WATCH OVER YOUR WORLD FROM ANYWHERE IN THE WORLD

Don’t miss a thing with true-to-life video in real-time. Lorex Stratus Connectivity offers instant connection anywhere you go with no recurring fees.

16 Channels  2TB HDD  960H  900 TVL Resolution

www.lorextechnology.com
DVR FEATURES:

- Tablet / smartphone viewing and playback
- Lorex Stratus Connectivity - 3 step setup
- Superior 960H Resolution - 34% more detailed and true-to-life images
- Real-time recording at 30fps per channel
- 24/7 security-grade hard drive
- Instant email alerts with snap shot attachment
- Continuous, scheduled and motion recording
- Advanced mobile apps with live viewing, playback, video recording, and snap shot
- PC and Mac compatible
- HDMI cable included for simple connection to HD TVs
- H.264 video compression
- Pentaplex operation - view, record, playback, back up & remotely control the system simultaneously
- PTZ cameras supported (RS485). Remotely control through App
- Accurate time stamps with NTP & Daylight Savings Time
- 3 video outputs (HDMI, VGA and BNC) to connect multiple monitors
- Automatic firmware upgrades over Internet ensure your system is secure and up to date
SEE IT ALL - IN GREATER DETAIL

Keep an eye on your home or business day or night with this high-resolution security camera.

CAMERA FEATURES:

• 1.3 Megapixel image sensor (900 TVL resolution)
• Lightweight yet extremely durable Polycarbonate housing
• Integrated automatic Infrared Cut Filter (ICR) ensures accurate color representation in all lighting conditions
• Day/Night mode: Picture automatically switches to B&W delivering better clarity in low light conditions
• BrightNight viewing with enhanced low light image sensor
• Close-up recognition at night with auto light compensation prevents wash-out effect
• Night vision range up to 130ft (40m) in ambient lighting & up to 90ft (28m) away in total darkness
• Modern two-tone design - residential and business friendly
• Split glass design minimizes IR reflection
• Anti-glare feature ensures clear images under strong lighting conditions
• 3.6mm wide-angle lens captures a wide field of view
• Vandal resistant design with cable pass-through bracket
• Ideal for outdoor & indoor applications (IP66 Rated)
• Removable camera base and integrated 3ft camera cable for hassle-free and flexible installation
• Versatile mounting options: ceiling, counter or wall mountable
• 60ft BNC/Power extension cable included per camera
• Energy-efficient CEC (California Energy Commission) compliant power adapter included

130/90 FT Night Vision 900 TVL Resolution IP66
VIEW THE ENTIRE SCENE WITH PAN-TILT-ZOOM

Don't miss a thing with advanced pan-tilt-zoom capabilities and exceptional low-light performance in a compact package.

**PTZ CAMERA FEATURES:**

- Latest 960H Sony EXview™ II image sensor for excellent low light performance
- Sony Effio™ video image processor delivers up to 700TV lines of resolution
- 10X Optical Zoom and 10X Digital Zoom to focus in on even the finest details
- Complete area coverage with fast 360 degrees per second panning speed
- Program preset viewing points when connected to a DVR
- ClearNight technology with Digital Noise Reduction improves low light performance and recording efficiency by up to 30%
- Accurate colors with Lorex's automatic light filtering technology
- Easy installation with pre-attached wall mount
- Weatherproof (IP66) rated
- Connects to any Lorex Eco™ or Edge™ series DVR for local or remote operation
- 100ft all-in-one extension cable included for installation location flexibility

**960H 700 TVL Resolution 10X Optical Zoom 360°/SEC Panning Speed**

LH160 ECO 6 Series DVRs
### SYSTEM Specifications

**Operating System** Linux (embedded)

**Pentaplex** Simultaneous View, Record, Playback, Backup & Remote Monitoring

**Number of Channels** 8/12/16/24 ch

#### Inputs/Outputs

- **Video IN** 8/12/16/24 x 1 Vpp, CVBS, 75ohms, BNC
- **Video OUT** 1 x BNC
- **VGA OUT** Yes
- **HDMI** Yes
- **Audio IN** 8/12/16/24 ch
- **Audio OUT** 1 line OUT (RCA), G.711
- **USB Port** 1 at the back, 1 at the front
- **Alarm IN** 8 Alarm IN
- **Alarm OUT** 1 Alarm OUT
- **Video Output Resolution** 1920x1080 HDMI, 1440x900, 1280x1024, 1024x768
- **PTZ control** RS-485 Pelco D & P Protocol

