Contents

- Weatherproof HD-SDI IR bullet camera*
- Mounting screws x 4 / allen key x 1*
- mini-RG59 BNC / power extension cable*
- Power adapter**

*A Model LBCHD551PK2 is a 2-pack that includes two of the listed items. ** A “2-in-1” Power Adapter that provides power to two cameras may be substituted for individual power adapters, depending on product configuration.

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

- 1080p (1920x1080) Megapixel CMOS Image Sensor
- Megapixel lens for superior detail
- Automatic infrared filter ensures true color in all lighting conditions
- ClearNight imaging technology ensures clear night vision and improves recording efficiency
- Night Vision up to 100ft (30m) away in total darkness and up to 155ft (48m) away in typical night time ambient lighting*
- Cable pass-through wall-mount bracket protects connection cables
- Weatherproof (IP66) rated housing for indoor/outdoor installations**

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

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.

Camera Specifications

<table>
<thead>
<tr>
<th>Image Sensor</th>
<th>1/2.9&quot; 2.4 Megapixel CMOS Sensor (16:9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Format</td>
<td>NTSC</td>
</tr>
<tr>
<td>Effective Pixels</td>
<td>H: 1984 V:1105</td>
</tr>
<tr>
<td>Resolution</td>
<td>Up to 1920 x 1080p @ 30fps</td>
</tr>
<tr>
<td>Scan System</td>
<td>Progressive</td>
</tr>
<tr>
<td>Sync System</td>
<td>Internal</td>
</tr>
<tr>
<td>S / N Ratio</td>
<td>&gt;50dB</td>
</tr>
<tr>
<td>Iris</td>
<td>AES</td>
</tr>
<tr>
<td>AES Shutter Speed</td>
<td>1/1 ~ 1/60,000 sec.</td>
</tr>
<tr>
<td>Min. Illumination</td>
<td>0.5 Lux without IR LED</td>
</tr>
<tr>
<td></td>
<td>0 Lux with IR LED</td>
</tr>
<tr>
<td>Video Output</td>
<td>HD-SDI - 800mVpp @ 75ohm</td>
</tr>
<tr>
<td>Lens / Lens Type</td>
<td>3.7mm F2.5 / Fixed</td>
</tr>
<tr>
<td>FOV (Diagonal)</td>
<td>106°</td>
</tr>
<tr>
<td>Termination</td>
<td>BNC Type (HD-SDI)</td>
</tr>
<tr>
<td>IR LED Qty. / Type</td>
<td>24 pieces / 850nm</td>
</tr>
<tr>
<td>Night Vision Range*</td>
<td>100ft (30m) / 155ft (48m)</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>12V DC ±10%</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>Max. 390mA (w/IR)</td>
</tr>
<tr>
<td>Operating Temp. Range</td>
<td>14° ~ 122°F / –10° ~ 50°C</td>
</tr>
<tr>
<td>Operating Humidity Range</td>
<td>&lt; 90% RH</td>
</tr>
<tr>
<td>Indoor/Outdoor**</td>
<td>Both (IP66)</td>
</tr>
<tr>
<td>Weight (including stand)</td>
<td>1.3lbs / 0.6kg</td>
</tr>
</tbody>
</table>

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Dimensions

- 253mm / 8.5”
- 122mm / 4.8”
- 88mm / 3.5”

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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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.

**To install the camera:**
1. Use the camera base to mark holes in the wall or ceiling.
2. If you are running the cables along the wall / ceiling, run the cable through the cable notch on the base. If you are running the cables through the wall, connect the power and video cables according to the section ‘Connecting the Camera.’
3. Mount the camera to the wall or ceiling using the included mounting screws.
4. Loosen the camera stand screws using the included allen key. Loosen the adjustment ring.
5. Move the camera to the desired position, and while holding it firmly in place, turn the adjustment ring on the camera stand clockwise to tighten. Tighten the screws on the camera stand.

Connecting the Camera

**To Camera:**
1. Connect the BNC and power connectors to the camera

**To HD-SDI DVR:**
2. Connect the BNC connector to the video input of an HD-SDI DVR.
3. Connect the power connectors to the 2-in-1 power adapter. OR Connect each camera to an individual power adapter. See Power Adapter Types for details.

Power Adapter Types

- Single AC Power Adapter
- 2-in-1 Power Adapter

Cable Extension Options

Please use the included extension cables, or visit www.lorextechnology.com for compatible RG59 extension cables. Regular BNC extension cables are not compatible with this camera.

Compatible Cable Types:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Maximum Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lorex MCL-100MRG59B - 100’ high performance RG59 / Power cable</td>
<td>100ft / 30m (actual length)</td>
</tr>
<tr>
<td>Lorex MCL-200MRG59B - 200’ high performance RG59 / Power cable</td>
<td>200ft / 60m (actual length)</td>
</tr>
<tr>
<td>Lorex MCL-300MRG59B - 300’ high performance RG59 / Power cable</td>
<td>300ft / 92m (actual length)</td>
</tr>
<tr>
<td>RG59 or RG6 – 20AWG Conductor 95% Braid CSA/UL or C(UL) approved (video only)</td>
<td>300ft / 92m</td>
</tr>
<tr>
<td>Siamese – 20 AWG Conductor 95% Braid (video) with 2C/18 for power CSA/UL or C(UL) approved</td>
<td>300ft / 92m</td>
</tr>
</tbody>
</table>

- The entire length of the extension cable must be made using a single extension cable between the camera and DVR. **It is not possible to connect multiple extension cables together.**
- 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:
  - No video is received from the camera
  - Video quality or resolution is lower than normal
  - Video is distorted

Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
</table>
| No picture / signal | • There is an issue with the extension cable run. For example, the cable may be too long, may not be compatible with the camera, or multiple cables may be connected together. See ‘Cable Extension Options’ for more information.
• 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).
• Slide the sunshade (bullet cameras featuring adjustable sunshades 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 (bullet cameras featuring adjustable sunshades only) 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. |
| 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. |