



HOME & BUSINESS SECURITY

# INTERNET & MOBILE CONNECTIVITY, H.264, DAY/NIGHT, 4x4 SECURITY CAMERA SYSTEM



Instant  
Mobile  
Viewing



Access anytime on any device<sup>†</sup>



iPhone



BlackBerry™  
& compatible 3G Smartphones<sup>†</sup>



PC



Mac

**LOREX**  
CONNECT. PROTECT.

LH600 "Access" Series

COMPONENT SURVEILLANCE SYSTEM

[www.lorextechnology.com](http://www.lorextechnology.com)

# INTERNET & MOBILE CONNECTIVITY, H.264, DAY/NIGHT, 4x4 SECURITY CAMERA SYSTEM

## Digital Video Recorder:

- H.264 compression supports D1 (704x480) resolution video recording <sup>1</sup>
- Pentaplex operation - View, Record, Playback, Back up & Remotely control the system simultaneously
- DVI (with VGA converter) & BNC outputs for display on PC or TV monitor
- 24/7 100% duty cycle hard drive pre-installed, expandable up to 2TB
- Back-up critical images to USB media: flash drive, external HDD
- GUI with mouse navigation for easy set-up and programming

Front Panel



Back Panel



## Connectivity:

- LOREX Instant Mobile Viewing on iPhone™, Blackberry™, Windows® Mobile, Android™ and other compatible 3G smart phones†
- Exclusive LOREX Easy Connect Internet Set-up Wizard <sup>2</sup>
- PC (Microsoft Windows™ 7/Vista/XP compatible) using Internet Explorer® browser
- Apple Mac compatible <sup>3</sup> using the Safari browser for selectable single channel live viewing
- Free LOREX DDNS (Dynamic Domain Name Service) for advanced remote connectivity at all times
- Instant email alerts

## 9" LCD Monitor (included with LH604501C4L9 Model):

- 9" LCD Color Monitor
- Wall / Counter mountable
- BNC to RCA cable included (to connect the DVR to the monitor)



## CVC6930 Cameras:

- Resolution: 420 TV Lines
- 18 IR LEDs provides night vision range of 40ft (12m) <sup>5</sup>
- True Day/Night operation using built-in IR Filter Changeable Mechanism to achieve accurate color representation in changing lighting conditions
- Advanced Day/Night mode: picture automatically switches to B&W delivering better clarity in low light conditions
- Weatherproof Design: ideal for Outdoor and Indoor applications (IP66) <sup>6</sup>
- Ceiling, wall or counter mountable with versatile stand

## SG7530 Cameras:

- High Resolution Image Sensor
- IR Cut Filter provides accurate color reproduction in all lighting conditions
- 18 High Intensity IR LEDs provide effective night vision range up to 50 ft. (15 m) <sup>7</sup>
- Day/Night mode: Picture automatically switches to B&W delivering better clarity in low light conditions
- Weatherproof cameras ideal for indoor and outdoor applications (IP66) <sup>8</sup>
- A single 4-in-1 power adaptor provides power to all 4 cameras
- Industry standard BNC termination
- 60 ft. (18 m) extension cable included per camera
- Ceiling, counter or wall mountable camera with versatile stand provides flexible mounting options



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# DVR Specifications:

## SYSTEM

Operating System	Linux (embedded)
Pentaplex	Simultaneous View, Record, Playback, Backup & Remote Monitoring
Number of Channels	4 Channel
<b>Inputs/Outputs</b>	
Video IN	4 x 1Vp-p, CVBS, 75ohms, BNC
Video Out	BNC
Spot Out	BNC
DVI Out	DVI to VGA converter included
Audio IN	1 Line in(RCA), CODEC:G.711
Audio Out	1 line out(RCA), CODEC:G.711
USB Port	2 - front & back
Alarm IN	4 x TTL, programmable as NC/NO
Alarm Out	1 x Relay with NO/NC contact; 24VDC/2A, 120VAC/2.0A resistive
PTZ control	RS485
Keyboard Control	RS485 compatible

