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Lorex Wireless Security Camera System User Manual

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Lorex Wireless Security Camera System

- FAST AND EASY INTERNET SET-UP
- VIEW ON SMARTPHONE, TABLET, PC & MAC
- RECORD MONTHS OF FOOTAGE
- REAL-TIME WIRELESS VIDEO

SIMPLE CLOUD CONNECTION
Hassle-free Stratus Connectivity for remote viewing. Download the free App, scan the QR code and start viewing your world securely online!

RECORD MONTHS OF FOOTAGE
Record continuous or motion activated video on the reliable surveillance-grade hard drive designed for 24/7 operation.

SUPERIOR 960H RESOLUTION
Records with 34% more resolution than standard D1, offering true to life aspect ratio that provides sharper, more detailed, and non stretched images.1

WIRELESS FLEXIBILITY
No need to run video cables – this system offers true wireless freedom. Versatile wireless cameras boast real-time video and ensure constant connection.

DIGITAL VIDEO RECORDER

- 960H (960×480) recording resolution capable 1
- H.264 video compression 2
- HDMI output (HDMI cable included for – simple connection to HDTVs) 3
- Real time recording resolution: 4ch @ 960×480 (960H), 8 @ 480×240
- Pentaplex operation – View, Record, Playback, Back Up & Remotely Control the system simultaneously
- 24/7 100% Duty cycle hard drive pre-installed
- LOREX Stratus Solution – Quick & simple internet cloud connectivity 4
- Instant Mobile Viewing on compatible Smart phones & Tablets †
- PC and Mac Compatible
- Instant email alerts with snap shot attachment
- Accurate Time Stamps with NTP & Daylight Savings Time

WIRELESS CONVENIENCE WITHOUT COMPROMISE

- THE ALTERNATIVE TO WIRED CAMERAS
- REAL TIME WIRELESS VIDEO
- SIGNAL GUARD TECHNOLOGY
- SAVE TIME AND MONEY ON INSTALLATION

STABLE & FLUID VIDEO
Don't miss a thing with Real-Time video & fluid video.
WIRELESS FRIENDLY
Minimizes conflicts with competing wireless signals with next generation interference reduction technology.
IDEAL ADD-ON CAMERA
Compliments your home or business surveillance system with extended range and flexibility.
SAVE TIME AND MONEY
No need to run video cables. Simply power up and start monitoring.

FEATURES

- Real-time (up to 30fps) wireless video with MPEG-4 compression @ 640×480 (VGA) resolution 5
- Extended bandwidth delivers super smooth high frame rate video 5
- Signal Guard Technology continuously monitors the wireless signal and automatically reconnects upon detecting low signal strength
- Next generation adaptive Frequency Hopping Spread Spectrum (FHSS) technology greatly reduces signal interference
- Auto-mechanical infrared camera filter achieves accurate color reproduction in varying lighting conditions
- 2 channel receiver for separate wireless video channels to your DVR minimizes cable clutter
- Long range night vision range up to 135ft (41m) / 90ft (27m) 6
- Simple installation. No video cable required 7
- Weatherproof camera and power connectors, can be installed indoors or outdoors 8
- Easily connects to any surveillance DVR (BNC)
- High gain antennas provide up to 165ft (50m) indoor / 500ft (152m) outdoor wireless range 9
- Vandal resistant camera design with cable pass-through mounting brackets

DVR Specifications

SYSTEM

Operating System	Linux (embedded)
Pentaplex	Simultaneous View, Record, Playback, Backup & Remote Monitoring
Number of Channels	4/8/16

INPUTS/OUTPUTS

Video IN	4/8/16 x 1Vp-p, CVBS, 75ohms, BNC
Video OUT	1 x BNC
VGA OUT	Yes
HDMI	Yes
Audio IN	4ch&8ch:2 Line in (RCA), G.711, 16ch:4 Line in (RCA), G.711
Audio OUT	1 line out (RCA), G.711
USB Port	1 at the back for Mouse, 1 at the front for firmware upgrade & USB backup
Alarm IN	4ch / 8ch: Without Alarm, 16ch: 8ch in
Alarm OUT	16ch: 1ch Out
Video Output Resolution	800×600, 1024×768, 1280×1024, 1440×900, HDMI (1920×1080)
PTZ control	RS-485 Pelco D & P Protocol

DISPLAY

Live Display	4ch: 1, 4, 9, 16 / 8ch: 1, 4, 8/ 16ch: 1, 4, 9, 16
Live Display Speed	4ch: 120 NTSC, 100 PAL 8ch: 240 NTSC, 200 PAL 16ch: 480 NTSC, 400 PAL

