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

The leading Edge in video security.

LH328 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
- 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”)
- Expandable up to 2TB SATA HDD
- "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 Window Moblie (6.0 & above).
- Exclusive LOREX Easy Connect Internet Set-up Wizard
- 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

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**Monitor not included. Pictures simulated.**
INTERNET & MOBILE CONNECTIVITY, H.264, DAY/NIGHT (8x8, 8x4) 8 CHANNEL EDGE+ SECURITY CAMERA SYSTEM

CVC6930 CAMERAS:
- Resolution: 420 TV Lines
- 18 IR LEDs provides night vision range of 40ft (12m)**
- True Day/Night operation using built-in IR Filter Changeable Mechanism to achieve accurate color representation in changing lighting conditions
- Advanced Day/Night mode: picture automatically switches to B&W delivering better clarity in low light conditions
- Weatherproof Design: ideal for Outdoor and Indoor applications (IP66***)
- Ceiling, wall or counter mountable with versatile stand

CVC6996 CAMERAS:
- Advanced Image Sensor (AIS) produces High Resolution video (480 TV Lines)
- IR Cut Filter provides accurate color reproduction in all lighting conditions
- 30 High Intensity IR LEDs provide effective night vision range up to 75 ft. (23 m)****
- 5.1mm Pure Flat lens eliminates image distortion
- Day/Night mode: Picture automatically switches to B&W delivering better clarity in low light conditions
- Weatherproof cameras ideal for indoor and outdoor applications (IP66)*****
- A single 4-in-1 power adaptor provides power to all 4 cameras
- Versatile stand provides flexible mounting options: ceiling, counter or wall mountable

Mounting Options
- Wall mount
- Ceiling mount
- Table mount

CVC6996 Cameras with AIS Image Sensor + exclusive Infrared filter technology

Pure Flat™ Lens
- Eliminates image curving for an undistorted view

Anti-Glare technology
- Clear images under strong lighting conditions

LH328 Edge Series COMPONENT SURVEILLANCE SYSTEM
www.lorextechnology.com
Specifications:

DVR:

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

**Inputs/Outputs**
- Video IN: 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 or 9 (8ch) / 1 or 4 or 9 or 16 (16ch)
- Live Display Speed: 240 (8ch) / 240 (16ch) NTSC, 200 (8ch) / 200 (16ch) 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: 8/16 Channel: 240 fps (NTSC), 200 fps (PAL); 320 x 240 NTSC / 320 x 256 PAL
- Recording Resolution Setting: Programmable per camera
- Recording Quality Control: 5 levels
- Image Size: 8.51 Kbyte (640x480, 640x512), 11.2 Kbyte (640x240, 640x256), 14.13 Kbyte (320x240, 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, 9 (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: Snap Shot attachment (8/16ch)
- Mobile connectivity: iPad™, iPhone™, BlackBerry™- 9000 Series and above, Android (version 1.5 & above), Windows Mobile™ smart phones – 6.0 and above touch screen smart phones
- DDNS: 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, 2A(4ch) 3A(8/16ch), 50/60Hz
- Unit Dimensions: (W x D x H): 11.6” / 290mm X 7.2”/180mm X 1.67”/41.8mm
- Unit Weight: (KGs): 1.45±0.1 kg/3.2±0.22 lbs (8/16ch)
- Operating temperature: 41° ~ 104° F / 5° ~ 40° C
- Humidity: 10 ~ 75% NC
### Specifications:

#### CAMERA (CVC6930):

- **Image Sensor:** 1/4" Color Image Sensor
- **Video Format:** NTSC
- **Effective Pixels:** H: 640, V: 480
- **Resolution:** 420 TV Lines
- **Scan System:** 2:1 Interface
- **Sync System:** Internal
- **S/N Ratio:** More than 40dB
- **Iris:** AES
- **AES Shutter Speed:** 1/30–1/62,500 sec
- **Minimum Illumination:** 0.6 Lux without IR LED, 0 Lux with IR LED
- **Video Output:** Composite 1.0 Vpp @ 75 ohm
- **FOV (Diagonal):** 64°
- **Lens/Lens Mount:** 3.6mm F1.8/Board Type
- **Video Format:** NTSC
- **Image Sensor:** 1/4" Color Image Sensor
- **Environmental Rating:** IP 66
- **Operating Temp Range:** -10° ~ 50° C (-4°F ~ 122°F)
- **Power Consumption:** 170 mA or 2W max
- **Power Requirement:** 12V DC
- **IR LED/ Night Vision Range:** 18 pieces / 940 nm / 40ft
- **Dimensions:** 295mm/11.4" x 180mm/7.0" x 42mm/1.6"