## Display

Live Display	1 or 4
Live Display Speed	120/100 fps (4ch)
OSD	ON/OFF
System Navigation	USB Mouse, Remote Control, Front Panel, Virtual Keyboard control, Quick Setup
Border Color	ON/OFF
Sensitivity levels	10
Motion Area Setting	Adjustable grid (11 x 8), 10 steps sensitivity level
Firmware Upgrade	Via USB device
Configuration Export & Import	Via USB
User Authority	ADMIN/MANAGER/USER
Audio	2-way Audio conference (via network)

## RECORDING

Video Compression	H.264
Audio Compression	G.711
Recording Speed	120/100 fps (CIF), 60/50 fps (2CIF) (4 Ch)
Recording Resolution	120/100 (NTSC/PAL) @ 352x240 (CIF) 60/50 (NTSC/PAL) @ 704x 240 (2 CIF) 30/25 (NTSC/PAL) @ 704x 480 (D1)
Recording Resolution Setting	By each camera for different resolution setting (CIF/2CIF/D1)
Recording Quality Control	4 levels (low/standard/high/highest)
Image Size	2-3 Kbyte (352x240), 4-9 Kbyte (704x240) 5-15 Kbyte (704x480)
Recording Schedule	By hour, by day, by recording mode, by alarm, by Ch
Pre Recording	Max.5 seconds
Post Recording	Max. 180 seconds
Alarm Recording	Programmable per camera
Panic Recording	Overrides all other recording settings to provide the best quality recording
S.M.A.R.T Alarm	HDD Health check
Reliability	Watch-Dog, Auto-recovery after power failure
Covert Video	Yes

## PLAYBACK

Playback Channel	1,4 (4ch)
Instant Playback	Instant playback mode for quick review of log events
Playback Speed	Variable playback (Max. 64x)
Playback Players	Backup player, Windows Media Player (after installing the codec)
Calendar Search	Search by time
Event Search	Search by event
Log Search	Up to 1000 for user login/out, configuration changes, remote access, connects/disconnects

Audio Play	Synchronized with video
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## STORAGE & ARCHIVE

Storage	Up to 1 HDD's (SATA)
Maximum Capacity	Up to 2TB
Backup Media	USB (flash drive & HDD)
Backup File Format	AVI file (Codec included)
Watermark	Watermarked video & audio for security

## CONNECTIVITY

Easy Connect (required)	1. Built-in Auto Port Forwarding (UPnP router required) 2. Lorex Auto Port Forward Wizard
Software	Web browser
Supported Operating Systems	Windows™ XP, Vista, 7 and Apple Mac (via Safari browser)
Browsers	<b>I.E.:</b> Multi channel viewing playback and configuration. <b>Mozilla Firefox, Safari, Google Chrome:</b> Selectable single channel live viewing & configuration
Email notification	Text with web link

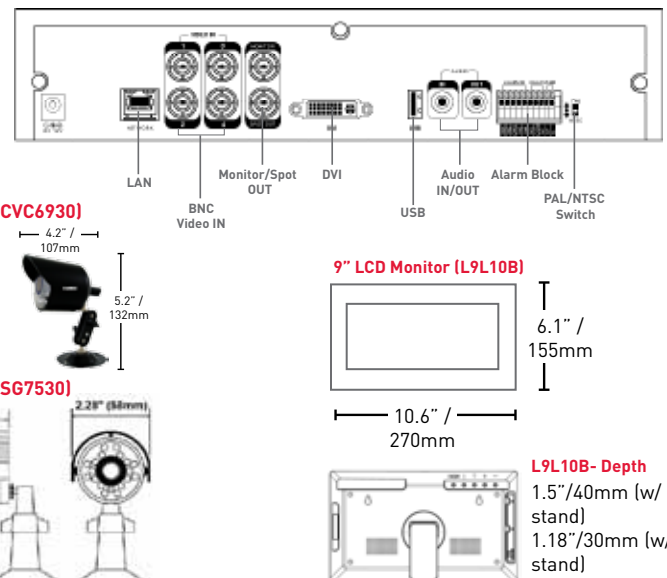
Mobile connectivity	Blackberry™, iPhone™, Windows Mobile™ 6.0, Android™ and above Smart phones (via Opera browser)
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DDNS	Free Lorex DDNS
System Configuration	Full setup configuration over network
Bandwidth Limit	Limited network bandwidth by user
Web Server Port	Programmable by User
Network Protocol	LAN, DHCP, Dynamic IP, DDNS
Network Interface	10/100-Base-TX, RJ-45
Network Speed Control	8 levels (56Kb ~ 8MB)/sec.

