



LHV826



LHV16212



LHV828/ LHV828MX



LHV162C8D4Z1B

**VIEW YOUR WORLD IN TRUE HD**

Experience true High Definition TV quality video.  
Stay connected where ever you go with smart  
phone and tablet apps.



FLIR Cloud™



LHV22162TC8/LHV22161TC8

4/8/16 Channels	4/6/8/12/16 Cameras	130/90 <sup>FT</sup> 40/28 <sup>M</sup> Night Vision
1/2/3TB <sub>HDD</sub>	1080 <sub>P</sub> Bullet/Dome Cameras	720 <sub>P</sub> PTZ Camera

**DVR FEATURES:**

- Supports 1080p recording on all cameras <sup>1</sup>
- 24/7 security-grade hard drive
- Continuous, scheduled and motion recording
- PTZ cameras supported, remote control through App <sup>1</sup>
- H.264 video compression <sup>2</sup>
- HDMI output (HDMI cable included) for simple connection to HDTVs <sup>3</sup>
- Accurate time stamps with NTP & daylight savings time
- Click and drag digital zoom in live view and playback
- 2 video outputs (HDMI & VGA) to connect multiple monitors
- Instant USB backup of live video from selected camera
- Automatic firmware upgrade
- FLIR Cloud™ app with 3-Step setup <sup>4</sup>
- PC and Mac compatible <sup>4</sup>
- Instant mobile viewing on smartphones and tablets <sup>5</sup>
- Advanced apps with live viewing, playback, video recording, and snap shot
- Motion push notifications and email alerts
- Dual streaming to conserve bandwidth
- Supports 1080p/720p HD MPX cameras and standard analog cameras





## VIEW YOUR WORLD IN TRUE HD

Keep an eye on your home or business day or night with this high definition 1080p security camera with long range night vision.

### FEATURES:

- True HD 1080p Image Sensor <sup>1</sup>
- Infrared cut filter ensures accurate color representation
- Night vision range up to 130ft (40m) in ambient lighting & 90ft (28m) in total darkness <sup>2</sup>
- Close up recognition in the dark with SmartIR
- Anti-glare feature ensures clear images under strong lighting conditions
- ClearNight imaging for superior low light performance, improving recording efficiency
- Split glass design minimizes IR reflection
- Weatherproof for outdoor & indoor installation (IP66 Rated) <sup>3</sup>
- Extreme temperature performance (-22° ~ 140°F / -30° ~ 60°C)
- 90° field of view
- Vandal resistant design with cable pass-through bracket
- Lightweight and durable polycarbonate housing
- Versatile ceiling or wall mounting options
- Residential and business friendly compact design

130/90<sub>FT</sub> Night Vision  
40/28<sub>M</sub>

1080<sub>P</sub> Resolution

Indoor/outdoor



## VIEW YOUR WORLD IN HD

Keep an eye on your home or business day or night with this high definition HD security camera.

### FEATURES:

- High definition 1080p image sensor <sup>1</sup>
- Crystal clear video with outstanding detail, day or night
- Infrared cut filter ensures accurate color representation
- Night vision range up to 130ft (40m) in ambient lighting & 90ft (28m) in total darkness <sup>2</sup>
- Close up recognition in the dark with SmartIR
- ClearNight imaging for superior low light performance, improving recording efficiency
- Extreme temperature performance (-22° ~ 140°F / -30° ~ 60°C)
- Weatherproof for outdoor & indoor installation (IP66 Rated) <sup>3</sup>
- Wide angle 90° field of view
- Residential and business friendly compact design
- 3-axis design for wall / ceiling mounting

130/90<sub>FT</sub> Night Vision  
40/28<sub>M</sub>

1080<sub>P</sub> Resolution

Indoor/outdoor



## VIEW THE ENTIRE SCENE WITH PAN-TILT-ZOOM

View your world in full 360° with advanced pan-tilt-zoom capabilities and exceptional high definition 720p video quality.

