



DIGITAL VIDEO SURVEILLANCE RECORDER

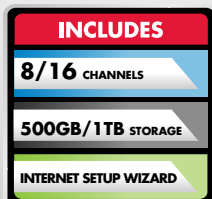
WATCH OVER YOUR WORLD FROM ANYWHERE IN THE WORLD

ECO2



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



VANTAGE

LH130 ECO2 SERIES

www.lorextechnology.com



DIGITAL VIDEO SURVEILLANCE RECORDER

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 specially 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.



CONNECTIVITY & COMPATIBILITY[†]



* For the latest compatibility list & free App download[†] check www.lorextechnology.com

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 Wizard²
- 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

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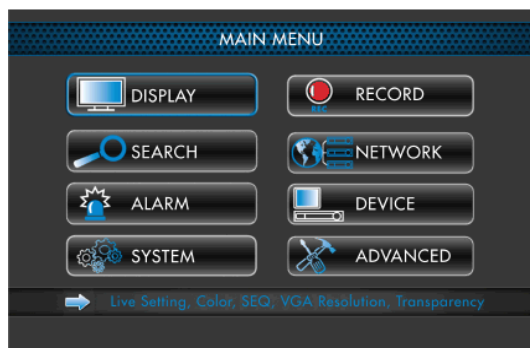


DIGITAL VIDEO SURVEILLANCE RECORDER

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



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SPECIFICATIONS

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 1Vp-p, 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	RS485 Pelco D & P Protocol

Display

Live Display	4 ch: 1, 4 8 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	Adjustable grid (10 x15) NTSC 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 (CIF), 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 10,00,000 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	Text with snapshot
Instant Smart Phone Compatibility†	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.

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	10/100Base-TX, RJ45
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 (W x D x H)	4 & 8 ch: 11.81"/300mm x 8.66"/220mm x 1.97"/50mm 16 ch: 14.96"/380mm x 13.39"/340mm x 1.97"/50mm
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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PRODUCT INFORMATION

Back Panel:

8 Channel



16 Channel

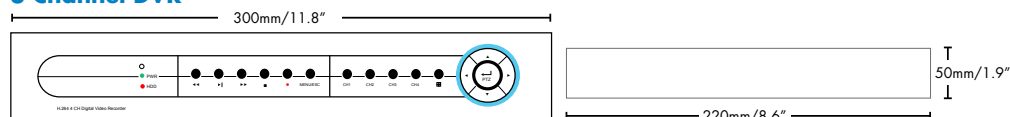


Product Information:

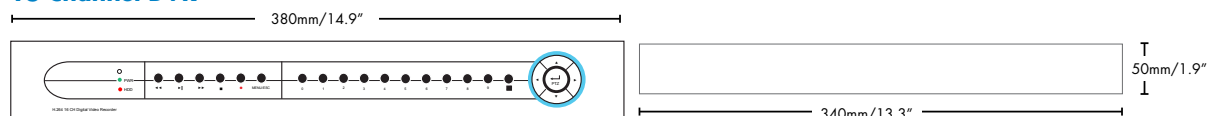
MODEL	CONFIGURATION	PACKAGE	W x D x H in & mm	WEIGHT	CUBE	UPC Code
LH138501	8 ch DVR x 500GB HDD	Retail	425mm x 100mm x 270mm/ 16.7" x 3.9" x 10.6"	2.9kg/6.4lbs	0.011m / 0.4ft	7-78597-13801-6
LH136501	16 ch DVR x 500GB HDD	Retail	480mm x 95mm x 370mm/ 18.9" x 3.7" x 14.5"	4.5kg/10lbs	0.017m / 0.6ft	7-78597-13601-2
LH1361001	16 ch DVR x 1TB HDD	Retail	480mm x 95mm x 370mm/ 18.9" x 3.7" x 14.5"	4.6kg/10.35lbs	0.017m / 0.6ft	7-78597-13602-9
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:

- Recording time may vary based on recording resolution & quality, lighting conditions and movement in the scene.
 - 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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