LOREX SECURITY CAMERA SYSTEM

VIEW YOUR WORLD®

WATCH OVER YOUR WORLD
FROM ANYWHERE IN THE WORLD

MOBILE SURVEILLANCE
Connect and view your system on the go with your Tablet or Smartphone over a 3G/4G or WiFi network.†

SIMPLE YET ADVANCED
Record on a surveillance grade hard drive, designed for 24/7 operation providing weeks or even months of reliable recording.[1]

SIMULTANEOUS MONITOR VIEWING
Connect to a TV, PC, or CCTV monitors with industry standard VGA & BNC inputs.

EASY SYSTEM NAVIGATION
Intuitive menu options with simple icons allow for fast and efficient DVR programming.

HI-RES SERIES

- **4** CHANNELS
- **4** CAMERAS
- **500** GB
- **480** TVL RESOLUTION
- **75/50** FT NIGHT VISION

- VIEW ON TABLET, SMARTPHONE, PC & MAC
- 24/7 RELIABLE RECORDING
- AFFORDABLE PEACE OF MIND

REMOTE CONNECTIVITY & COMPATIBILITY*

iPhone® iPad® BlackBerry Windows Mac

VANTAGE

LH010 ECO BLACKBOX Series

www.lorextechnology.com

LOREX VIEW YOUR WORLD®

SECURITY CAMERA SYSTEM

DIGITAL VIDEO RECORDER:

- H.264 video compression[1]
- 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 Wizard [2]
- 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

WHAT'S INSIDE IN THE BOX:

- DVR with pre-installed HDD*
- Easy-to-follow setup instruction guide and manual
- ALSO INCLUDES: Remote Control, Power Adapter, Mouse, Ethernet Cable.

VANTAGE

LH010 ECO BLACKBOX Series

LOREX SECURITY CAMERA SYSTEM

VIEW YOUR WORLD®

VIEW YOUR WORLD - IN HIGH RESOLUTION.

- COVERT NIGHT VISION
- VANDAL RESISTANT
- WEATHERPROOF

CLEAR VIDEO DAY & NIGHT

Focus your eyes on the high resolution detail.

INVISIBLE IR LED's

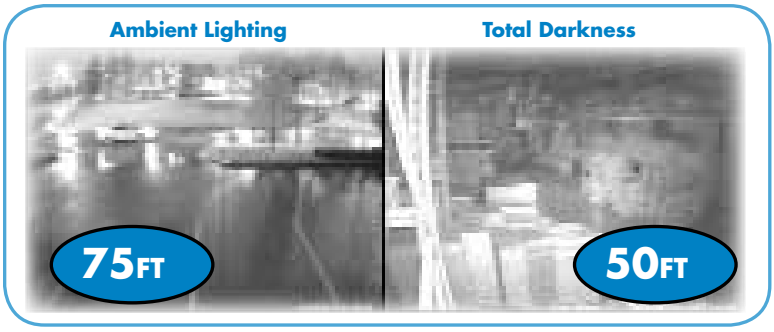
Special infrared LED's produce no visible light, making the camera difficult to notice at night.

VERSATILE CAMERA

Built with durable weatherproof housing and cable pass-though bracket for vandal protection.

FEATURES

- Advanced image sensor produces high resolution video at 480 TV Lines of resolution
- Picture automatically switches to Black & White delivering better clarity in low light conditions
- Clean & crisp night vision up to 75ft (22m) / 50ft (15m)[3] away in total darkness
- 30 Covert IR LED's don't glow red making it difficult to detect the camera at night
- 4.6mm medium angle lens with a 57° diagonal field of view for improved object recognition
- Vandal resistant design with cable pass-through bracket
- IP66 weatherproof rated - ideal for outdoor and indoor applications [4]
- Flexible mount offers wall and ceiling installation options



HI-RES SERIES
480 TVL
75/50ft NIGHT VISION
INDOOR/OUTDOOR

VANTAGE

LH010 ECO BLACKBOX Series

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PRODUCT 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	**4/8 ch:** 2 x BNC, **16 ch:** 1 x BNC
VGA OUT	**4/8/16 ch:** Yes
Audio IN	**4/8 ch:** 1 Line in(RCA), G.711 **16 ch:** 2 Line in(RCA), G.711
Audio OUT	**4/8/16 ch:** 1 line out(RCA), G.711
USB Port	1 at the back for Mouse, 1 at the front for firmware upgrade & USB backup
Video Output Resolution	800x600, 1024x768, 1280x1024
PTZ control	RS-485 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
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	**4/8 ch:** NTSC: 360x240 (CIF), 720x240 (HD1), 720x480 (D1) **4/8 ch:** PAL: 360x288 (CIF), 720x288 (HD1), 720x576 (D1) **16 ch:** NTSC: 360x240 (CIF), PAL: 360X288 (CIF)
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) @ HDI, 60/50 (NTSC/PAL) @ D1 **16 ch:** 480/400 (NTSC/PAL) @ CIF
Recording Resolution Setting	Per camera for different resolutions (CIF/2CIF/D1). **16 ch:** CIF only
Recording Quality Control	3 levels
Recording Schedule	By hour, by day, by recording mode, by motion, by channel
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	**4/8/16 ch:** Up to 1 HDD's (SATA)
Maximum Capacity	**4/8/16 ch:** Up to 2TB
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 6.0
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	10/100-Base-TX, RJ-45
Network Speed Control	48Kb ~ 8MB/sec.
GENERAL	
Power Consumption	**4/8/16 ch:** Approx. 15 watts (HDD Pre-installed)
Supply Voltage	**4/8/16 ch:** 100VAC-240VAC, 12VDC , 2A, 50/60Hz
Unit Dimensions 1.97"/50mm	**4/8/16 ch:**11.81"/300mm x 8.66"/220mm x (W x D x H)
Unit Weight (KGs)	**4 & 8 ch:** 1.32 kgs/2.9 Lbs **16 ch:** 1.51s kg/3.33 Lbs
Operating temperature	32° ~ 104° F / 0° ~ 40° C
Humidity	10 ~ 90% NC

