



ECO LH100 Series

Quick Setup Guide

H.264, Internet Remote Viewing, Digital Video Surveillance Recorder

PACKAGE CONTENTS:

- 1 x ECO DIGITAL VIDEO RECORDER WITH PRE-INSTALLED HDD*
- 1 x USB MOUSE
- 1 x POWER ADAPTER
- 1 x REMOTE CONTROL
- 1 x ETHERNET CABLE
- 1 x INSTRUCTION MANUAL
- 1 x QUICK START GUIDE
- 1 x DOCUMENTATION CD



ATTENTION:

- * Channel/ Port configuration and HDD [hard disk drive] capacity may vary by model. Check your package for specific content information.
- Monitor and Cameras are not included.
- Broadband Router and Computer are required for local and remote monitoring [not 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



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BASIC SETUP

BASIC INSTALLATION GUIDE

Time: 20 Minutes | Hand Tools | Skills - Easy

STEP 1

Connecting Cameras (not included)

- 1 Connect up to eight BNC cameras to the BNC ports on the rear panel.

NOTE: Test the cameras prior to selecting a permanent mounting location by temporarily connecting the Cameras and Cables to your DVR.



Connecting the USB Mouse

- 2 Connect a USB mouse to the USB port on the front panel of the ECO DVR.



Connecting a Monitor (not included)

- 3a Connect the VGA cable (not included) from your LCD monitor to the VGA port on the rear panel of the ECO DVR.



OR

- 3b From one of the Video-OUT ports connect a BNC terminated cable to a TV or CCTV monitor.



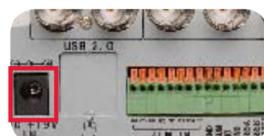
Connecting the Ethernet Cable

- 4 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.



Powering ON the ECO DVR

- 5 Connect the power cable to the DC 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.

BASIC SETUP

BASIC INSTALLATION GUIDE

Time: 20 Minutes | Hand Tools | Skills - Easy

STEP 1

CONTINUED

Managing Passwords

- 6 By default the system password is disabled. It is recommended to enable the password by selecting a secure password in the password menu. You do not have to enter a password upon initial startup.



Setting the Date & Time

- 7 1. Right-click anywhere on the screen to open the Sub-Menu and select **MAIN MENU**.
2. From the Main Menu, click . The Basic Setup menu opens.
3. Click and configure the following options:

- **DATE:** Enter the day, month, and year
- **DATE FORMAT:** Select DD/MM/YYYY, MM/DD/YYYY, or YYYY/MM/DD
- **TIME:** Enter the time
- **TIME FORMAT:** Use the drop-down menu and select **12HOURS** or **24HOURS**
- **DST:** Use the drop-down menu to select ON/OFF to enable/disable Daylight Savings Time
- 4. Click **MODIFY DATE AND TIME**. Click **CLOSE** in the confirmation window.
- 5. Click **APPLY**. The new date and time are saved. Click **CLOSE** in the confirmation window.



NAVIGATION AND CONTROLS

BASIC INSTALLATION GUIDE

Time: 20 Minutes | Skills - Easy

STEP 2

Using the Main Menu

- 1 Right-click anywhere on-screen to open the Sub-Menu and select **MAIN MENU** (mouse only), or press the **MENU/EXIT** button on the remote control or front panel of the system.

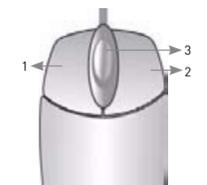
NOTE: If passwords are enabled on the system, you need to select your Device ID and enter the 6-digit numerical password to open the Main Menu.



1. Search 2. Record 3. HDD
4. Basic 5. Advance 6. Exit
7. The Advanced Setup

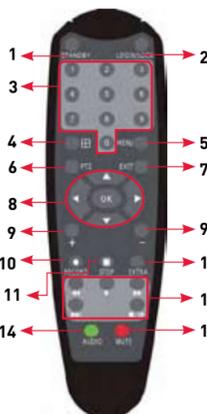
Using a Mouse

- 2 • **Left-Button:** Click to select a menu option; during live viewing in split-screen, double-click on a channel to view the selected channel in full-screen.; double-click the channel again to return to split-screen view.
- **Right-Button:** Click to open the Sub-Menu.
- **Scroll-Wheel:** No function.