#### Display

- **Live Display** 8 ch: 1, 4, 9, 12, 16 ch: 1, 4, 9, 16, 24 ch: 1, 4, 9, 16, 24
- **Live Display Speed** 8 ch: 240 NTSC, 200 PAL, 12 ch: 360 NTSC, 300 PAL, 16 ch: 480 NTSC, 400 PAL, 24 ch: 720 NTSC, 600 PAL
- **OSD** ON/OFF

#### System Navigation

- **USB Mouse, IR Remote Controller, Front Panel**

#### Motion Area Setting

- **Adjustable grid (30x44)** NTSC
- **Adjustable grid (36x44)** PAL

#### Sensitivity levels

- **8**

#### Firmware Upgrade

- Automatic over the Internet & via USB device and Network

#### User Authority

- By user group

#### Time Synchronization

- Auto time sync by NTP server

#### Recording

- **Video Compression** H.264
- **Audio Compression** G.711
- **Recording Resolution**
  - **NTSC**: 960H: 960x480, 960x240, 480x240
  - **D1 mode**: 720x480(D1), 720x240(2CIF), 360x240(CIF)
  - **PAL**: 960H: 960x576, 960x288, 480x288
  - **D1 mode**: 720x576(D1), 720x288(2CIF), 360x288(CIF)

#### Recording Resolution Setting

- Per camera for different resolutions

#### Recording Quality Control

- 3 levels

#### Recording Schedule

- **Alarm, by ch**
- **By hour, by day, by recording mode, by motion, by**
- **Pre Recording** Max. 10 Secs
- **Post Recording** Max. 5 Minutes

#### Reliability

- **Watch-Dog, Auto-recovery after power failure**
- **Covert Video** Yes

#### PLAYBACK

- **Playback Channel** 8 ch: 1–8 Adjustable, 12 ch: 1–12 Adjustable, 16/24 ch: 1–16 Adjustable
- **Playback Speed** Variable Max. 16x
- **Playback Players** Backup Player
- **Search** By time & event
- **Log Search** Up to 100,000 lines for system, configuration changes, motion/alarm detected, account, record and storage
- **Audio Play** Yes

#### STORAGE & ARCHIVE

- **Storage** 8/12/16 ch: Up to 1 HDD’s (SATA), 24 ch: Up to 2 HDD’s (SATA)
- **Maximum Capacity** 8/12/16 ch: Up to 1 x 4TB, 24 ch: up to 2 x 4TB
- **Backup Media** USB Flash Drive & HDD
- **Backup File Format** H.264 file (AVI generator included)

#### CONNECTIVITY

- **Cloud Connection** Lorex Stratus Connectivity
- **Supported Operating Systems**
  - Windows™
  - Mac OS
- **Remote Software** Client Software (PC) & Safari (Mac)
- **Email notification** Text with snapshot
- **Instant Smart Phone ** iPad®, iPhone®, Android™ & Tablet Support †
- **DDNS** Free Lorex DDNS
- **System Configuration** Full setup configuration over network
- **Ports** Programmable by User
- **Network Protocol** TCP/IP / DHCP / UDP / DDNS / PPPoE
- **Network Interface** 10/100-Base-TX, RJ-45
- **Network Speed Control** 48Kb ~ 8MB/sec.

