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.
FEATURES:

• True 1080p recording on all cameras ¹
• 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 ²
• 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 ³
• FLIR Secure™ app with 3-Step setup connects all your cameras and systems from any iOS or Android smartphone or tablet ⁴
• Motion push notifications and email alerts
• Dual streaming to conserve bandwidth
• Backward compatible with standard analog cameras

FLIR SECURE—ONE APP TO WATCH IT ALL

Get set up in an instant and stay connected with the FLIR Secure™ app. Enjoy remote live viewing, review videos, and get important motion and sound alerts on-the-go. The FLIR Secure™ 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 Time/Date & 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® app with FLIR Cloud™ Connectivity
- **Supported Operating Systems**: Windows™ / Mac OS with FLIR Cloud app
- **Remote Software**: Client Software (PC) & Safari (Mac)
- **Email notification**: Test with snapshot
- **Instant Smart Phone & Tablet Support**: iOS®, iPhone®, Android™
- **DDNS**: None
- **System Configuration**: Full setup configuration over network
- **Ports**: Programmable by User
- **Network Protocol**: HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP, FTP, DDNS, FTP, IP
- **Filter Network Interface**: 10/100 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>CH</th>
<th>Resolution</th>
<th>Total FPS</th>
<th>Per Channel FPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 ch</td>
<td>1920x1080</td>
<td>60/50</td>
<td>15/12</td>
</tr>
<tr>
<td>8 ch</td>
<td>120x1080</td>
<td>120/100</td>
<td>15/12</td>
</tr>
<tr>
<td>16 ch</td>
<td>240x1080</td>
<td>240/200</td>
<td>15/12</td>
</tr>
</tbody>
</table>

**LHA2100 Series DVRs**

www.lorewtechnology.com
**DVR Inputs & Outputs**

8 Channel DVR

16 Channel DVR

*4 Channel DVR will have respective number of video inputs.

**Dimensions:**

![Dimensions Diagram]

**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>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>185 × 10.8 × 3.9” 420 × 270 × 100mm</td>
<td>4.06 lb / 1.84 kg</td>
<td>0.6cft / 0.01cbm</td>
<td>6-95529-01061-8</td>
</tr>
<tr>
<td>LHA21162T</td>
<td>16CH 1080P HD DVR WITH 2TB HDD</td>
<td>Brown Box</td>
<td>185 × 10.8 × 3.9” 420 × 270 × 100mm</td>
<td>4.06 lb / 1.84 kg</td>
<td>0.6cft / 0.01cbm</td>
<td>6-95529-01060-1</td>
</tr>
</tbody>
</table>

INCLUDES DVR with Pre-Installed HDD, HDMI Cable, Remote Control, Power Adapter, Mouse, Ethernet Cable, Quick Start Guides.

**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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