Using the Remote Control

- 3 1. **STANDBY:** Press and hold to turn standby mode ON/OFF.
2. **LOGIN/LOCK:** If "Security" has been enabled in the Setup menu, press to open the user password login screen.
3. **Number/Channel buttons:** While in menus, press buttons 0-9 to enter values; during live viewing, press to view channels in full-screen.
4. : Press to switch between quad and split-screen displays.
5. **MENU:** Opens the main menu.
6. **PTZ:** Press to open the PTZ control window.
7. **EXIT:** Close menu windows.
8. **Navigation/OK:**
 - /CH+: Move cursor in menus up; Channel Up.
 - /FWD: Move cursor in menus right; during playback, increase forward playback speed (5X, 15X, 60X).
 - /REW: Move cursor in menus left; during playback, increase reverse playback speed (5X, 15X, 60X)
 - /CH-: Move cursor in menus down; Channel down.
 - **OK:** In menu, press to confirm selections; during playback and preview, press to view system information
9. : In menu, press to adjust values.
10. **RECORD:** Press to start manual recording.
11. **STOP:** Press to stop manual recording.
12. **EXTRA:** Open the system menu.
13. **Playback controls:**
 - : Increase reverse playback speed 1X, 2X, 4X
 - : Press to start playback
 - : Press to increase forward playback speed 1X, 2X, 4X
 - : Press to slow playback speed by 1/2, 1/4, 1/8
 - : Press to freeze playback to one frame, then press again to advance frame-by-frame
14. **AUDIO:** Press to open the Audio recording menu.*
15. **MUTE:** Press to mute listen-in audio on the system.*



*Audio capable cameras (not included) are required for audio recording and listen-in audio functionality.

TIP: When using the remote control to enter password and camera titles, select the field using the navigation buttons, press ENTER, and then press the number buttons.

Congratulations! You have completed STEP 1 & 2 successfully. Your DVR is now ready to use. Refer to the owner's manual to learn how to record, playback, use the search features and all other features available with this DVR.

SET-UP LOCAL VIEWING ON YOUR PC

LOCAL VIEWING INSTALLATION GUIDE

Time: 30 Minutes | Hardware PC/Router | Skills - Intermediate

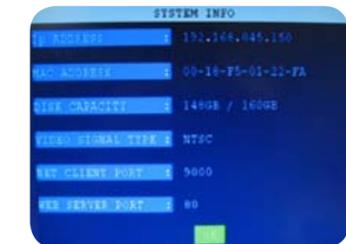
STEP 3

This step relates to remote viewing over the LAN (local area network) by using a PC located on the same network as that of the DVR.

Retrieve the DVR Information

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 LH100 Series Instruction Manual.

- 1 To find the IP and MAC addresses, press the OK button on the front panel of the DVR.



Record the IP and MAC Addresses in the section below:

IP ADDRESS : _____ . _____ . _____ . _____

MAC ADDRESS : _____ : _____ : _____ : _____ : _____ : _____

(Required for DDNS registration)

Logging In to DVR Web Application Manager

(on your local computer):

- 2 1. Launch **Internet Explorer**.
2. In the address bar, enter the **IP address of your DVR** [recorded in Step 3-1]. (e.g. <http://192.168.1.16>)
3. Password - by default there is no password, leave it blank. Remote password can be enabled in the remote software setup menu.
4. In the **NETWORK** drop down menu select **LAN**.
5. Click **LOGIN**



SET-UP LOCAL VIEWING ON YOUR PC

LOCAL VIEWING INSTALLATION GUIDE

STEP 3

Time: 30 Minutes

Hardware
PC/Router

Skills - Intermediate

CONTINUED



Local Live Viewing using DVR Web Application Manager (on your local computer):

- By default, DVR Web Application Manager launches in Live Viewing mode.

