VIEW YOUR WORLD IN FULL 1080p HD

Experience true 1080p high definition security video that captures every detail. Stay connected wherever you go with free smartphone and tablet apps.

LHA2100 Series DVRs

4/8/16 Channels 1-6TB, 1080p

www.lorextechnology.com
FEATURES:

- True 1080p recording on all cameras
- 24/7 security-grade pre-installed hard drive
- Continuous, scheduled, and motion recording
- H.264 video compression reduces data bandwidth requirements for efficient data storage, reduced network load for easy remote connectivity
- HDMI output (HDMI cable included) for simple connection to HD TVs
- Accurate time stamps with NTP & daylight savings time
- Click and drag digital zoom in live view and playback
- 2 video outputs (HDMI & VGA) to connect multiple monitors
- Instant USB backup of live video from selected camera
- Automatic firmware upgrade over the Internet ensures your system is secure and up to date
- FLIR Secure™ or Lorex Secure™ app with 3-Step setup connects all your cameras and systems from any iOS or Android smartphone or tablet
- Motion push notifications and email alerts
- Dual streaming to conserve bandwidth
- Backward compatible with standard analog cameras

USE ONE APP TO WATCH IT ALL

Get set up in an instant and stay connected with the FLIR Secure™ or Lorex Secure™ app. Enjoy remote live viewing, review videos, and get important motion and sound alerts on-the-go. The app connects all your cameras and systems from any iOS or Android smartphone or tablet.
**SYSTEM**

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

**INPUTS/OUTPUTS**

- **Video IN**: 4/8/16 x 1Vpp, CVBS, 75ohms, BNC
- **Video OUT**: No
- **VGA OUT**: Yes
- **HDMI**: Yes
- **Audio IN**: 4 lines IN (RCA)
- **Audio OUT**: 1 line OUT (RCA)
- **USB Port**: 1 at the back, 1 at the front
- **Alarm IN**: None
- **Alarm OUT**: None
- **Video Output Resolution**: 4/8/16 ch: HDMI: 1920x1080; 1440x900; 1280x1024; 1280x720; 1024x768
- **PTZ control**: PTZ control RS-485 Pelco D & P Protocol

**DISPLAY**

- **Live Display**: 4 ch: 1, 4, 8 ch: 1, 4, 8, 9, 16 ch: 1, 4, 8, 9, 16
- **Live Display Speed**: 4 ch: 120 NTSC, 100 PAL, 8 ch: 240 NTSC, 200 PAL, 16 ch: 480 NTSC, 400 PAL
- **OSD**: ON/OFF
- **System Navigation**: USB Mouse, IR Remote Controller, Front Panel
- **Motion Area Setting**: Fixed Grid NTSC (44x30) / PAL (44x36)
- **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**: 1080p/720p/960H (NTSC)
- **Recording Frame Rate**: 1080p/15fps, 720p/960H 30fps
- **Recording Resolution Setting**: Per camera for different resolutions
- **Recording Quality Control**: 6 levels
- **Recording Schedule**: By hour, by day, by recording mode, by motion, by channel
- **Pre Recording**: Max. 2 Secs
- **Post Recording**: Max. 5 Minutes
- **Reliability**: Watch-Dog, Auto-recovery after power failure
- **Covert Video**: Yes

**PLAYBACK**

- **Playback Channel**: 4 ch: 1 / 4, 8 ch: 1 / 4 / 8, 16 ch: 1 / 4 / 9 / 16
- **Playback Speed**: Variable Max 16x
- **Playback Players**: Backup Player
- **Search**: By Date/Time & Motion Event
- **Log Search**: Up to 4000 lines for system, configuration changes, motion/alarm detected, account, record & storage
- **Audio Play**: Yes

**STORAGE & ARCHIVE**

- **Storage**: 4/8/16ch: Up to 1 HDD (SATA)
- **Maximum Capacity**: 4/8/16ch: Up to 1 x 6TB
- **Backup Media**: USB Flash Drive & HDD
- **Backup File Format**: H.264 / MP4 / AVI file

**CONNECTIVITY**

- **Cloud Connection**: FLIR Secure™ or Lorex Secure™ app with FLIR Cloud™ Connectivity
- **Supported Operating Systems**: Windows™ / Mac OSX with FLIR Cloud app
- **Remote Software**: Client Software (PC) & Safari (Mac)
- **Email notification**: Text with snapshot
- **Instant Smart Phone & Tablet Support**: iPad®, iPhone®, Android™
- **DDNS**: None
- **System Configuration**: Full setup configuration over network
- **Network**: Programmable by User
- **Network Protocol**: HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP
- **Filter Network Interface**: 1/100 Base-TX, RJ45
- **Network Speed Control**: Max 64Mbps