CAMERA (CVC6945PK4B):

Image Sensor:	1/4" Color Image Sensor
Video Format:	NTSC
Effective Pixels:	H: 668 V: 512
Resolution:	480 TV Lines
Scan System:	2:1 Interlace
Sync System:	Internal
S/N Ratio:	46.8dB (AGC Off)
Iris:	AES
AES Shutter Speed:	1/60 ~ 1/100,000 Sec.
Min. Illumination:	0.1 Lux without IR LED
	0 Lux with IR LED
Video Output:	Composite 1.0Vpp @75 ohm
Lens / Lens Type:	4.6mm F2.0 / Fixed
FOV (Diagonal):	57°
Termination:	BNC Type
IR LED Qty / Type:	30 pieces / 940nm
Night Vision Range:	75ft (22m) / 50ft (15m)
Power Requirement:	12V DC ±10%
Power Consumption:	Max. 230mA (w/IR)
Operating Temp. Range:	14° ~ 122°F / -10° ~ 50°C
Operating Humidity Range:	< 95% RH
Environmental Rating:	Both (IP66)
Weight (including stand):	0.7lbs / 0.3kg

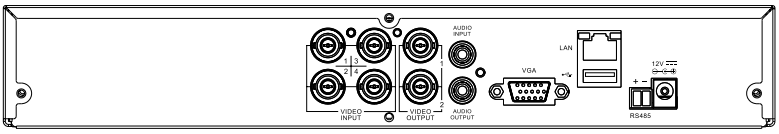
VANTAGE

LH010 ECO BLACKBOX Series

PRODUCT INFORMATION

DVR Inputs & Outputs

4 Channel DVR

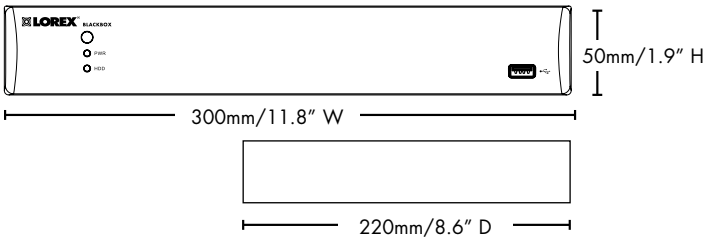


Product Information:

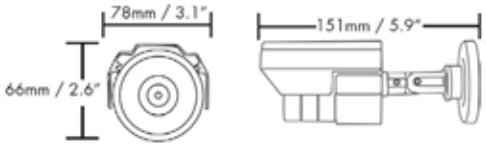
MODEL	CONFIGURATION	PACKAGE	W x D x H - Inches & mm	WEIGHT	CUBE	UPC Code
LH014501C4F	4 CH DVR x 4 (480) TVL Cameras (CVC6945PK4B) x 500GB HDD	Universal Retail Box	440mm x 195mm x 285mm/ 17.3" x 7.6" x 11.2"	6.5 kg/14.40 lbs (estimated)	0.03m /1.28ft (estimated)	7-78597-14540-3
LH014501C4FPM	4 CH DVR x 4 (480) TVL Cameras (CVC6945PK4B) x 500GB HDD	Universal Retail Box	440mm x 195mm x 285mm/ 17.3" x 7.6" x 11.2"	6.5 kg/14.40 lbs (estimated)	0.03m /1.28ft (estimated)	7-78597-04504-8
INCLUDES	4 Ch DVR with 500 GB HDD, Remote Control, Power Adapter, Mouse, Ethernet Cable, CD, QSG, Instruction Manual, 4 x Cameras, 4 x Camera Stands, 4 x 60ft BNC/DC Extension Cables, 1 x 4 in 1 Camera Power Adaptors.					

Dimensions:

DVR



CAMERA:



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. IR Illumination range under ideal conditions. Actual range and clarity may vary depending on scene/object reflection and camera application. Measurements are calculated using ambient lighting and total darkness conditions.
4. Not intended for submersion in water. Installation in a sheltered location recommended.

† 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.

* 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.

* Number of Channels/ Cameras/ Accessories/ HDD (hard disk drive) capacity may vary by model. Check your package label for specific content information.

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