OSD	ON/OFF
System Navigation	USB Mouse, IR Remote Controller
Motion Area Setting	Adjustable grid (30×44) NTSC Adjustable grid (36×44) PAL
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	**NTSC**: 960H mode: 480×240(WCIF),960×240(WHD1),960×480(WD1) D1 mode: 360×240(CIF),720×240(HD1),720×480(D1) PAL: 960H mode: 480×288(WCIF),960×288(WHD1),960×576(WD1) D1 mode: 360×288(CIF),720×288(HD1),720×576(D1)
Recording Resolution Setting	Per camera for different resolutions (CIF/2CIF/D1 or WD1/WHD1/WCIF)
Recording Quality Control	3 levels
Recording Schedule	4ch&8ch: By hour, by day, by recording mode, by motion, by ch 16ch: By hour, by day, by recording mode, by motion, 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 motion detected, configuration changes, connects/disconnects and video loss.
Audio Play	Yes

STORAGE & ARCHIVE

Storage	Up to 1 HDD's (SATA)
Maximum Capacity	Up to 2TB
Backup Media	USB Flash Drive & HDD
Backup File Format	H.264 file (AVI generator included)

CONNECTIVITY

Cloud Connection	Lorex Stratus Connectivity
Supported Operating Systems	Windows™ 7, 8 Mac OSX Snow Leopard 10.6 or above
Remote Software	Client Software (PC) & Safari 6.0 (Mac)
Email notification	Text with snapshot
Instant Smart Phone Compatibility†	Smart Phone & Tablet Compatibility: iPad®, iPhone®, Android (version 2.2 & above)
DDNS	Free Lorex DDNS
System Configuration	Full setup configuration over network
Ports	Programmable by User
Network Protocol	TCP/IP / DHCP / UDP / DDNS / PPP
Network Interface	10/100-Base-TX, RJ-45
Network Speed Control	48Kb ~ 8MB/sec.

GENERAL

Power Consumption	Approx. 10 watts (No HDD Installed)
Supply Voltage	100VAC-240VAC, 12VDC, 2A, 50/60Hz
Unit Dimension (W x D x H)	11.81"/300mm x 8.66"/220mm x 1.97"/50mm
Unit Weight (KGs)	1.51s kg/3.33 Lbs
Operating temperature	32° ~ 104° F / 0° ~ 40° C

| | | | Humidity | | 10 ~ 90% NC | | |

RECORDING RESOLUTION (PIXELS) & SPEED (FPS – FRAMES PER SECOND)

FPS		960H Mode			D1 Mode		
		960H	½ 960H	¼ 960H	D1	½ D1	¼ D1 (CIF)
		960 x 480	960 x 240	480 x 240	720 x 480	720 x 240	360 x 240
4ch	Total	120	120	120	120	120	120
	Per channel	30	30	30	30	30	30
8ch	Total	88	88	240	240	240	240
	Per channel	11	11	30	30	30	30
16ch	Total	160	160	480	224	224	480
	Per channel	10	10	30	14	14	30

Specifications

GENERAL

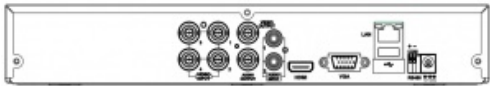|	
TX Frequency Range	2.400GHz~2.480GH
TX Power	16dBm
Unobstructed Effective Range	165ft (50m) indoor, 500ft (152m) outdoor
Data Rate	4 Mb/
Modulation	GFSK
Spread Spectrum	FHSS
Operating Temperature Range	14°F ~ 122°F / -10°C ~ 40°C

CAMERA

Image Sensor Type	1/4" Color CMOS Image Sensor
Effective Pixels	H: 640 V: 480
Image Compression	MPEG4
Image Resolution	VGA (640×480)
Lens	3.6mm F2.0
Field of View (Diagonal)	55°
AGC	On
Power Requirement	9V DC +/- 5%
Power Consumption	430mA Max with IR LED
	220mA Max without IR LED
Environment Rating	IP66
IR LED Quantity / Type	24 pieces / 850nm
Night Vision Range2	90ft (27m) / 135ft (41m)
Built in Auto IR Turn On / Off	CdS Drive Auto IR LED turn On/Off Circuit
Dimensions (W x D x H)	79 x 203 x 117mm / 3.1 x 8.0 x 4.6" (with antenna and sunshade)
Weight	0.3kg / 0.6lbs

