



# LH310 Series Edge DVR

**Quick Setup Guide** 

Network Ready, H.264 High Performance Digtial Video Surveillance Recorder

### **PACKAGE CONTENTS:**

- 1 x EDGE DIGITAL VIDEO RECORDER WITH PRE-INSTALLED HDD\*
- 1 x USB MOUSE
- 1 x POWER ADAPTOR
- 1 x DVI/VGA ADAPTOR (8/16-channel only)
- 1 x FLEX IR EXTENDER
- 1 x REMOTE CONTROL\*\*
- 1 x ETHERNET CABLE
- 1 x MOUNTING KIT
- 1 x INSTRUCTION MANUAL
- 1 x QUICK START GUIDE
- 1 x DOCUMENTATION CD
- **DVI TO HDMI CONVERTER CABLE REQUIRED. (NOT INCLUDED)**
- ATTENTION: • \* Channel/ Port configuration and HDD (hard disk drive) capacity may
- vary by model. Check your package for specific content information • \*\*Remote control included with the system may vary depending on model.
- Monitor and Cameras are not included.
- Broadband Router and Computer are required for local and remote monitoring (not included)
- For detailed setup and software information, please refer to your printed User's manual (included).

### It's all on the Web www.lorexcctv.com

For detailed setup information, please refer to your included User's Manual. For additional information. please visit our website www.lorexcctv.com



Easily Connects to a Monitor with a

DVI/VGA Input.

Information in this document is subject to change without notice. As our products are subject to continuous improvement, Lorex Technology INC. and our subsidiaries reserve the right to modify product design, specifications and prices, without notice and without incurring any obligation. E&OE © 2009 LOREX. All rights reserved.

### BASIC SETUP

STEP 1







The LH310 Series Edge DVR is designed to mount securely to the back of LCD monitors with a VESA mount. However, if desired, you can also leave the DVR in a standard horizontal

ATTENTION: YOU CAN ONLY MOUNT THE EDGE DVR TO AN LCD MONITOR WITH A VESA MOUNT AND AN INDEPENDENT STAND.

### Mounting the Edge DVR

Screw the provided mounting screws into the two top holes in the rear panel of your LCD monitor. Make sure the screws are only 3/4 of the way in; this will allow sufficient clearance to hang the Edge DVR.



Carefully place the Edge DVR (front panel facing up) over the screws and slide down into place

# Connecting the Ethernet Cable

Connect one end of the Ethernet cable (for remote monitoring) to one of the router's (not included) LAN ports and the other end to the DVR's Network Port.



# Connecting the USB Mouse

Connect a USB mouse to the USB port on the rear panel of the Edge DVR.



### Connecting the Cameras (not included)

5 Connect BNC cameras to the BNC ports on the rear panel.



### **BASIC SETUP**

**BASIC INSTALLATION GUIDE** 

STEP 1 CONTINUED





### Connecting a Monitor (not included)

Connect the VGA / DVI cable (not included) from your LCD monitor to the VGA port (4 CH) / DVI port (8/16 CH only) on the rear panel of the system.

### Connecting the Flex-IR Extender

7 Connect the Flex-IR extender to the port on the rear panel of the DVR. Position the Flex-IR extender near the front of your monitor, or where it will receive a clear signal from the remote control

### Powering ON the Edge DVR

Connect the power cable to the DC 12V port on the rear panel of the DVR. At startup, the system performs a basic system check and runs an initial loading sequence. After a few moments, the system loads a live display view.

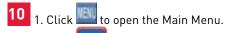
> \*NOTE: Make sure all cameras and cables are properly connected prior to powering on the system.

# Managing Passwords

- The system has the following user authorities:
- ID 1—normal user: Has full control of the system, but cannot change passwords or enable/disable password checking. Default password: 1111
- ID 2—administrator: Has full control of the system but can change both administrator and user passwords and enable/ disable password checking. Default password: 2222 By default, when you first startup your system, you will be logged in as ID 2.

# Setting the Date & Time

M/Y/D.



- 2. Click 🗾 to open the Setup menu.
- 3. Click **Date/Time Setup** and configure the following options: • Date Mode: Use the scroll wheel to select Y/M/D, D/M/Y, or
- Date: Use the scroll wheel to manually enter the date.
- Time: Use the scroll wheel to manually enter the time.
- 4. Click Exit/Update. The new date and time are saved: the system returns to the Setup menu.
- 5. Right click to exit until all menus are closed. The date and time will appear on the bottom-left corner of the screen.