### FEATURES:

- High definition 720p resolution 1.3 MP Sony Exmor<sup>®</sup> image sensor <sup>1</sup>
- Powerful 12 x optical zoom and 16 x digital zoom to focus in on even the finest details
- Full 360° continuous pan rotation for complete area coverage. Fast 300° per second panning speed
- Zoom lens for viewing small or distant objects with enhanced definition
- Control PTZ camera movement and transmit video over a single coaxial cable
- Program preset viewing points, patterns, scan cycles and tours when connected to a DVR
- Remote control of the PTZ camera using a smartphone or tablet (when connected to a DVR)
- Day/Night mode: picture automatically switches to B&W delivering better clarity in low light conditions
- ClearNight imaging for superior low light performance <sup>2</sup>
- Infrared cut filter ensures accurate color representation
- High definition video with outstanding detail, day or night
- Weatherproof for outdoor & indoor installation (IP66 Rated) <sup>3</sup>
- Wall mount & 100ft extension cable included for installation flexibility

**720<sub>P</sub>** **12X** Optical Zoom **300°/SEC** Panning Speed

**LHV1080p HD DVR Recorder**

**SYSTEM**

Operating System	Linux (embedded)
Pentaplex	Simultaneous View, Record, Playback, Backup & Remote Monitoring
Number of Channels	<b>4/8/16 ch</b> – 1080p MPX, 720p HD, or analog cameras supported

**INPUTS/OUTPUTS**

Video IN	4/8/16 x 1Vp-p, CVBS, 75ohms, BNC
BNC Video OUT	No
VGA OUT	Yes
HDMI	Yes
Audio IN	1 line IN (RCA) for service only - audio recording not supported
Audio OUT	1 line IN (RCA) for service only - audio recording not supported
USB Port	1 at the back, 1 at the front
Alarm IN	None
Alarm OUT	None
Video Output Resolution	1920x1080 HDMI, 1280x1024, 1024x768
PTZ control	RS-485 Pelco D & P Protocol

**DISPLAY**

Live Display	<b>4 ch:</b> 1, 4 <b>8 ch:</b> 1, 4, 8, 9 <b>16 ch:</b> 1, 4, 8, 9, 16
Live Display Speed	<b>4 ch:</b> 120 NTSC, 100 PAL <b>8 ch:</b> 240 NTSC, 200 PAL <b>16 ch:</b> 480 NTSC, 400 PAL
OSD	ON/OFF
System Navigation	USB Mouse, IR Remote Controller, Front Panel
Motion Area Setting	Adjustable grid (22x18)
Sensitivity levels	100
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	<b>NTSC:</b> 1080p (1920x1080), 720p (1280x720), 960x480, 704x480, 352x480, 704x240, 352x240 <b>PAL:</b> 1080p (1920x1080), 720p (1280x720), 960x576, 704x576, 352x288
Recording Frame Rate	<b>NTSC:</b> <b>4 ch:</b> 60fps@1080p / 120fps @720p <b>8 ch:</b> 120fps @1080p / 240fps @720p <b>16 ch:</b> 240fps @ 1080p / 480p @ 720p <b>PAL:</b> <b>4 ch:</b> 48fps@1080p / 100fps @720p <b>8 ch:</b> 96fps @1080p / 200fps @720p <b>16 ch:</b> 192fps @ 1080p / 400fps @ 720p
Recording Resolution Setting	Per camera for different resolutions
Recording Quality Control	6 levels
Recording Schedule	By hour, by day, by recording mode, by motion, by channel
Pre Recording	Max. 30 Secs
Post Recording	Max. 5 Minutes
Reliability	Watch-Dog, Auto-recovery after power failure
Covert Video	Yes

**PLAYBACK**

Playback Channel	<b>4 ch:</b> 1 / 4 <b>8 ch:</b> 1 / 4 / 8 <b>16 ch:</b> 1 / 4 / 9 / 16
Playback Speed	Variable Max 4x
Playback Players	Backup Player
Search	By time & event
Log Search	Up to 1,000 lines for motion detected, configuration changes, connects/disconnects and video loss
Audio Play	Yes