#### CAMERA (CVC6996):

- **Image Sensor:** 1/4" Advanced Color
- **Video Format/Pixels:** NTSC: 654(H) x 492(V)
- **Horizontal Resolution:** 480 TVL
- **Sync. & Scan. Systems:** Internal; 2:1 Interface
- **S/N Ratio:** → 48dB
- **Iris & Shutter Speed:** AES: 1/60 - 1/50,000 sec.
- **Minimum Illumination:** 0.6 Lux @ F1.2 (IR off), 0 Lux (IR LEDs on)
- **Video Output:** Comp. 1.0 Vpp @ 75ohm
- **FOV (diagonal):** 50°
- **Lens/Lens Mount:** 5.0mm F2.8/Fixed
- **IR / Night Vision Range:** 30 IR LEDs/850nm/75' (23m)
- **Termination:** Video: BNC Female, Power: Barrel Female
- **Power Requirement:** 12V ± ±10%
- **Power Consumption:** 220 mA or 3W max
- **Operating Temp.:** 14°F ~ 122°F (-10°C ~ 50°C)
- **Weight (with stand):** 0.66 lb / 0.3 kg
- **Dimensions LxWxH:** 5.1" x 3" x 5.1" 130 mm x 75 mm x 129 mm
- **Environmental Rating:** IP 66

### Product Information:

#### Model:

- **LH328501C4 Edge** with 500GB HDD & 4x CVC6996 Cameras in a Giftbox.
- **UPC Code:** 7-78597-32813-4
- **Weight:** LH328501C4 6.1kg/13.4 lb
- **Dimensions:** LH328501C4 427mm x 335mm x 212mm / 16.8" x 13.2" x 8.4"

#### Cubes:

- **LH328501C8 327mm x 255mm x 212mm / 12.9" x 10.0" x 8.4"
- **LH328501C8HR 354mm x 269mm x 317mm / 13.9" x 10.6" x 12.5"

#### Package Dimensions:

- **Dimensions (W x D x H):**
  - LH328501C4 272mm x 121mm x 327mm / 10.7" x 4.8" x 12.9"
  - LH328501C8 529mm x 345mm x 317mm / 20.8" x 13.6" x 12.5"

#### Includes:

- 8 Channel DVR, HDD Pre-Installed, Remote Control & “Flex” IR controller,
- Power adaptor for DVR, Mouse, Ethernet Cable, DVI to VGA Converter, 4 or 8 x Cameras, 4 or 8 x Camera Stands, 4 or 8 x BNC to RCA Adaptors, 4 or 8 x 60ft BNC Extension Cables, 4 or 8 x Camera Power Adaptors (or 2 or 4 x 4 in 1 camera power adaptors), 2 screws (for key-hole style VESA mounting)

### Disclaimers:

1. Recording time may vary based on recording resolution & quality, lighting conditions and movement in the scene.
2. Requires a high speed internet connection and a router (not included).
   + **DVI to HDMI converter cable required.** (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 with VESA standard mounting holes and an independent stand (monitor not included).** Requires clear access to the 100 x100 mm VESA mounting holes.
   + **Not recommended for submersion in water. Installation under shelter is recommended.** Range and clarity vary depending on object reflection.
   + **Not recommended for submersion in water. Installation under shelter is recommended.** Objects at or beyond this range may be partially or completely obscured, depending on the camera application.
   + **Night vision range up to 75 ft. (23 m) in ideal conditions. Objects at or beyond this range may be partially or completely obscured, depending on the camera application.**
   + **Not intended for submersion in water. Installation in a sheltered location recommended.** Always use discretion when installing video and/or audio surveillance equipment especially when there is perceived privacy. Insure regarding federal, state and/or local regulations applicable to the lawful installation of video and or audio recording or surveillance. Party consent may be required.
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