### NAVIGATION AND CONTROLS

STEP 2

BASIC INSTALLATION GUIDE







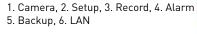




13-

### Using the Main Menu

1 Press the button on the remote control to open the Main Menu.



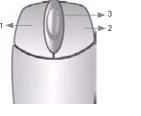
TIP: When navigating menus: Left mouse button: Click to select menu options. Scroll-Wheel: Scroll up/down to change values for selected options.

# Using the Remote Control\*\*

- MENU: Opens the system main menu. E: Press to open the Split-Screen Selection menu (8 / 16-channel only). From full-screen single channel view, changes display view to Quad split-screen (4-channel model only).
- 3. ▲/CH+: Move cursor in menus up; Channel Up. 4. ►/FWD: Move cursor in menus right;
- during playback, increase forward playback speed (5X, 15X, 60X). 5. **◄/REW:** Move cursor in menus left: during playback, increase reverse
- playback speed (5X, 15X, 60X) 6. ► / II: Start/pause forward playback.
- 7. **▼/CH-**: Move cursor in menus down; Channel down.
- 8. -: Confirm menu selections.
- 9. **ESC:** Go back / exit menus.
- 10. **OSD:** Show/hide the on-screen display. 11. LIST: Open the Event List menu.
- 12. T: While in Event List menu, press to delete a selected event (no confirm or undo).
- 13. C: Decrease value of selected menu option.
- 14. 2: Increase value of selected menu
- \*\*Remote control included with the system may vary depending on model.

# Using a Mouse

- Left-Button: Click to select a menu option; while in Quad mode (Live View or Playback), click on channels 1, 2, 3, or 4 to view the selected channel in full-screen.
- Right-Button: Click to return to previous menu- exit menus/modes
- Scroll-Wheel: Scroll up/down to change values in selected menu options; position markers in playback bar.



gratulations! You have completed TEP 1 & 2 successfully. Your DVR is nov eady to use. Refer to the owner's manua o learn how to record, playback, use the earch features and all other features lable with this DVR

# SET-UP LOCAL VIEWING ON YOUR PC

LOCAL VIEWING INSTALLATION GUIDE

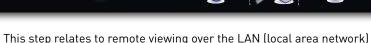
STEP 3











**Retrieve the DVR Information** 

by using a pc located on the same network as that of the DVR.

**NOTE:** It might be necessary to change the IP address of the DVR to match the IP address of your local network. For more details, please see Appendix B: Setting up Local and Remote Viewing in the LH310 Instruction Manual

- 1.Press the button twice on the remote control.
- 1. From the main Menu, click , and then click Information. Your IP address and MAC address are under LAN.
- 2. To exit, right-click or click until you return to the main screen.

Record the IP and MAC Addresses in the section below: MAC ADDRESS : \_\_\_ (Required for DDNS registration)

### **Getting Started** (on your local computer):

Before using DVR Netviewer, you must configure settings in QuickTime® (4-channel only). QuickTime is required for DVR Netviewer to function properly. If not already installed on your system, download QuickTime from www.apple.com/quicktime

### Configuring QuickTime (on your local computer):

- 3 You must configure QuickTime prior to using DVR Netviewer for the first time (4-channel only).
  - To configure QuickTime:
  - 1. With QuickTime installed on your system, open QuickTime by double-clicking the QuickTime icon on your desktop or selecting Start->Programs->QuickTime->QuickTime Player.
- 2. From the QuickTime Player main window, select **Edit** Preferences→QuickTime Preferences.
- 3. From the QuickTime Preferences window, click the **Advanced**
- 4. Under **Transport Setup**, select **Custom.** The Streaming Transport window opens.
- 5. Under Transport Protocol, select HTTP.
- 6. Under Port ID, select 80 and click OK. The Streaming Transport window closes.
- 7. From the **Preferences window**, click **Apply**, and then click **OK**.

