EDGE + WIRELESS SECURITY CAMERA SYSTEM

Connect from anywhere in the world on any device†. Ideal for business or home.

- iPhone
- Blackberry™ & compatible 3G Smartphones†
- PC
- Mac

- SECURE DIGITAL WIRELESS VIDEO SIGNAL
- RECORD 35 DAYS TO 9 MONTHS
- INSTANT SMART-PHONE VIEWING
- INTERNET MONITORING ON PC & MAC
- EASY CONNECT SETUP WIZARD
- DAY & NIGHT, INDOOR / OUTDOOR
- INTERFERENCE-FREE, PRIVATE SIGNAL
- SLIM DESIGN & FLEX MOUNTING
- SIMPLE INSTALLATION, SILENT OPERATION
- EXPANDABLE SOLUTION

LH320CW “Edge+” Series

COMPONENT SURVEILLANCE SYSTEM

www.lorextechnology.com
Digital Video Recorder:
• EDGE design for stand alone or VESA mount (Wall & LCD).
• 3D graphics, crisp, color rich, high contrast video.
• DVI/VGA output for display on LCD PC or TV monitor with DVI/VGA input. HDMI compatible.†
• H.264 video compression providing over 35 days of continuous recording to 9 months with motion recording.†
• Expandable up to 2TB 24x7 100% duty cycle SATA Hard Disk Drive (HDD).
• Pentaplex operation - View, Record, Playback, Back Up & Remotely Control the system simultaneously.
• Record at VGA resolution (640 x 480) per channel.
• Video output (up to) 1280 x 1024 @ 60 Hz.
• Small form factor (7.0x11.5x1.5”).
• “Flex” IR controller (line-of-sight not required).
• USB: backup, image transfer, firmware upgrade, mouse.
• Alarm Input/Output (4/1 ), 2 Audio Inputs/output.
• PTZ cameras supported (RS485).
• Record on motion detection, schedule or continuous.
• Navigation: Front controls, Mouse, Remote Control.

Connectivity:
• LOREX Instant Mobile Viewing on iPad™, iPhone™ and other compatible Smart phones†: BlackBerry (9000 & above), Android (version 1.5 & above) and Windows Mobile (6.0 & above).
• Exclusive LOREX Easy Connect Internet Set-up Wizard.2
• PC (Microsoft Windows™ 7/Vista/XP compatible) using Internet Explorer® browser.
• Apple Mac™ compatible using Safari browser for multi channel live viewing.
• Free LOREX DDNS (Dynamic Domain Name Service) for advanced remote connectivity at all times.
• Instant email alerts.

DVR Disclaimers:
1 Recording capacity may vary based on recording resolution & quality, lighting conditions and movement in the scene.
2 Requires a high speed internet connection and router (not included).
† Instant Mobile Viewing on iPad™, iPhone™ and other compatible Smart phones: BlackBerry (9000 & above), Android (version 1.5 & above) and Windows Mobile (6.0 & above). Selectable one channel live viewing. Mobile phone data plan is required (not included). Router port forwarding required. For the latest smart phone compatibility list check www.lorextechnology.com
† † Easily mounts to the back of an LCD monitor (not included) †† (Requires clear access to the VESA mounting holes. Monitor not included).
† † Easily mounts to the back of an LCD monitor with VESA standard mounting holes and an independant stand (monitor not included). Requires clear access to the 100 x 100 mm VESA mounting holes. Monitor not included. Pictures simulated.
LOREX (4x2, 4x4, 8x4)

EDGE + WIRELESS SECURITY CAMERA SYSTEM

LW2110 Wireless Features:
• FHSS Digital Wireless Technology provides excellent image quality and clarity
• Built-in auto-mechanical infrared camera filter achieves accurate color reproduction in varying lighting conditions
• Simple installation. No video cable required
• Connect multiple receivers to your surveillance recorder (DVR) to create a wireless surveillance solution
• Easily connects to a TV/Monitor (RCA) or DVR (BNC)
• Night viewing up to 60ft (18m)
• Install camera indoors or outdoors
• Up to 150ft (46m) indoor / 450ft (137m) outdoor wireless range

Additional Receiver Features:
• Connects directly to the back of a DVR for a clean installation
• High gain antenna ensures improved long distance operation
• View in VGA resolution for high quality video or CIF for real time observation
• Safety warning feature notifies you when the camera is out of range

