

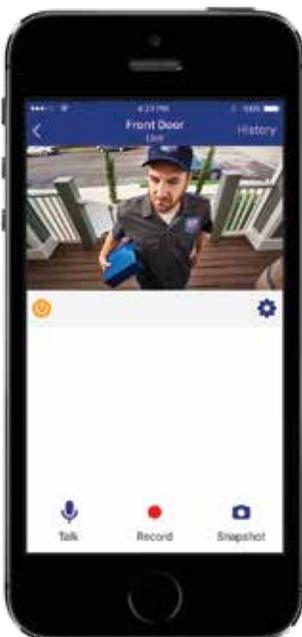
# LOREX<sup>®</sup>

# HIGH DEFINITION 1080p SECURITY DIGITAL VIDEO RECORDER



## 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.



4/8/16 Channels 1-6TB<sub>HDD</sub> 1080<sub>P</sub>

**FEATURES:**

- True 1080p recording on all cameras <sup>1</sup>
- 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 <sup>2</sup>
- 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 <sup>3</sup>
- FLIR Secure™ or Lorex Secure™ app with 3-Step setup connects all your cameras and systems from any iOS or Android smartphone or tablet <sup>4</sup>
- 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	<b>4 ch:</b> 1, 4 <b>8 ch:</b> 1, 4, 8, 9 <b>16 ch:</b> 1, 4, 8, 9, 16
Live Display Speed	<b>4 ch:</b> 120 NTSC, 100 PAL <b>8 ch:</b> 240 NTSC, 200 PAL <b>16 ch:</b> 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	<b>4 ch:</b> 1 / 4 <b>8 ch:</b> 1 / 4 / 8 <b>16 ch:</b> 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 6TBB
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	<b>Windows™</b> / <b>Mac</b> 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
Ports	Programmable by User
Network Protocol	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP
FilterNetwork Interface	10/100 Base-TX, RJ-45
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." x 8.3" x 2.0" 310mm x 210mm x 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)

		<b>2MP (1080p)</b>
		1920x 1080
<b>4ch</b>	Total	60/50
	Per channel	15/12
<b>8ch</b>	Total	120/100
	Per channel	15/12
<b>16ch</b>	Total	240/200
	Per channel	15/12

### DVR Inputs & Outputs

#### 8 Channel DVR



#### 16 Channel DVR



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

### Dimensions:

#### DVR



### Product Information:

MODEL	CONFIGURATION	PACKAGE	W x D x H Inches & mm	WEIGHT	CUBE	UPC Code
LHA21041T	4CH 1080P HD DVR WITH 1TB HDD	Brown Box	16.5 × 10.6 × 3.9" 420 × 270 × 100mm	4.06 lb / 1.84 kg	0.6cft / 0.01cbm	6-95529-01239-1
LHA21081T	8CH 1080P HD DVR WITH 1TB HDD	Brown Box	16.5 × 10.6 × 3.9" 420 × 270 × 100mm	4.06 lb / 1.84 kg	0.6cft / 0.01cbm	6-95529-01061-8
LHA21162T	16CH 1080P HD DVR WITH 2TB HDD	Brown Box	16.5 × 10.6 × 3.9" 420 × 270 × 100mm	4.06 lb / 1.84 kg	0.6cft / 0.01cbm	6-95529-01060-1
LHA21041TP	4CH 1080P HD DVR WITH 1TB HDD	Brown Box	16.5 × 10.6 × 3.9" 420 × 270 × 100mm	4.06 lb / 1.84 kg	0.6cft / 0.01cbm	6-95529-01308-4
LHA21081TP	8CH 1080P HD DVR WITH 1TB HDD	Brown Box	16.5 × 10.6 × 3.9" 420 × 270 × 100mm	4.06 lb / 1.84 kg	0.6cft / 0.01cbm	6-95529-01306-0
LHA21162TP	16CH 1080P HD DVR WITH 2TB HDD	Brown Box	16.5 × 10.6 × 3.9" 420 × 270 × 100mm	4.06 lb / 1.84 kg	0.6cft / 0.01cbm	6-95529-01307-7
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](http://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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