WATCH OVER YOUR WORLD FROM ANYWHERE IN THE WORLD

THE ECONOMICAL SECURITY SOLUTION IDEAL FOR HOME OR BUSINESS.

- VIEW WITH SMARTPHONE & TABLET APPS
- MAC & PC INTERNET MONITORING
- 24/7 REAL-TIME RECORDING
- HDMI CONVENIENCE

INCLUDES
- 8/16 CHANNELS
- 500GB/1TB STORAGE
- INTERNET SETUP WIZARD

VANTAGE LH130 ECO2 SERIES

www.lorextechnology.com
VERSATILE CONNECTIVITY
Connect to your system on any device no matter where you are over a 3G/4G or Wi-Fi network.†

PROFESSIONAL-GRADE PERFORMANCE
Record on a specialty hard drive designed for surveillance, providing weeks or even months of reliable video.¹

CONNECT TO ANY MONITOR
TV/PC/CCTV with industry standards HDMI/VGA/BNC inputs up to 4 monitors simultaneously.

EASY SYSTEM NAVIGATION
New intuitive interface with simple icons allows for easy & efficient DVR programming.

DIGITAL VIDEO RECORDER:
• 8/16 channel digital video recorder
• H.264 video compression¹. D1 capable (720x480)
• Real time recording: 8/16ch: (360x240)/4ch: (720x240) resolution
• Pentaplex operation - View, Record, Playback, Back Up & Remotely Control the system simultaneously
• 24/7 100% Duty cycle hard drive pre-installed
• PTZ cameras supported (RS485)
• Exclusive LOREX Easy Connect Internet Set-up Wizard ²
• Instant Mobile Viewing on compatible Smart phones & Tablets†
• PC and Mac Compatible (Internet Explorer & Safari browsers)
• Free LOREX DDNS (Dynamic Domain Name Service) for advanced remote connectivity at all times
• Instant email alerts with snap shot attachment
• Accurate Time Stamps with NTP & Daylight Savings Time

INSIDE THE BOX:
• DVR with pre-installed HDD, Easy-to-follow Quick Setup Guide and Manual
• ALSO INCLUDES: Remote Control, Power Adapter, Mouse, Ethernet Cable, Documentation & Software CD

DIGITAL VIDEO SURVEILLANCE RECORDER
www.lorextechnology.com
DIGITAL VIDEO SURVEILLANCE RECORDER

ADDITIONAL FEATURES:

• HDMI output (HDMI cable included in the 8ch DVR) for convenient connection to HD TVs.*

• Keep in Touch with your world. PC or Mac to connect, view and control your system remotely.

• You don’t have to be a wiz to set it this product. Internet setup wizard, and dedicated Apps give you the peace of mind at the tip of your fingers.

• Simple to use Apps with multi-camera live viewing and instant connection allows you to keep an eye on the things that matter to you most.

• Record on a reliable 24/7 100% duty HDD (Hard Disc Drive) that is designed for surveillance purposes.

• Customize the recording settings to fit your needs. Record at D1 (720x480) for highest resolution or set to a lower resolution for extended recording time (720 x 240 or 360 x 240).

• Simple setup - easy Copy feature allows you to copy your settings from one camera to all cameras saving you time when programming your DVR.

• Dependable time stamps – your DVR will always record with accurate time stamps thank to LOREX NTP (Network Time Protocol) that syncs with the atomic clock as well as advanced Day Light Saving modes.

• Reliable DDNS and email relay service. Register for a free DDNS service (one web address to remember) providing you with connectivity you can count on at all times.

• A total of 4 video outputs (HDMI, VGA, BNCx2) allows you to connect to multiple monitors simultaneously**. Ideal for business applications where you have the DVR in the back office as well as a public view monitor.

• Picture in Picture (PIP) allows you to monitor a scene in full screen mode while keeping an eye on up to two other locations simultaneously.

• Digital zoom allows you to get a closer view while in live viewing full screen mode.

• Unique continuous recording with motion activated visual alerts inform you when motion is detected (e.g. when someone enters your store). No longer do you have to make a choice between continuous or motion recording option.

• *Video output resolution scaled up, auto adjusts to the connected monitor via HDMI connection (8 Channel Video only, 16 Channel Video and Audio). High definition recording not supported, recording resolution is limited to a maximum of 720 x 480 per channel. Image quality and resolution is dependent on the type of camera connected to the DVR.

• **8 channel up to 4 monitors, 16 channel up to 3 monitors (VGA/HDMI cannot be connected simultaneously).