#### GENERAL

- **Power Consumption** Approx. 10 watts (no HDD included)
- **Supply Voltage**
  - 8/12/16 ch: 100VAC-240VAC, 12VDC , 2A, 50/60Hz
  - 24 ch: 100VAC-240VAC, 12VDC , 5A, 50/60Hz
- **Unit Dimensions**
  - 8/12/16 ch: 11.8"/300mm x 9.9"/251mm x 2.4"/60mm
  - 24 ch: 14.9"/380mm x13.3"/340mm x 1.9"/50mm
- **Unit Weight (KGs)**
  - 8 ch: 1.7 kg/3.75 lbs
  - 12 ch: 1.95 kg/4.3 lbs
  - 16 ch: 2.05 kg/4.5 lbs
  - 24 ch: 3.54 kg/7.8 lbs
- **Operating temperature** 32° ~ 104° F / 0° ~ 40° C
- **Humidity** 10 ~ 90% NC

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**Recording Resolution (Pixels) & Speed (FPS - Frames per Second)**

<table>
<thead>
<tr>
<th>Channel</th>
<th>Total</th>
<th>Per Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>8ch</strong></td>
<td>240</td>
<td>30</td>
</tr>
<tr>
<td><strong>12ch</strong></td>
<td>360</td>
<td>30</td>
</tr>
<tr>
<td><strong>16ch</strong></td>
<td>480</td>
<td>30</td>
</tr>
<tr>
<td><strong>24ch</strong></td>
<td>720</td>
<td>30</td>
</tr>
</tbody>
</table>

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LH160 ECO 6 Series DVRs | www.lorextechnology.com
### CVC7721PK4B

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Sensor</td>
<td>1/3&quot; 1.3 MP Sony Exmor® CMOS</td>
</tr>
<tr>
<td>Video Format</td>
<td>NTSC</td>
</tr>
<tr>
<td>Effective Pixels</td>
<td>H: 1395 V: 1049</td>
</tr>
<tr>
<td>Resolution</td>
<td>900 TVL</td>
</tr>
<tr>
<td>Scan System</td>
<td>21 Interface</td>
</tr>
<tr>
<td>Sync System</td>
<td>Internal</td>
</tr>
<tr>
<td>S / N Ratio</td>
<td>48dB (AGC ON)</td>
</tr>
<tr>
<td>Iris</td>
<td>AES</td>
</tr>
<tr>
<td>AES Shutter Speed</td>
<td>1/60 ~ 1/100,000 sec.</td>
</tr>
<tr>
<td>Min. Illumination</td>
<td>0.01 Lux without IR LED</td>
</tr>
<tr>
<td></td>
<td>0 Lux with IR LED</td>
</tr>
<tr>
<td>Video Output</td>
<td>Composite 1.0Vpp @ 75ohm</td>
</tr>
<tr>
<td>Lens / Lens Type</td>
<td>3.6mm F2.0 / Fixed</td>
</tr>
<tr>
<td>FOV (Diagonal)</td>
<td>92°</td>
</tr>
<tr>
<td>Termination</td>
<td>BNC Type</td>
</tr>
<tr>
<td>IR LED Qty / Type</td>
<td>24 pieces / 850nm</td>
</tr>
<tr>
<td>Night Vision Range</td>
<td>130ft (40m) / 90ft (28m)</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>12V DC ±10%</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>Max. 320mA (w / IR)</td>
</tr>
<tr>
<td>Operating Temp. Range</td>
<td>-4°F ~ 122°F / -20°C ~ 50°C</td>
</tr>
<tr>
<td>Operating Humidity Range</td>
<td>&lt; 80% / RH</td>
</tr>
<tr>
<td>Environmental Rating</td>
<td>IP66</td>
</tr>
<tr>
<td>Weight (Including stand)</td>
<td>0.6lbs / 0.2kg</td>
</tr>
</tbody>
</table>