Additional Camera Features:
• VGA (640x480) resolution camera
• Night vision for viewing in complete darkness
• Weatherproof 4 housing ideal for indoor/outdoor use
• 3D-flex stand offers flexible camera positioning

Wireless Disclaimers:
1. Camera requires a wired connection to a power outlet. Power adapter included.
2. Using multiple receivers in close proximity to each other may cause a slight slowdown in frame rate performance. Try to maintain at least a few inches of space between each receiver. 3ft extension cable included.
3. Stated IR Illumination range is based on ideal conditions. Actual range and image clarity depends on installation location, viewing area and light reflection/absorption level of object.
5. Maximum wireless transmission range. Actual range dependent upon building materials and other obstructions in path of wireless signal.
DVR Specifications:

**SYSTEM**
- **Operating System**: Linux (embedded)
- **Pentaplex**: Simultaneous View, Record, Playback, Backup & Remote Monitoring
- **Number of Channels**: 4/8/16 Channel

**Inputs/Outputs**
- **Video IN**: 4/8/16 x 1Vp-p, 75ohms, BNC
- **DVI Out**: DVI compatible. DVI to VGA Converter included
- **Audio IN**: 2 line in(RCA)
- **Audio Out**: 2 line out(RCA)
- **USB Port**: 2 front & back
- **Alarm IN**: 4 x TTL, programmable as NC/NO
- **Alarm Out**: 1 x Relay with NO/NC contact
- **PTZ control**: By Terminal connector (RS485)

**Display**
- **Live Display**: 1 or 4 (4ch) / 1 or 4 or 9 (8ch) / 1 or 4 or 9 or 16 (16ch)
- **Display Speed**: 120 fps (NTSC), 100 fps (PAL) @ 640 x 240 NTSC / 640 x 256 PAL
- **OSD**: ON/OFF
- **OSD Navigation**: USB Mouse, IR Remote Controller, Front Panel Controls
- **Activity Detection**: 6 x 8 grid
- **Sensitivity levels**: 100
- **System Control**: USB Mouse, Front Panel Controls, Handheld Remote Control
- **Firmware Upgrade**: Via USB device
- **User Authority**: ADMIN/USER/GUEST

**RECORDING**
- **Video Compression**: H.264
- **Audio Compression**: ADPCM
- **Recording Speed & Resolution**
  - **4 Channel**: 120 fps (NTSC), 100 fps (PAL) @ 640 x 240 NTSC / 640 x 256 PAL
  - **60 fps (NTSC), 50 fps (PAL) @ 640 x 480 NTSC / 640 x 512 PAL
  - **240 fps (NTSC), 200 fps (PAL) @ 320 x 240 NTSC / 320 x 256 PAL
  - **120 fps (NTSC), 200 fps (PAL) @ 640 x 240 NTSC / 640 x 256 PAL
  - **60 fps (NTSC), 100 fps (PAL) @ 640 x 480 NTSC / 640 x 512 PAL
- **Recording Resolution Setting**: Programmable per camera
- **Recording Quality Control**: 5 levels
- **Image Size**: 8.51 Kbyte (640x480), 11.2 Kbyte (640x240), 14.13 Kbyte (320x240), 30.25 Kbyte (320x256)
- **Recording modes**: Continuous, motion, alarm
- **Pre Recording**: Max. 10 seconds
- **Post Recording**: Max. 255 seconds
- **Alarm Recording**: Programmable per camera
- **Reliability**: Watch-Dog, Auto-recovery after power failure

**PLAYBACK**
- **Playback Display**: 1.4 (4ch), 1.4 (8ch), 1.4, 9, 16 (16ch)
- **Playback Speed**: Variable up to 60x
- **Playback Players**: Apple QuickTime Player
- **Search**: By time & event

**STORAGE & ARCHIVE**
- **Storage**: Up to 1 HDD’s (SATA)
- **Maximum Capacity**: Up to 2TB
- **Backup Media**: USB Flash Drive (max 4GB)
- **Backup File Format**: MOV file (Codec included)
- **Bookmark Archiving**: Supported