To use Live Viewing:

- Click **LIVE** at the top of the main screen.
- Click the display mode icons to view the main screen in **single-channel, quad, or split-screen** configurations. You can also double-click a channel at any time to view it in single-channel.



LOCAL LIVE SITE

Congratulations! You have completed Step 3 successfully. You can now view, playback video on your Local Computer via LAN (local area network).

SET-UP INTERNET REMOTE SECURITY MONITORING

REMOTE VIEWING INSTALLATION GUIDE

STEP 4

Time: 60 Minutes

Hardware
PC/Router

Skills - Advanced

CONTINUED



Port Forward your Router:

- Port forward your router first before proceeding with the set-up. You must forward Port: 9000, Web Port: 80. 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.

Application	Start	End	Protocol	IP Address	Enable
System	9000	to 9000	Both	192.168.1.12	<input checked="" type="checkbox"/>
System	80	to 80	Both	192.168.1.12	<input checked="" type="checkbox"/>

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:

- Click **Create Account** on the LOREX website.

Complete New Account Information:

- FOR PRODUCT LICENSE select the **LH100 Series** option from the drop down menu.
- FOR PRODUCT CODE enter the MAC address (recorded in step 3, section 1).
- FOR URL REQUEST enter a unique URL name (e.g. tomsmith). Note: URL name should be as short as possible, no more than 15 characters.

SET-UP INTERNET REMOTE SECURITY MONITORING

REMOTE VIEWING INSTALLATION GUIDE

STEP 4

Time: 60 Minutes

Hardware
PC/Router

Skills - Advanced

CONTINUED



Registration Email:

- 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
Password: (your password)

Enter DDNS Set-up in your DVR:

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

- From the **MAIN** menu, click the **ADVANCE** menu to enter the **NETWORK** Setup menu. Click **DDNS SETTINGS**.
- Under DDNS, select **ON**.
- Under SERVICE, select **LOREX**.
- Under 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.
- Enter your Lorex DDNS **user name** and **password** in the respective fields.

NOTE: Obtain this information from the confirmation email after registering for the Lorex DDNS service.

- Click **APPLY**. Once the DDNS status shows successful registration, click **CLOSE** in the confirmation window.
- Click **EXIT**. You will be prompted to restart the system. Click **CLOSE**.

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

SET-UP INTERNET REMOTE SECURITY MONITORING

REMOTE VIEWING INSTALLATION GUIDE

STEP 4

Time: 60 Minutes

Hardware
PC/Router

Skills - Advanced

CONTINUED



Logging into DVR Web Application Manager (on your remote computer):

- Launch **Internet Explorer**.
- In the address bar, enter the **DDNS DOMAIN NAME** from the Registration Email sent to you. [e.g. <http://tomsmith.lorexddns.net>]
- Password - by default there is no password, leave it blank. Remote password can be enabled on the remote software only. Check the user manual for more information.
- In the **NETWORK** drop down menu select **INTERNET**.
- Click **LOGIN**



Log in using your ADMIN system password. If you have not enabled passwords on the system, leave the password field blank.

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 LH100 Series Instruction Manual.

SET-UP INTERNET REMOTE SECURITY MONITORING

REMOTE VIEWING INSTALLATION GUIDE

STEP 4

Time: 60 Minutes

Hardware
PC/Router

Skills - Advanced

CONTINUED



Remote Live Viewing using DVR Web Application Manager (on your remote computer):

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To use Live Viewing:

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- Click the display mode icons to view the main screen in **single-channel, quad, or split-screen** configurations. You can also double-click a channel at any time to view it in single-channel.



REMOTE LIVE SITE

Congratulations! You have completed Step 4 successfully. You can now view, playback video and Remotely control the system on your Remote computer over the Internet WAN (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