**STORAGE & ARCHIVE**

Storage	LHV2104 / LHV2108 / LHV2116: Up to 1 HDD's (SATA) LHV2216: Up to 2 HDD's (SATA)
Maximum Capacity	LHV2104 / LHV2108 / LHV2116: Up to 1x4TB LHV2216: Up to 2x4TB
Backup Media	USB Flash Drive & HDD
Backup File Format	DAV or ASF file

**CONNECTIVITY**

Cloud Connection	Flir Cloud™
Supported Operating Systems	<b>Windows™</b> <b>Mac OS X</b>
Remote Software	Client Software (PC) & Safari (Mac)
Email notification	Text with snapshot
Instant Smart Phone & Tablet Support †	iPad®, iPhone®, Android™
DDNS	Free Lorex DDNS
System Configuration	Full setup configuration over network
Ports	Programmable by User
Network Protocol	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP
FilterNetwork Interface	10/100-Base-TX, RJ-45
Network Speed Control	48Kb ~ 8MB/sec. per camera

**GENERAL**

Power Consumption	Approx. 10 watts (no HDD included)
Supply Voltage	<b>LHV2104 / LHV2108:</b> 100VAC-240VAC, 12VDC, 2A, 50/60Hz <b>LHV2116:</b> 100VAC-240VAC, 12VDC, 3A, 50/60Hz <b>LHV2216:</b> 100VAC-240VAC, 12VDC, 5A, 50/60Hz
Unit Dimensions	<b>LHV2104 / LHV2108 / LHV2116:</b> 12.8" x 10.0" x 2.2" / 325mm x 255mm x 55mm <b>LHV2216:</b> 14.8" x 11.5" x 1.8" / 375mm x 292mm x 46mm
Unit Weight (KGs)	<b>LHV2104 / LHV2108 / LHV2116:</b> 3.3lbs / 1.5kg <b>LHV2216:</b> 3.9lbs / 1.8kg
Operating temperature	32° ~ 104° F / 0° ~ 40° C
Humidity	10 ~ 90% RH

**RECORDING RESOLUTION (PIXELS) & SPEED (FPS - FRAMES PER SECOND)**

		720p	1080p
		1280x 720	1920x 1080
<b>4ch</b>	Total	120/100	60/48
	Per channel	30/25	15/12
<b>8ch</b>	Total	240/200	120/96
	Per channel	30/25	15/12
<b>16ch</b>	Total	480/400	240/192
	Per channel	30/25	15/12

## LBV2521 Series Camera

Image Sensor	1/2.7" 1080p, 2 Megapixel Image Sensor
Video Format	NTSC / PAL
Effective Pixels	H: 1930 V: 1088
Resolution	1080p @ 30FPS / 25FPS
Scan System	Progressive
Sync System	Internal
S/N Ratio	53dB (AGC Off)
Iris	AES
AES Shutter Speed	1/60 (1/50) - 1/100,000 Sec.
Min. Illumination	0.2 Lux without IR LED / 0 Lux with IR LED
Video Output	MPX
Lens / Lens Type	3.6mm F2.1 / Fixed
Field of view (Diagonal)	90°
Termination	BNC Type
IR LED Qty / Type	12 pieces / 850nm
Night Vision Range	130ft (40m) / 90ft (28m)
Power Requirement	12V DC ±10%
Power Consumption	Max. 220mA (with IR)
Operating Temp. Range	-22° - 122°F / -30° - 50°C
Operating Humidity Range	< 95% RH
Environmental Rating	IP66 (Indoor / Outdoor)
Weight (including stand)	0.3lbs / 0.1kg