**CONNECTIVITY**
- **Easy Connect**: 1. Yoics Enabled (registration required)
- **2. Lorex Auto Port Forward Wizard**
- **Software**: Web browser
- **Supported Operating Systems**: Windows™ XP, Vista, 7 and Apple Mac (via Safari browser)
- **Browsers**: Internet Explorer, Safari
- **Email notification**: Text (4ch), Snap Shot attachment (8/16ch)
- **Mobile connectivity**: iPad™, iPhone™ - 3.1.2 and above, Blackberry™ - 9000 Series and above, Android (version 1.5 & above), Windows Mobile™ smart phones – 6.0 and above touch screen smart phones
- **DNS**: Free Lorex DDNS
- **Web Server Port**: Programmable by User
- **Network Protocol**: LAN, DHCP, Dynamic IP, DDNS
- **Network Interface**: 10/100-Base-TX, RJ-45
- **Network Speed Control**: 10 levels (28.8Kb ~ 1.5MB)/sec.

**GENERAL**
- **Power Consumption**: Approx. 30 watts
- **Supply Voltage**: 120VAC-240VAC, 12VDC, 50/60Hz
- **Unit Dimensions [W x D x H]**: 11.6” / 290mm X 7.2” /180mm X 1.67” /41.8mm
- **Unit Weight [KGs]**: 1.15±0.1 kg (4ch) / 1.45±0.1 kg (8/16ch)
- **Operating temperature**: 41° ~ 104° F / 5° ~ 40° C
- **Humidity**: 10 ~ 75% NC

**DVR BACK PANEL:**
- **4 Channel**
- **8 Channel**

**COMPONENT SURVEILLANCE SYSTEM**

www.lorextechnology.com
Wireless Camera Specifications:
Imaging Sensor Type: CMOS
Picture Total Pixels: 640 x 480pxl (NTSC)
Minimum Illumination: 0 Lux (IR on)
Night Vision Distance: 60ft / 18m
Lens: 5.1 mm, F2.8
View Angle: Diagonal 48°
Consumption Current (Max.): 200mA
Power Supply: 12V DC
Environment Rating (Ingress): IP66
Dimensions (W x D x H): 75mm x 120mm x 220mm / 3.0” x 4.8” x 8.7” (with antenna)
Weight: 0.3kg / 0.6lbs

DVR Dimensions:
290mm/11.4”
42mm/1.6”
180mm/7.0”

Product Information:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CONFIGURATION</th>
<th>PACKAGE</th>
<th>W x D x H in &amp; mm</th>
<th>WEIGHT</th>
<th>CUBE</th>
<th>UPC Code</th>
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<tbody>
<tr>
<td>LH324501C2W</td>
<td>4 ch DVR x 500GB HDD x 1 x LW2110PK2B</td>
<td>Retail</td>
<td>327mm x 241mm x 411mm 12.9” x 9.5” x 16.2”</td>
<td>5.3kg/11.8 lbs</td>
<td>0.03175m/1.13384 ft</td>
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<td>Retail</td>
<td>327mm x 241mm x 411mm 12.9” x 9.5” x 16.2”</td>
<td>7.2kg/16.0 lbs</td>
<td>0.03175m/1.13384 ft</td>
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<td>8 ch DVR x 500GB HDD x 2 x LW2110PK2B</td>
<td>Retail</td>
<td>327mm x 241mm x 411mm 12.9” x 9.5” x 16.2”</td>
<td>7.2kg/16.0 lbs</td>
<td>0.03175m/1.13384 ft</td>
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<td>Brown</td>
<td>327mm x 241mm x 411mm 12.9” x 9.5” x 16.2”</td>
<td>7.2kg/16.0 lbs</td>
<td>0.03175m/1.13384 ft</td>
<td>7-78597-32802-8</td>
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DVR Pack Includes: DVR, HDD Pre-Installed, Remote Control & “Flex-IR” controller, Power adaptor, DVI to VGA Converter, Mouse, Ethernet Cable, 2 screws (for key-hole style VESA mounting), DVR Documentation CD, QSG, Instruction Manual.

1 pack LW2110PK2B Pack Includes: 2 x Wireless Micro Receivers, 2 x Color Outdoor Night Vision Cameras, 3 x Power Adapters, 1 x Power Adapter Splitter Cable, 2 x BNC Female / RCA Male Adapters, 2 x 3ft BNC Extension Cables