LH310 Series Quick Setup Guide - English - R1

### SET-UP LOCAL VIEWING ON YOUR PC

LOCAL VIEWING INSTALLATION GUIDE

STEP 3

CONTINUED







# STEP 4

MONITORING

SET-UP INTERNET REMOTE SECURITY



REMOTE VIEWING INSTALLATION GUIDE

# CONTINUED

MONITORING

STEP 4

REMOTE VIEWING INSTALLATION GUIDE

### SET-UP INTERNET REMOTE SECURITY MONITORING **REMOTE VIEWING INSTALLATION GUIDE**

STEP 4 CONTINUED





# SET-UP INTERNET REMOTE SECURITY MONITORING REMOTE VIEWING INSTALLATION GUIDE

STEP 4

# CONTINUED



### Logging In to DVR Netviewer (on your local computer):

- 1. Launch Internet Explorer.
  - 2. In the address bar, enter the IP address of your DVR (recorded in Step 3-1).
  - 3. In the ID and password fields, enter your network user ID and password and click **LOGIN**.

NOTE: Once you have added and connected to a DVR, you can monitor and control the system in real time.



4. 4 Channel DVR: If necessary, select your MIME type configuration. DVR Netviewer uses Quicktime for live video streaming. Select **No** to maintain your MIME type association with your default media Player. If you select Yes, the MIME types will be associated with QuickTime. Check the box to avoid seeing the MIME type prompt in the future.

Login using your LAN user ID and password (by default, ID 9; password 3333).



- 5. 8/16 Channel DVR: You must install the ActiveX® plug-in for DVR Netviewer to function. Click the attention bar at the top of the main page and select **Install ActiveX Control.** DVR Netviewer will reset.
- 6. Log in with your **LAN** user name and password. From the security window, click Install.

### Local Live Viewing using DVR Netviewer (on your local computer):

By default, DVR Netviewer launches in Live Viewing mode.

### To use Live Viewing (4 channel DVR):

2. Click , , , , to view individual selected channels in full-screen, or click to view channels in quad split-screen mode.

3. To pause the live image, click in the bottom-left corner of the QuickTime window. Click to resume live streaming.

### To use Live Viewing (8/16 channel DVRs):

1. Click

3. Click the Channel buttons to view channels in full-screen





**LOCAL LIVE SITE- 4 CH LOCAL LIVE SITE- 16 CH** 

### Port Forward your Router:

ort forward your router first before proceeding with the set-up. ou must forward • 80 (HTTP port), • 8090 (QuickTime Port - 4 channel only)

All routers are different. To port forward your router, please refer to your router's user manual.

A router configuration guide featuring the most commonly used routers in the market is available on www.lorexcctv.com/support in the Consumer's Guide Section. An example of a port forwarding screen is shown for illustration purposes.

EXAMPLE			Port	Range		
Application	Start		End	Protocol	IP Address	Enable
System	8090	to	8090	Both 💌	192.168.1. 12	V
System	80	to	80	Both 💌	192.168.1. 12	V

### DDNS (Dynamic Domain Name System) Set-up:

Open your web browser (Internet Explorer by default) and enter http://www.lorexddns.net in the address bar.

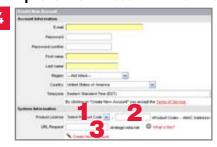


### Create Account:

Open your web browser (Internet Explorer by default) and enter tp://www.lorexddns.net in the address bar.



### Complete New Account Information:



- 1. FOR PRODUCT LICENSE select the LH310 Series option from the drop down menu.
- 2. FOR PRODUCT CODE enter the Monitor's MAC address (recorded in step 3, section 1).
- 3. FOR URL REQUEST enter a unique URL name (e.g. tomsmith). Note: URL name should not be more than 15 characters.

### Registration Email:

Password: (your password)

An automated REGISTRATION CONFIRMATION EMAIL will be sent to your email. Print and Save this confirmation. You will need this information to access your System remotely. Service Provider: dns1.lorexddns.net Domain Name: tomsmith.lorexddns.net User ID: tomsmith

SET-UP INTERNET REMOTE SECURITY

### **Enter DDNS Set-up on your DVR:**



### ATTENTION: You MUST enter your DDNS information LOCALLY before attempting remote access.

- 1. Open Internet Explorer (version 6 or above) and enter the IP address of your DVR in the address bar (i.e. 192.168.xxx.89). DVR Netviewer opens.
- 2. Login using your **LAN user ID** and **password** (by default, **ID 9**; password **3333**).
- 3. Click . The Setup menu opens.
- 4. Under **Network**, click **DDNS**.
- NOTE: By default, your DDNS service is http://www.lorexddns.net
- 5. In the corresponding text fields, enter your **DDNS username** and password.
- NOTE: Obtain this information from the confirmation email after registering for the free Lorex DDNS service.
- 6. Under DDNS Domain Name, enter only the first portion of your DDNS domain from the confirmation email. For example, if your domain name is tomsmith@lorexddns.net, you only need to enter tomsmith in the text field.
- 7. Click **Submit** to save your settings or click **Cancel** to exit without saving.

