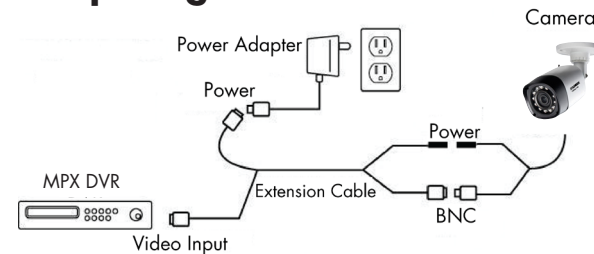
- Connect the BNC connector to the video input of your DVR.
- Connect the power connectors to the 8-in-1 power adapter. **OR** Connect each camera to an individual power adapter.

8-in-1 Power Adapter

An "8-in-1" power adapter that provides power to up to 8 cameras may be provided, depending on product configuration. Connect up to 8 cameras to the power splitter cable.



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.

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 MCBL-60BNCU / MCBL-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	<ul style="list-style-type: none"> Ensure the camera is connected to an MPX Series DVR. Camera is not compatible with other DVR models. Visit www.lorextechnology.com for compatibility information. 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Check the brightness and contrast settings of the DVR or monitor.
Night vision is not working	<ul style="list-style-type: none"> The night vision activates when light levels drop. The area may have too much light.
Picture is not clear	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Night vision reflects when pointing a camera at a window. Move the camera to a different location.