## LZV1722B PTZ Camera

Image Sensor:	1/3" 1.3MP Sony Exmor
Video Format:	NTSC/PAL
Effective Pixels:	1280(H) x 960 (V)
Resolution:	up to 720p (1280 x 720)
Range:	360° Pan (Endless); -2-90° Tilt (Auto-Flip)
Pan/Tilt Speed:	Max 300°/Sec (Pan); Max 200°/Sec (Tilt)
Zoom:	12x Optical Zoom & 16x Digital Zoom
Protocol:	DH-SDI, MPX CVI
Min. Illumination:	0.1 Lux in Color 0.01 Lux in Black and White
Lens/Lens Type:	Auto Focus / 5-61mm F 1.6
Field of View (Horizontal):	4-51°
Field of View (Diagonal):	6-64°
S/N Ratio:	>55db (AGC Off)
Scan System:	Progressive
Synchronization:	Internal
Iris:	AES
Day/Night:	IR Cut Filter (ICR)
Termination:	BNC Video/AC Power/RS485 (service only)
Video Output:	Composite 1.0Vpp @ 75ohm
Power Requirement:	24V DC ±10%
Power Consumption:	Max 500mA
Operating Temperature Range:	14°F - 140°F / -10°C - 60°C
Operating Humidity Range:	within 90%RH
Indoor/Outdoor:	Both (IP66)
Weight:	2.9lbs / 1.3kg

## LEV2522 Series Camera

Image Sensor:	1/2.7" 1080p, 2 Megapixel Sensor
Video Format:	NTSC (LEV2522) / PAL (LEV2522P)
Effective Pixels:	H: 1930 V: 1088
Resolution:	1080p
Scan System:	Progressive
Sync System:	Internal
S/N Ratio:	50dB (AGC Off)
Iris:	AES
AES Shutter Speed:	1/60 (1/50) - 1/100,000 sec.
Min. Illumination:	0.01 Lux without IR LED 0 Lux with IR LED
Video Output:	MPX
Lens / Lens Type:	3.6mm F1.2 / Fixed
FOV (Horizontal):	90°
Termination:	BNC Type
IR LED Qty / Type:	12 pieces / 850nm
Night Vision Range:	130ft (40m) / 90ft (28m)
Power Requirement:	12V DC ±10%
Power Consumption:	Max. 200mA (w/IR)
Operating Temp. Range:	-22° - 140°F / -30° - 60°C
Operating Humidity Range:	< 95% RH
Environmental Rating:	Both (IP66)
Weight (including stand):	0.75lbs / 0.34kg

## DVR Inputs and Outputs

4 Channel DVR



8 Channel DVR



16 Channel DVR (LHV2116)



16 Channel DVR (LHV2216/LHV1600)



## DVR Dimensions:

LHV2104 / LHV2108 / LHV2116:

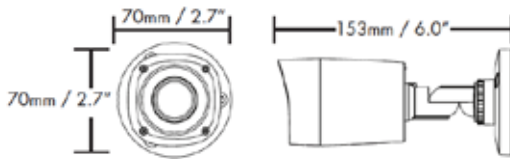


LHV2216/LHV1600:

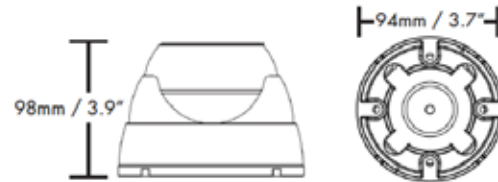


## Camera Dimensions:

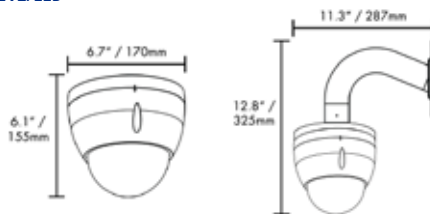
LBV2521B:



LEV2522B



LZV1722B



## DVR Disclaimers:

1. Compatible with Lorex 1080p and 720p wired HD-CVI cameras and standard analog cameras. For a list of compatible cameras, please visit [www.lorextechnology.com/support](http://www.lorextechnology.com/support). Recording time may vary based on recording resolution and quality, lighting conditions and movement in the scene.
2. Requires a high speed internet connection and a router (not included). A minimum upload speed of 2Mbps is required for the best video performance. Up to 2 devices may connect to the system at the same time.
3. HDMI output (1920x1080) HD for high definition multi-channel live viewing only. 1080p Recording resolution is limited to a maximum of 1920x1080 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). A minimum upload speed of 1Mbps is required for the best video performance. Up to 2 devices may connect to the system at the same time.
5. For the latest list of supported apps and devices, please visit [www.lorextechnology.com/support](http://www.lorextechnology.com/support)