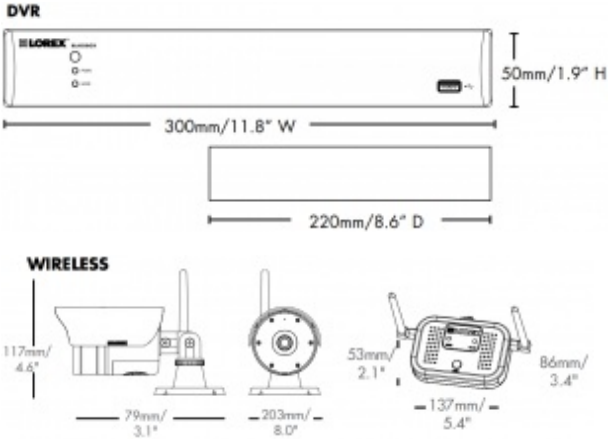|	
RX Sensitivity	-81dBm
Demodulation	GFSK
Data Rate	4 Mb/s
Supported Resolution	VGA (640×480) up to 25 frames per second
Termination	2x BNC video
Power Requirement	9V DC +/- 5%
Power Consumption	270mA Max
Operating Temperature Range	14°F ~ 122°F / -10°C ~ 40°C
Dimensions (W x D x H):	53 x 137 x 86mm / 2.1 x 5.4 x 3.4" (with antenna attached)
Weight:	0.1kg / 0.3lbs

DVR Inputs & Outputs

4 Channel DVR

8 Channel DVR

Product Information

MODEL	CONFIGURATION	PACKAGE	W x D x H – Inches & mm	WEIGHT	CUBE	UPC Code
LH024501C2W	4 ch Eco Blackbox2 DVR with 500GB HDD, 1 x LW2232PK2B	Retail Box	435mm x 332mm x 278mm/ 17.02" x 13.01" x 10.15"	3.9 kg/8.7 lbs	0.04 Cbm / 1.5 Cft	7-78597-01245-3
LH024501C2WB	4 ch Eco Blackbox2 DVR with 500GB HDD, 1 x LW2232PK2B	Brown Box	435mm x 332mm x 278mm/ 17.02" x 13.01" x 10.15"	3.9 kg/8.7 lbs	0.04 Cbm / 1.5 Cft	6-95529-00167-8
LH0242W	4 ch Eco Blackbox2 DVR with 500GB HDD, 1 x LW2232PK2B	Retail Box	435mm x 332mm x 278mm/ 17.02" x 13.01" x 10.15"	3.9 kg/8.7 lbs	0.04 Cbm / 1.5 Cft	7-78597-01242-2
LH024501C4WB	4 ch Eco Blackbox2 DVR with 500GB HDD, 2 x LW2232PK2B	Brown Box	435mm x 332mm x 278mm/ 17.02" x 13.01" x 10.15"	4.3 kg/9.65 lbs	0.04 Cbm / 1.5 Cft	6-95529-00169-2
LH028501C4WB	8 ch Eco Blackbox2 DVR with 500GB HDD, 2 x LW2232PK2B	Brown Box	435mm x 332mm x 278mm/ 17.02" x 13.01" x 10.15"	4.3 kg/9.65 lbs	0.04 Cbm / 1.5 Cft	6-95529-00171-5

DVR (LH020W Series) Includes	DVR with preinstalled HDD, Remote Control, Power Adapter, Mouse, Ethernet Cable, HDMI Cable, CD, QSG, Instruction Manual
WIRELESS (LW2232PK2B) Includes	2 x Indoor/outdoor cameras, 1 x Wireless receiver, 3 x Power adapters, 4 x Antennas

Dimensions

DISCLAIMERS:

1. Optimized when used with 960H compatible cameras. DVR is backwards compatible and supports different camera inputs: standard resolution and 960H.

2. Recording time may vary based on recording resolution & quality, lighting conditions and movement in the scene.
3. HDMI output (1920×1080) for high definition multi-channel live viewing only. High definition recording not supported, recording resolution is limited to a maximum of 960×480 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). An upload speed of 1Mbps is recommended for the best video performance. Up to 3 devices may connect to the system at the same time.
5. At full signal strength. Limit number of obstructions to ensure best performance.
6. Stated IR illumination ranges are based on ideal conditions in total darkness and typical outdoor night time ambient lighting. Actual range and image clarity depends on installation location, viewing area and light reflection/absorption
7. Camera and receiver requires a wired connection to an electrical outlet (power adaptors included).
8. Not intended for submersion in water. Installation in a sheltered area required.
9. Maximum wireless transmission range. Actual range dependent upon building materials and other obstructions in path of wireless signal. † Smart Phone & Tablet Compatibility: iPad®, iPhone®, Android (version 2.2 & above). Mobile phone data plan is required (not included). For the latest compatibility list check www.lorextechnology.com as new models become available in the market.

* BlackBox is used solely as a marketing term and does not imply that the product can survive fire or extreme conditions. Use product in accordance with the instructions provided.
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