**NOTE:** Once you have saved your DDNS settings, you must reset your system in order for the changes to take effect. Disconnect and reconnect the power cable from the rear panel to reset. Please allow 10-15 minutes for the DDNS servers to update with your new DDNS address.

### Adding a DVR (on your remote computer):

**NOTE:** Make sure you have connected your DVR to your network prior to using DVR Netviewer.

### **Getting Started** (on your remote computer):

4 Channel DVR: Before using DVR Netviewer, you must configure settings in QuickTime. QuickTime is required for DVR Netviewer to function properly. If not already installed on your system, download QuickTime from www.apple.com/quicktime

### Configuring QuickTime (on your remote computer):

4 Channel DVR: You must configure QuickTime prior to using DVR Netviewer for the first time.

To configure QuickTime:

- 1. With QuickTime installed on your system, launch QuickTime by double-clicking the QuickTime icon on your desktop or selecting Start→Programs→QuickTime →QuickTime Player.
- 2. From the QuickTime Player main window, select **Edit** Preferences→QuickTime Preferences.
- 3. From the QuickTime Preferences window, click the **Advanced**
- 4. Under **Transport Setup**, select **Custom**. The Streaming Transport window opens.
- 5. Under Transport Protocol, select HTTP.
- 6. Under Port ID, select 80 and click OK. The Streaming Transport window closes.
- 7. From the **Preferences window**, click **Apply**, and then click **OK**.

NOTE: For added security, we highly recommend changing HTTP port 80 on the system to any desired port -- the port must not be blocked by your Internet service provider. For more details on changing ports, please see Appendix C: Changing ports on Your System in the LH310 Instruction Manual.

### Logging In to DVR Netviewer (on your remote computer):

- 1. Launch Internet Explorer.
  2. In the address bar, enter the DDNS DOMAIN NAME (e.g. tomsmith) from the Registration Email sent to you.
  - 3. In the ID and password fields, enter your network user ID and password and click **LOGIN**.

NOTE: Once you have added and connected to a DVR, you can monitor and control the system in real time.



4. 4 Channel DVR: If necessary, select your MIME type configuration. DVR Netviewer uses Quicktime for live video streaming. Select **No** to maintain your MIME type association with your default media Player. If you select Yes, the MIME types will be associated with QuickTime. Check the box to avoid seeing the MIME type prompt in the

5. 8/16 Channel DVR: You must install the ActiveX® plug-in for DVR Netviewer to function. Click the attention bar at the top of the main page and select Install ActiveX Control. DVR Netviewer will reset.

6. Log in with your **LAN** user name and password. From the security window, click Install.

# Remote Live Viewing using DVR Netviewer:

By default, DVR Netviewer launches in Live Viewing mode.

### To use Live Viewing (4 channel DVR):

split-screen mode.

- 2. Click . to view individual selected channels in full-screen, or click to view channels in quad
- 3. To pause the live image, click in the bottom-left corner of the QuickTime window. Click to resume live streaming.

### To use Live Viewing (8/16 channel DVRs):

- 1. Click
- 2. Click , 550, 551, 551, to view in Quad or 16-split.
- 3. Click the Channel buttons to view channels in full-screen



**REMOTE LIVE SITE- 4 CH** 

**REMOTE LIVE SITE- 16 CH** 

Congratulations! You have completed Step 3 & 4 successfully. You can now view, playback images on your Local Computer via LAN (local area network) and Remotely control the system on your Remote computer over the Internet (Wide Area Network).

### It's all on the Web www.lorexcctv.com For detailed setup information, please

refer to your included User's Manual. For additional information, please visit our website www.lorexcctv.com



LH310 Series Quick Setup Guide - English - R1