## Bullet & Dome Camera Disclaimers:

1. Compatible with Lorex MPX series DVRs only.
2. Stated IR illumination range is based on ideal conditions in typical outdoor night ambient lighting and in total darkness. Actual range and image clarity depends on installation location, viewing area and light reflection / absorption level of object.
3. Not intended for submersion in water. Installation in a sheltered location recommended.

## PTZ Camera Disclaimers:

1. Compatible with Lorex LHV2000 Series only.
2. This camera features an ultra-low light sensitive image sensor and therefore does not feature Infra-Red LEDs. The camera requires ambient lighting (for example, street/ building lighting, star or moon light) to render a night time image. In total darkness (zero Lux), the camera will not produce a night time image and therefore the camera should not be installed in completely dark areas.
3. Not intended for submersion in water. Installation in a sheltered location recommended.

All trademarks belong to their respective owners. No claim is made to the exclusive right to use the trademarks listed, other than the trademarks owned by Lorex Technology Inc. We reserve the right to change models, configurations or specifications without notice or liability. Product may not be exactly as shown. Images are simulated.



### Product Information:

MODEL	CONFIGURATION	PACKAGE	W x D x H Inches & mm	WEIGHT	CUBE	UPC CODE
LHV826	8 channel HD DVR with 2TB HDD & 6 x 1080p Cameras (LBV2521PK4B)	Retail Box	379mm x 303mm x 379mm 14.1" x 11.1" x 14.1"	14.7 lbs / 6.6 kg	1.6cft / 0.04cbm	6-95529-00532-4
LHV828	8 channel HD DVR with 2TB HDD & 8 x 1080p Cameras (LBV2521PK4B)	Retail Box	424mm x 307mm x 360mm 16.7" x 12.1" x 14.2"	20 lbs / 9 kg	1.6cft / 0.04cbm	6-95529-00328-3
LHV828MX	8 channel HD DVR with 2TB HDD & 8 x 1080p Cameras (LBV2521PK4B)	Retail Box	424mm x 307mm x 360mm 16.7" x 12.1" x 14.2"	20 lbs / 9 kg	1.6cft / 0.04cbm	6-95529-00492-1
LHV21081TC4B	8 channel HD DVR with 1TB HDD & 4 x 1080p Cameras (LBV2521PK4B)	Brown Box	388mm x 226mm x 368mm 15.3" x 8.9" x 14.5"	11 lbs / 4.9 kg	1.6cft / 0.03cbm	6-95529-00360-3
LHV21082TC8P	8 channel HD DVR with 2TB HDD & 8 x 1080p Cameras (LBV2521P)	Brown Box	424mm x 307mm x 360mm 16.7" x 12.1" x 14.2"	20 lbs / 9 kg	1.6cft / 0.04cbm	6-95529-00531-7
LHV16212	16 channel HD DVR with 2TB HDD & 12 x 1080p Cameras (LBV2521PK4B)	Retail Box	500mm x 383mm x 449mm 19.7" x 15.1" x 14.9"	24 lbs / 10.8 kg	3.04cft / 0.08cbm	6-95529-00334-4
LHV1628B	16 channel HD DVR with 2TB HDD & 8 x 1080p Cameras (LBV2521PK4B)	Brown Box	424mm x 360mm x 307mm 16.7" x 14.2" x 12.1"	20 lbs / 9 kg	0.6cft / 0.04cbm	6-95529-00401-3
