WATCH OVER YOUR WORLD
FROM ANYWHERE IN THE WORLD

MOBILE SURVEILLANCE
Connect and view your system on the go with your Tablet or Smartphone over a 3G/4G or WiFi network.†

SIMPLE YET ADVANCED
Record on a surveillance grade hard drive, designed for 24/7 operation providing weeks or even months of reliable recording.¹

SIMULTANEOUS MONITOR VIEWING
Connect to a TV, PC, or CCTV monitors with industry standard VGA & BNC inputs.

EASY SYSTEM NAVIGATION
Intuitive menu options with simple icons allow for fast and efficient DVR programming.

24/7 RELIABLE RECORDING
REAL-TIME WIRELESS VIDEO
VIEW FROM PC, MAC, TABLET & SMARTPHONE

REMOTE CONNECTIVITY & COMPATIBILITY*

VANTAGE
LH010W ECO BLACKBOX Series

www.lorextechnology.com
DIGITAL VIDEO RECORDER:

- H.264 video compression¹
- Real time recording: 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

WHAT’S INSIDE IN THE DVR BOX:

- DVR with pre-installed HDD*
- Easy-to-follow setup instruction guide and manual
- ALSO INCLUDES: Remote Control, Power Adapter, Mouse, Ethernet Cable.
WIRELESS CONVENIENCE WITHOUT COMPROMISE

- THE ALTERNATIVE TO WIRED CAMERAS
- REAL TIME WIRELESS VIDEO
- SIGNAL GUARD TECHNOLOGY
- SAVE TIME AND MONEY ON INSTALLATION

LONG RANGE NIGHT VISION
AUTO-MECHANICAL INFRARED FILTERING TECHNOLOGY

135FT Ambient Lighting
90FT Total Darkness
Typical
Accurate color reproduction in varying lighting conditions

VANTAGE LH010W ECO BLACKBOX Series

www.lorextechnology.com
SUPER SMOOTH VIDEO
Transmit video in real-time at 30 frames per second with the latest wireless technology.

WIRELESS FRIENDLY
Minimizes conflicts with competing wireless signals with next generation interference reduction technology.

IDEAL ADD-ON CAMERA
Compliments your home or business surveillance system with extended range and flexibility.

WIRELESS FREEDOM
Easy set up. Simply power up pre-paired wireless receiver and cameras.

FEATURES
- Real-time (30fps) wireless video with MPEG-4 compression @ 640x480 (VGA) resolution
- Extended bandwidth delivers super smooth high frame rate video
- SignalGuard™ Technology continuously monitors the wireless signal and automatically reconnects upon detecting low signal strength
- Next generation adaptive Frequency Hopping Spread Spectrum (FHSS) technology greatly reduces signal interference
- Built-in auto-mechanical infrared camera filter achieves accurate color reproduction in varying lighting conditions
- 2 channel receiver for separate wireless video channels to your DVR minimizes cable clutter
- Night vision range up to 135ft (41m) / 90ft (27m)
- Simple installation. No video cable required
- Weatherproof camera and power connectors, can be installed indoors or outdoors
- Easily connects to any surveillance DVR (BNC)
- High gain antennas provide up to 165ft (50m) indoor / 500ft (152m) outdoor wireless range
- Vandal resistant camera design with cable pass-through mounting brackets
**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**: 4/8/16 ch: 2 x BNC, 16 ch: 1 x BNC
- **VGA OUT**: 4/8/16 ch: Yes
- **Audio IN**: 4/8/16 ch: 1 line in[CA], G.711
- **Audio OUT**: 4/8/16 ch: 1 line out[CA], G.711
- **USB Port**: 1 at the back for Mouse, 1 at the front for firmware upgrade & USB backup
- **Video Output Resolution**: 800x600, 1024x768, 1280x1024
- **PTZ control**: RS-485 Pelco D & P Protocol

**Display**

- **Live Display**: 4 ch: 1, 4, 8, 16 ch: 1, 4, 8, 16
- **Live Display Speed**: 120 (4 ch)/ 240 (8 ch)/ 480 (16 ch) NTSC
- **OSD**: ON/OFF
- **System Navigation**: USB Mouse, IR Remote Controller
- **Motion Area Setting**: Adjustable grid (10 x15) NTSC
- **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**: 4/8/16 ch: NTSC: 360x240 [CIF], 720x240 [HD1], 720x480 [D1]
- **Recording Speed**: 4 ch: 120/100 [NTSC/PAL] @ D1, 60/50 [NTSC/PAL] @ D1
- **Recording Resolution Setting**: Per camera for different resolutions (CIF/2CIF/D1), 16 ch CIF only
- **Recording Quality Control**: 3 levels
- **Recording Schedule**: By hour, by day, by recording mode, by motion, by channel
- **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 times for motion detected, configuration changes, connects/disconnects and video loss.
- **Audio Play**: Yes

**STORAGE & ARCHIVE**

- **Storage**: 4/8/16 ch: Up to 3 HDD’s (SATA)
- **Maximum Capacity**: 4/8/16 ch: Up to 2TB
- **Backup Media**: USB Flash Drive & HDD
- **Backup File Format**: H.264 file [AVI generator included]
PRODUCT INFORMATION

DVR Inputs & Outputs

4 Channel DVR

Product Information:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CONFIGURATION</th>
<th>PACKAGE</th>
<th>W x D x H - Inches &amp; mm</th>
<th>WEIGHT</th>
<th>CUBE</th>
<th>UPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>LH014501C4WF</td>
<td>4 ch Eco Blackbox DVR with 500GB HDD, 2 x LW2232PK2B</td>
<td>Universal Retail Box</td>
<td>440mm/17.3&quot; x 285mm/11.3&quot; x 105mm/4.1&quot;</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>DVR (LH014501)</td>
<td>Includes</td>
<td>4 Ch DVR with 500 GB HDD, Remote Control, Power Adapter, Mouse, Ethernet Cable, CD, QSG, Instruction Manual.</td>
<td></td>
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<tr>
<td>WIRELESS (LW2232PK2B)</td>
<td>Includes</td>
<td>4 x Indoor/outdoor cameras, 2 x Wireless receiver, 6 x Power adapters, 8 x Antennas.</td>
<td></td>
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</tbody>
</table>

Dimensions:

DVR

Dimensions:

300mm/11.8” W

220mm/8.6” D

50mm/1.9” H

WIRELESS

160mm/6.2”

265mm/10.3”

75mm/3”

45mm/1.8”

98mm/3.9”

TBD

TBD

TBD

TBD

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).
3. At full signal strength. Limit number of obstructions to ensure best performance.
4. Stated IR illumination ranges are based on ideal conditions in total darkness and typical outdoor nighttime ambient lighting. Actual range and image clarity depends on installation location, viewing area and light reflection/absorption level of object.
5. Camera and receiver requires a wired connection to an electrical outlet (power adaptors included).
7. Maximum wireless transmission range. Actual range dependent upon building materials and other obstructions in path of wireless signal.
   * Using multiple receivers in close proximity to each other may cause a slowdown in frame rate performance.
   * BlackBox is used solely as a marketing term and does not imply that the product can survive fire or extreme conditions. Use product in accordance with the instructions provided.
   * Number of Channels/ Cameras/ Accessories/ HDD (hard disk drive) capacity may vary by model. Check your package label for specific content information.

† 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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Lorex Technology Inc.

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