**GENERAL**

- **Power Consumption**: Approx. 7.08 watts (no HDD included)
- **Supply Voltage**: 100VAC-240VAC, 12VDC, 2A, 50/60Hz
- **Unit Dimensions**: 4/8/16ch: 12.” × 8.3” × 2.0”, 310mm × 210mm × 50mm
- **Unit Weight (KGs)**: 4/8/16ch: 2.6lb / 1.2kg (without hard drive)
- **Operating temperature**: 14°F ~ 130°F / -10°C ~ 55°C
- **Humidity**: 10 ~ 90% RH

**RECORDING RESOLUTION (PIXELS) & SPEED (FPS - FRAMES PER SECOND)**

<table>
<thead>
<tr>
<th></th>
<th>2MP (1080p)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4ch</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>1920x1080</td>
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<tr>
<td>Per channel</td>
<td>60/50</td>
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<tr>
<td>8ch</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>120/100</td>
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<tr>
<td>Per channel</td>
<td>15/12</td>
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<tr>
<td>16ch</td>
<td></td>
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<tr>
<td>Total</td>
<td>240/200</td>
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<tr>
<td>Per channel</td>
<td>15/12</td>
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</table>
HIGH DEFINITION 1080p SECURITY DIGITAL VIDEO RECORDER

Product Information:

DVR Inputs & Outputs

<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>
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</thead>
<tbody>
<tr>
<td>LHA21041T</td>
<td>4CH 1080p HD DVR WITH 1TB HDD</td>
<td>Brown Box</td>
<td>165 × 10.6 × 3.9’ 420 × 270 × 100mm</td>
<td>4.06 lb / 1.84 kg</td>
<td>0.6cft / 0.01cbm</td>
<td>6-95529-01239-1</td>
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<tr>
<td>LHA21081T</td>
<td>8CH 1080p HD DVR WITH 1TB HDD</td>
<td>Brown Box</td>
<td>165 × 10.6 × 3.9’ 420 × 270 × 100mm</td>
<td>4.06 lb / 1.84 kg</td>
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<td>LHA21162T</td>
<td>16CH 1080p HD DVR WITH 2TB HDD</td>
<td>Brown Box</td>
<td>165 × 10.6 × 3.9’ 420 × 270 × 100mm</td>
<td>4.06 lb / 1.84 kg</td>
<td>0.6cft / 0.01cbm</td>
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<tr>
<td>LHA21041TP</td>
<td>4CH 1080p HD DVR WITH 1TB HDD</td>
<td>Brown Box</td>
<td>165 × 10.6 × 3.9’ 420 × 270 × 100mm</td>
<td>4.06 lb / 1.84 kg</td>
<td>0.6cft / 0.01cbm</td>
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<td>LHA21081TP</td>
<td>8CH 1080p HD DVR WITH 1TB HDD</td>
<td>Brown Box</td>
<td>165 × 10.6 × 3.9’ 420 × 270 × 100mm</td>
<td>4.06 lb / 1.84 kg</td>
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<td>LHA21162TP</td>
<td>16CH 1080p HD DVR WITH 2TB HDD</td>
<td>Brown Box</td>
<td>165 × 10.6 × 3.9’ 420 × 270 × 100mm</td>
<td>4.06 lb / 1.84 kg</td>
<td>0.6cft / 0.01cbm</td>
<td>6-95529-01307-7</td>
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<tr>
<td>INCLUDES</td>
<td>DVR with Pre-Installed HDD, HDMI Cable, Remote Control, Power Adapter, Mouse, Ethernet Cable, Quick Start Guides.</td>
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Disclaimers:

1. Compatible with select 1080p & 720p cameras and standard analog cameras. For a list of compatible cameras please visit www.lorextechnology.com/compatibility
2. Recording time may vary based on recording resolution & quality, lighting conditions and movement in the scene.
3. HDMI output up to 1080p HD for high definition multi-channel live viewing only. Up to 1080p recording resolution is limited to a maximum of 1080p per channel. Image quality and resolution is dependent on the type of camera connected to the DVR.
4. Requires a high speed internet connection and a router (not included). A minimum upload speed of 3Mbps is required for the best video performance. Up to 2 devices may connect to the system at the same time.

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