LHV162C8D4B	16 channel HD DVR with 2TB HDD & 8 x 1080p Cameras (LBV2521PK4B), 4 x 1080p (LEV2522PK4B) Dome Cameras	Brown Box	500mm x 383mm x 449mm 19.7" x 15.1" x 14.9"	24 lbs / 10.8 kg	3.04cft / 0.08cbm	6-95529-00402-0
LHV162C8D4Z1B	16 channel HD DVR with 2TB HDD & 8 x 1080p Cameras (LBV2521PK4B), 4 x 1080p (LEV2522PK4B) Dome Cameras, 1 x 720p PTZ Camera (LZV1722B)	Brown Box	571mm x 312mm x 508mm 22.2" x 12.3" x 25"	36 lbs / 16.3 kg	3.95cft / 0.11cbm	6-95529-00404-4
LHV22163TC12B	16 channel HD DVR with 3TB HDD & 12 x 1080p Cameras (LBV2521PK4B)	Brown Box	457mm x 457mm x 457mm 18" x 18" x 18"	26.6 lbs / 12.0 kg	3.37cft / 0.09cbm	6-95529-00425-9
LHV22162TC8	16 channel HD DVR with 2TB HDD & 8 x 1080p Cameras (LBV2521PK4B)	Retail Box	439mm x 325mm x 365mm 17.3" x 12.8" x 14.4"	20 lbs / 9 kg	0.6cft / 0.04cbm	6-95529-00422-8
LHV22161TC8	16 channel HD DVR with 1TB HDD & 8 x 1080p Cameras (LBV2521PK4B)	Retail Box	439mm x 325mm x 365mm 17.3" x 12.8" x 14.4"	20 lbs / 9 kg	0.6cft / 0.04cbm	6-95529-00421-1
LHV22162TC12P	16 channel HD DVR with 2TB HDD & 12 x 1080p Cameras (LBV2521P)	Retail Box	502mm x 386mm x 378mm 19.8" x 15.2" x 14.9"	29.1 lbs / 13.2 kg	3.37cft / 0.09cbm	6-95529-00502-7
LHV21041TC4P	4 channel HD DVR with 1TB HDD & 4 x 1080p Cameras (LBV2521P)	Retail Box	439mm x 325mm x 365mm 15.3" x 12.2" x 14.2"	11 lbs / 4.9 kg (estimated)	1.6cft / 0.03cbm (estimated)	6-95529-00530-0
LHV21041TC4	4 channel HD DVR with 1TB HDD & 4 x 1080p Cameras (LBV2521PK4B)	Retail Box	439mm x 325mm x 365mm 15.3" x 12.2" x 14.2"	11 lbs / 4.9 kg (estimated)	1.6cft / 0.03cbm (estimated)	6-95529-00323-8
LHV414	4 channel HD DVR with 1TB HDD & 4 x 1080p Cameras (LBV2521PK4B)	Retail Box	439mm x 325mm x 365mm 15.3" x 12.2" x 14.2"	11 lbs / 4.9 kg (estimated)	1.6cft / 0.03cbm (estimated)	6-95529-00459-4
LHV414MX	4 channel HD DVR with 1TB HDD & 4 x 1080p Cameras (LBV2521PK4B)	Retail Box	439mm x 325mm x 365mm 15.3" x 12.2" x 14.2"	11 lbs / 4.9 kg (estimated)	1.6cft / 0.03cbm (estimated)	6-95529-00618-5
DVR Includes:	HD DVR with Pre-Installed HDD, HDMI Cable, Remote Control, Power Adapter, Mouse, Ethernet Cable, Quick Start Guides.					
Bullet & Dome Cameras Include:	4, 6, 8, 12, 16 x Cameras, 4, 6, 8, 12, 16 x Mounting Kits with Allen Key, 4, 6, 8, 12, 16 x 60ft/18m BNC / Power Extension Cables, 1, 2 or 4 x Multi-camera power adapters.					
PTZ Camera Includes:	1 x PTZ Camera, 1 x Wall Mount, 1 x Pendant Cap, 1 x 100ft BNC / Power Extension Cable, 4 x Mounting Screws & Anchors, 1x Power Adapter, 4 x O-Rings, 4 x Allen Bolts, 1 x Allen Key, Mounting Template & Instruction Manual.					