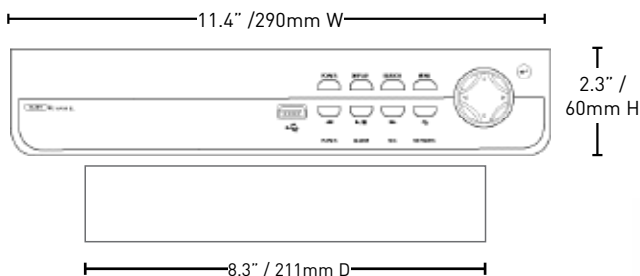
## GENERAL

Power Consumption	Approx. 18 watts
Supply Voltage	100V AC-240V AC, 12V DC , 3.3A, 50/60Hz
Unit Dimensions (W x D x H)	11.4" /290mm x 8.3"/211mm x 2.3"/60mm
Unit Weight	1.6 kg/3.5 lbs
Operating temperature	0° ~ 40° C
Humidity	10 ~ 90% NC

## DVR Back Panel:



## DVR Dimensions:



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Camera Specifications:

Model No. CVC6930:

Image Sensor:	1/4" Color Image Sensor
Video Format:	NTSC
Effective Pixels:	H: 640, V: 480
Resolution:	420 TV Lines
Scan System:	2:1 Interlace
Sync System:	Internal
S/N Ratio:	More than 40dB
Iris:	AES
AES Shutter Speed:	1/30~1/62,500 Sec
Minimum Illumination:	0.6 Lux without IR LED, 0 Lux with IR LED
Video Output:	Composite 1.0Vpp @ 75 ohm
Lens/ Lens Mount:	3.6m F1.8/Board Type
FOV (Diagonal):	64°
Termination:	BNC Type
IR LED/ Night Vision Range:	18 pieces / 940 nm / 40ft
Power Requirement:	12V DC
Power Consumption:	170 mA or 2W max
Operating Temp Range:	-10° ~ 50° C [-4°F ~ 122°F]
Environmental Rating:	IP 66

9"LCD Monitor Specifications:  
Model No. L9L10:

Display Type:	Color TFT LCD
Display Size:	9"
Resolution:	H:640 V:260 pixels
Audio Output:	Max 0.5W @ 8 ohm
Power Source:	12V DC
Power Consumption:	400 mA/4.8 W
Brightness:	500 cd/m²
Inputs:	1 x RCA Video Input, 1 x RCA Audio Input
Unit Dimensions (W x D x H)	10.6" /270mm x 1.5"/40mm x 6.1"/155mm with stand 10.6" /270mm x 1.18"/30mm x 6.1"/155mm without stand
Unit Weight:	0.6 kg/1.4 lbs

