LOREX®
VIEW YOUR WORLD™

DIGITAL VIDEO SURVEILLANCE RECORDER

WATCH OVER YOUR WORLD—
FROM ANYWHERE IN THE WORLD.

THE ECONOMICAL SECURITY SOLUTION IDEAL FOR HOME OR BUSINESS.

- INSTANT MOBILE VIEWING
- HIGH STORAGE CAPACITY
- REAL-TIME RECORDING
- PENTAPLEX OPERATION
- EASY CONNECT WIZARD

VANTAGE

LH110 ECO SERIES

www.lorextechnology.com

LOREX®
VIEW YOUR WORLD™

DIGITAL VIDEO SURVEILLANCE RECORDER

PROFESSIONAL-GRADE VIDEO SURVEILLANCE
Record continuously for weeks, or months with motion activated recording.

RELIABILITY YOU CAN DEPEND ON
For high quality viewing and playback.

VERSATILE SOLUTION
Connect to a PC monitor or a TV, up to 3 monitor simultaneously.

WATCH FROM YOUR SMART PHONE
And get instant email alerts!

Monitor not included

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

** Firmware upgrade available at www.lorextechnology.com Make sure the DVR has the latest firmware installed to enable Mac remote viewing.

DIGITAL VIDEO RECORDER:
- 4/8/16 channel digital video recorder
- H.264 compression video compression[1]
- Real time recording @ 360 x 240 resolution
- Pentaplex operation - View, Record, Playback, Back Up & Remotely Control the system simultaneously
- 24/7 100% Duty cycle hard drive pre-installed

CONNECTIVITY:
- Instant Mobile Viewing on compatible Smart phones†
- Exclusive LOREX Easy Connect Internet Set-up Wizard [2]
- PC (Microsoft Windows™ 7/Vista/XP) compatible using Internet Explorer® browser
- Free LOREX DDNS (Dynamic Domain Name Service) for advanced remote connectivity at all times
- Instant email alerts

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, Audio Harness Cable (16 channel only), CD

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/DIN
Video OUT	2 x BNC
VGA OUT	Yes
Audio IN	4 Line in(RCA), ADPCM(4&8 ch), 16 Line in(BNC), ADPCM(16 ch)
Audio OUT	2 line out(RCA), ADPCM(4&8 ch), 2 line out(BNC), ADPCM(16 ch)
USB Port	2 at the back
Alarm IN	16 ch IN (available in 16 ch only)
Alarm OUT	16 ch OUT (available in 16 ch only)
PTZ control	RS-485 Pelco D & P Protocol
Display	
Live Display	**4 ch:** 1,4 **8 ch:** 1, 4, 8 **16 ch:** 1, 4, 8, 16
Live Display Speed	120 (4 ch)/ 240 (8 ch)/ 240 (16 ch) NTSC 100 (4 ch)/ 200 (8 ch)/ 200 (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
User Authority	By user group
Time Synchronization	Auto time sync by NTP server
RECORDING	
Video Compression	H.264
Audio Compression	ADPCM
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, 60/50(NTSC/PAL) @ HD1, 30/25 (NTSC/PAL) @ D1 **8 ch:** 240/200 (NTSC/PAL) @ CIF, 120/100(NTSC/PAL) @ HDI, 60/50 (NTSC/PAL) @ D1 **16 ch:** 480/400 (NTSC/PAL) @ CIF, 240/120(NTSC/PAL) @ HDI, 120/100 (NTSC/PAL) @ DI
Recording Resolution Setting	Per camera for different resolutions (CIF/2CIF/D1)
Recording Quality Control	3 levels
Image Size	768-1536 Kbyte (D1), 512-768 Kbyte (HD1) , 384-512 Kbyte (CIF)
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 (4 ch), 1,4,8 (8 ch), 1,4,8,16 (16 ch)
Playback Speed	Variable Max 16x
Playback Players	Backup Player
Search	By time & event
Log Search	Up to 10,000 lines for user login/out, configuration changes, remote access, connects/disconnects
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 2 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 ch: Mac** OSX Snow Leopard 10.6
Browsers	Internet Explorer & Safari 5.0
Email notification	Text with snapshot
Instant Smart Phone Compatibility†	Instant Smart Phone Compatibility on iPhone™, BlackBerry (supported model numbers: 9700, 9000), Android (version 1.5 & above), Window 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	LAN, DHCP, Dynamic IP, DDNS
Network Interface	10/100-Base-TX, RJ-45
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 x13.39"/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

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. PC (Microsoft Windows™ 7/Vista/XP) compatible using Internet Explorer browser. Mac OSX Snow Leopard 10.6 using Safari browser 5.0.

† Instant Smart Phone Compatibility on iPhone™, BlackBerry (supported model numbers: 9700, 9000), Android (version 1.5 & above), Window Mobile (6.0, 6.5), Symbian 3rd & 5th generation phones. Selectable one channel live viewing. Mobile phone data plan is required (not included). Router port forwarding required. For the latest smart phone compatibility list check www.lorextechnology.com as new smart phone models become available in the market.

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PRODUCT INFORMATION

Back Panel:

4 Channel

16 Channel

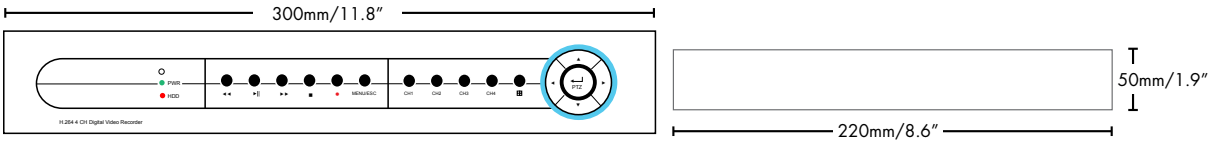
8 Channel

Product Information:

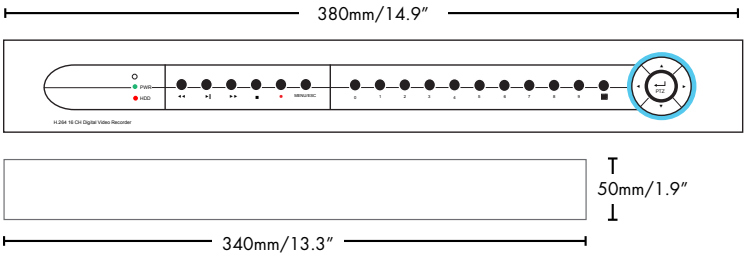
MODEL	CONFIGURATION	PACKAGE	W x D x H in & mm	WEIGHT	CUBE	UPC Code
LH114501	4 ch DVR x 500GB HDD	Retail	425mm x 100mm x 270mm/ 16.7″ x 3.9″ x 10.6″	2.9kg/6.4lbs	0.011m / 0.4ft	7-78597-11401-0
LH118501	8 ch DVR x 500GB HDD	Retail	425mm x 100mm x 270mm/ 16.7″ x 3.9″ x 10.6″	2.9kg/6.4lbs	0.011m / 0.4ft	7-78597-11801-8
LH1161001	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	7-78597-11604-5
Includes	DVR with Pre-Installed HDD, Remote Control, Power adapter, Mouse, Ethernet Cable, Audio Harness Cable (only with 16 ch DVR) CD, QSG, Instruction Manual.					

Dimensions:

4/8 Channel DVR



16 Channel DVR



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