ECO2 - GRAPHICAL USER INTERFACE
**DVR:**

**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 1Vpp, CVBS, 75ohms, BNC
- Video OUT: 2 x BNC
- VGA OUT: 4 ch: Yes, 8 ch: Yes, 16 ch: VGA port works only when HDMI is not used
- HDMI: 8 ch: Video only, 16 ch: Video and Audio
- Audio IN: 4 Line in(RCA), G.711(4&8 ch), 16 Line in(BNC), G.711(16 ch)
- Audio OUT: 2 line out(RCA), G.711(4&8 ch), 2 line out(BNC), G.711(16 ch)
- USB Port: 2 at the back
- Alarm IN: 4 ch: 4 ch IN, 8 ch: 4 ch IN, 16 ch: 16 ch IN
- Alarm OUT: 1 ch OUT
- Video Output Resolution: 800x600, 1024x768, 1280x1024, 1440x900, HDMI
- PTZ control: RS-485 Pelco D & P Protocol
- Display:
  - Live Display: 4 ch: 1, 4, 8, 16 ch: 1, 4, 9, 16
  - Live Display Speed: 120 (4 ch)/ 240 (8 ch)/ 480 (16 ch) NTSC, 100 (4 ch)/ 200 (8 ch)/ 400 (16 ch) PAL
- OSD: ON/OFF
- System Navigation: USB Mouse, IR Remote Controller, Front Panel
- Motion Area Setting:
  - 4 ch: Adjustable grid (10 x15) NTSC
  - 8 ch: Adjustable grid (12 x15) PAL
- Sensitivity levels: 8
- Firmware Upgrade: 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: 360x240 (CIF), 720x240 (HD1), 720x480 (D1) PAL: 360x288 (CF), 720x288 (HD1), 720x576 (D1)
- Recording Speed:
  - 4 ch: 120/100 (NTSC/PAL) @ CIF, HD1, 60/50 (NTSC/PAL) @ D1
  - 8 ch: 240/200 (NTSC/PAL) @ CIF, 120/100(NTSC/PAL) @ HD1, 60/50 (NTSC/PAL) @ D1
  - 16 ch: 480/400 (NTSC/PAL) @ CIF, 240/120(NTSC/PAL) @ HD1, 120/100 (NTSC/PAL) @ D1
- Recording Resolution Setting: Per camera for different resolutions (CIF/2CIF/D1)
- Recording Quality Control: 3 levels
- Recording Schedule: By hour, by day, by recording mode, by alarm, by ch
- Pre Recording: Max. 10 Secs
- Post Recording: Max. 5 Minutes
- Reliability: Watch-Dog, Auto-recovery after power failure
- Covert Video: Yes

**PLAYBACK**
- Playback Channel: 1–4 Adjustable(4 ch), 1–8 Adjustable (8 ch), 1–16 Adjustable (16 ch)
- Playback Speed: Variable Max. 16x
- Playback Players: Backup Player
- Search: By time & event
- Log Search: Up to 10,000,000 lines for alarm activated, motion detected, configuration changes, connects/disconnects and video loss.
- Audio Play: Yes

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

**CONNECTIVITY**
- Easy Connect: Lorex Auto Port Forward Wizard
- Supported Operating Systems:
  - 4/8/16 ch: Windows™ XP, Vista, 7
  - 4/8/16 ch: Mac OSX Snow Leopard 10.6 or above
- Browsers: Internet Explorer & Safari 5.1
- Email notification: Test with snapshot
- Instant Smart Phone Compatibility†: Smart Phone & Tablet Compatibility: iPad™, iPhone™, BlackBerry (supported model numbers: 9000, 9700, 9800), Windows Mobile (6.0, 6.5), Symbian 3rd & 5th generation phones.
- 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:
  - 4 & 8 ch: Approx. 10 watts
  - 16 ch: Approx. 15 watts
- Supply Voltage:
  - 4 & 8 ch: 100VAC-240VAC, 12VDC, 3A, 50/60Hz
  - 16 ch: 100VAC-240VAC, 12VDC, 5A, 50/60Hz
- Unit Dimensions:
  - 4 & 8 ch: 11.81” x 8.66” x 1.97” (H x W x D)
  - 16 ch: 14.96” x 13.39” x 1.97” (H x W x D)
- Unit Weight (KGs):
  - 4 & 8 ch: 1.7 kg/3.75 Lbs
  - 16 ch: 3 kg/6.6 Lbs
- Operating temperature: 32° – 104° F / 0° – 40° C
- Humidity: 10 – 90% NC

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*† Smart Phone & Tablet Compatibility is limited to the models listed above.*
Back Panel:

8 Channel

16 Channel

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>LH138501</td>
<td>8 ch DVR x 500GB HDD</td>
<td>Retail</td>
<td>425mm x 100mm x 270mm/16.7” x 3.9” x 10.6”</td>
<td>2.9kg/6.4lbs</td>
<td>0.011m / 0.4ft</td>
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<td>LH136501</td>
<td>16 ch DVR x 500GB HDD</td>
<td>Retail</td>
<td>480mm x 95mm x 370mm/18.9” x 3.7” x 14.5”</td>
<td>4.5kg/10lbs</td>
<td>0.017m / 0.6ft</td>
<td>7-78597-13601-2</td>
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<td>LH1361001</td>
<td>16 ch DVR x 1TB HDD</td>
<td>Retail</td>
<td>480mm x 95mm x 370mm/18.9” x 3.7” x 14.5”</td>
<td>4.6kg/10.35lbs</td>
<td>0.017m / 0.6ft</td>
<td>7-78597-13602-9</td>
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Includes DVR with Pre-Installed HDD, Remote Control, Power adapter, Mouse, Ethernet Cable, Documentation & Software CD, QSG, Instruction Manual.

Dimensions:

8 Channel DVR

16 Channel DVR

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].
   † Smart Phone & Tablet Compatibility: iPad™, iPhone™, BlackBerry (supported model numbers: 9000, 9700, 9800), Android (version 1.5 & above), Windows Mobile (6.0, 6.5), Symbian 3rd & 5th generation phones. Mobile phone data plan is required [not included]. Router port forwarding required. For the latest compatibility list check www.lorextechnology.com as new models become available in the market.

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