Model No. SG7530

Image Device:	1/4" Color Image Sensor
Effective Pixels:	H: 656, V: 492
Scan System:	2:1 Interlace, NTSC: 525 lines
Resolution:	Horizontal 450 TV Lines
AES Shutter Speed:	1/60~1/50,000 Sec
S/N Ratio:	More than 48dB (AGC off)
Sync System:	Internal
Mini Illumination:	3.0 Lux @F1.2 [no LED], 0 Lux [with LED]
IR LED/ Night Vision Range:	18 pieces / 850 nm / 50ft/15m
Video Output:	1.0Vp-p @ 75 ohms
White Balance:	AWB
Termination:	BNC
Lens:	Fixed Lens (3.6mm)
Viewing Angle:	H:59° ; V:44° ; D:73°
FOV (Diagonal):	73 degrees
Power Requirement:	DC 12V
Power Consumption:	with IR: Max - 280 mA w/o IR: Max 90mA
Operating Temp Range:	-10° ~ 50° C [14° ~ 122°F]
Operating Humidity:	within 90% RH
Weight (with stand):	0.60 LB / 0.27 KG
Environmental Rating:	IP 66

Disclaimers:

- 1. Recording time may vary based on recording resolution & quality, lighting conditions and movement in the scene. Storage calculator included on your CD.
- 2. Requires a high speed internet connection and UPNP (Universal Plug & Play) router - not included.
- 3. Apple MAC compWatile using Safari Web browser for selectable single channel live viewing.
- 4. Always use discretion when installing video and/or audio surveillance equipment especially when there is perceived privacy. Inquire regarding federal, state and/or local regulations applicable to the lawful installation of video and or audio recording or surveillance. Party consent may be required.
- 5. IR illumination range of 40ft (12m) under ideal conditions. Objects at or beyond this range may be partially or completely obscured, depending on the camera application.
- 6. Not recommended for submersion in water. Installation under shelter is recommended.
- 7. Night vision range up to 50 ft. (15 m) in ideal conditions. Objects at or beyond this range may be partially or completely obscured, depending on the camera application.
- 8. Not recommended for submersion in water. Installation under shelter is recommended.

† Instant Mobile Viewing on Blackberry™, iPhone™ or Windows Mobile™ 6.0, Android™ and above: 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](http://www.lorextechnology.com)

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Product Information:

MODEL	CONFIGURATION	PACKAGE	W x D x H in & mm	WEIGHT	CUBE	UPC Code
LH604501C4L9	4 ch DVR x 500GB HDD x 4 (CVC6930) Cameras x 1 - 9" LCD Monitor	Retail	375mm x 391mm x 322mm/ 14.8" x 15.4" x 12.7"	8.9 kg/19.8 lbs	0.04m / 1.67ft	7-78597-60403-0
LH604501C4F	4 ch DVR x 500GB HDD x 4 (CVC6930) Cameras	Retail - Universal	375mm x 391mm x 322mm/ 14.8" x 15.4" x 12.7"	7.3 kg/16.2 lbs	0.04m / 1.67ft	7-78597-60402-3
LH6445L9B	4 ch DVR x 500GB HDD x 4 (SG7530) Cameras x 1 - 9" LCD Monitor	Brown	375mm x 391mm x 322mm/ 14.8" x 15.4" x 12.7"	8.9 kg/19.8 lbs	0.04m / 1.67ft	7-78597-60405-4
DVR & Camera Pack Includes	4 Channel DVR, HDD Pre-Installed, Remote Control, Power adaptor for DVR, Mouse, Ethernet Cable, DVI to VGA Converter, 4 x Cameras, 4 x Camera Stands, 4 x BNC to RCA Adaptors, 4 x 60ft BNC Extension Cables, 4 x Camera Power Adaptors [or 1 x 4 in 1 camera power adaptor], Quick Start Guide, CD.					
9" LCD Monitor Package Includes:	1 x 9" LCD Monitor, 1 x Monitor Stand, 1 x Power Adapter, 1 x RCA cable with BNC adapter [attached] 1 x Mounting Kit, 1 x Mounting Template.					

Lorex Technology Inc.

250 Royal Crest Court, Markham,  
Ontario L3R 3S1  
Canada.

3700 Koppers Street  
Baltimore, Maryland 21227,  
USA.

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