### LKC7092B

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Image Sensor</td>
<td>1/3&quot; Sony Ex-View HAD CCD II</td>
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<tr>
<td>Video Format</td>
<td>NTSC</td>
</tr>
<tr>
<td>Effective Pixels</td>
<td>776(H) x 494(V)</td>
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<tr>
<td>Resolution</td>
<td>up to 700 TVL</td>
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<tr>
<td>Range</td>
<td>360° Pan (Endless) / 160° Tilt (Auto-Flip)</td>
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<tr>
<td>Pan/Tilt Speed</td>
<td>Max 360°/Sec.</td>
</tr>
<tr>
<td>Zoom</td>
<td>10x Optical Zoom &amp; 10x Digital Zoom</td>
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<tr>
<td>Protocol</td>
<td>Pelco-D, Pelco-P</td>
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<tr>
<td>Min. Illumination</td>
<td>0.7 Lux in Color</td>
</tr>
<tr>
<td></td>
<td>0.02 Lux in Black and White</td>
</tr>
<tr>
<td>Lens/Lens Type</td>
<td>Auto Focus / 3.8-38mm F 1.8</td>
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<tr>
<td>S/N Ratio</td>
<td>50db (AGC OFF)</td>
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<tr>
<td>Iris</td>
<td>Auto Iris</td>
</tr>
<tr>
<td>Day/Night</td>
<td>IR Cut Filter (ICR)</td>
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<tr>
<td>Termination</td>
<td>BNC Video / RS485 / DC Power</td>
</tr>
<tr>
<td>Video Output</td>
<td>Composite 1.0Vpp @ 75ohm</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>12V DC ±10%</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>Max. 850mA</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-4°F ~ 122°F / -20°C ~ 50°C</td>
</tr>
<tr>
<td>Operating Humidity Range</td>
<td>within 90%RH</td>
</tr>
<tr>
<td>Indoor/Outdoor</td>
<td>Both (IP66)</td>
</tr>
<tr>
<td>Weight</td>
<td>2.9lbs / 1.3kg</td>
</tr>
</tbody>
</table>
Product Information:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CONFIGURATION</th>
<th>PACKAGE</th>
<th>W x D x H</th>
<th>WEIGHT</th>
<th>CUBE</th>
<th>UPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>LH1612Z1C122Z1B</td>
<td>16 ch EC06 DVR with 2TB HDD &amp; 12 x 960TVL Cameras (CVC7721PK4B) &amp; 1 x 700TVL PTZ Camera (LZC7092B)</td>
<td>Brown Box</td>
<td>508 mm x 444 mm x 513 mm</td>
<td>21.8 kg / 48.2 lbs (estimated)</td>
<td>0.04 cbm / 1.62 cft</td>
<td>6-95529-00115-9</td>
</tr>
</tbody>
</table>

DVR Includes: 16 Channel DVR with Pre-Installed HDD, HDMI Cable, Remote Control, Power adapter, Mouse, Ethernet Cable, Quick Start Guides.

Bullet Camera includes: 12 x Cameras, 12 x Mounting kit with Allen key, 12 x 60ft BNC / power extension cables, 3 x 4-in-1 Power adapters.

PTZ Camera Includes: 1 x PTZ Camera, 1x 100ft BNC/Power/RS485 Cable, 1 x 13V DC power adapter, 1 x Wall Mount (pre-attached), 1 x Instruction Manual, 1 x Mounting kit.

Disclaimers:

1. Requires a high speed internet connection and a router (not included). An upload speed of 1Mbps is recommended for the best video performance. Up to 3 devices may connect to the system at the same time.
2. Optimized when used with 960H compatible cameras. DVR is backwards compatible and supports different camera inputs: standard resolution and 960H.
3. High definition recording not supported, recording resolution is limited to a maximum of 960x480 per channel. Image quality and resolution is dependent on the type of camera connected to the DVR.
4. Recording time may vary based on recording resolution & quality, lighting conditions and movement in the scene.
5. Both firmware and software must be updated to latest version to ensure remote connectivity. Always update to the latest software (available at www.lorextechnology.com) after upgrading the DVR firmware.
6. 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.
8. This camera features an ultra-low light sensitive image sensor and therefore does not feature Infra-Red LEDs. The camera requires ambient lighting (for example, street/building lighting, star or moon light) to render a night time image. In total darkness (zero Lux) the camera will not produce a night time image and therefore the camera should not be installed in completely dark areas.
9. Wall mount only. Ceiling mount not supported.

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