LOREX VANTAGE

Quick Setup Guide

ECO+ LH120 Series
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 CD

ATTENTION:

- This guide refers only to the DVR set-up.
- DVR model, number of channels/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

For additional information, please visit:
www.lorextechnology.com

*** For setup of Instant Mobile Viewing refer to your User's Manual.**

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BASIC SETUP

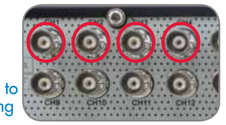
STEP 1

BASIC INSTALLATION GUIDE
Time: 20 Minutes | Hand Tools | Skills - Easy

Connecting Cameras (not included)

1 Connect BNC cameras to the BNC ports (**VIDEO INPUT**) on the rear panel.

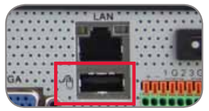
NOTE: Test the cameras prior to selecting a permanent mounting location by temporarily connecting the cameras and cables to your DVR.



NOTE: the 16 channel model is shown

Connecting the USB Mouse

2 Connect the USB mouse to the top USB port on the back panel of the DVR.



Connecting a Monitor (not included)

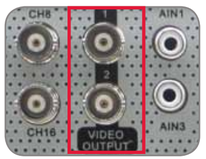
3a Connect an VGA cable (not included) from your LCD monitor to the VGA port on the rear panel of the DVR.

OR

3b Connect an HDMI cable (not included) from your TV or LCD monitor to the HDMI port on the rear panel of the DVR.

OR

3c From one of the **VIDEO OUTPUT** ports connect a BNC terminated cable (not included) to a TV (RCA) or CCTV monitor (BNC).



Connecting the Ethernet Cable

4 Connect one end of the Ethernet cable to an available LAN port of your router (not included) and the other end to the DVR's Network Port (LAN).

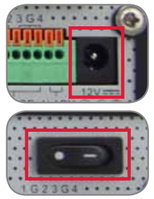
BASIC SETUP

STEP 1 Continued

BASIC INSTALLATION GUIDE
Time: 20 Minutes | Hand Tools | Skills - Easy

Powering ON the DVR

5 Connect the power cable to the DC 12V port on the rear panel and the power cord into an electrical outlet. To power on the DVR, turn the ON/OFF switch to the ON position. 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.

Setting the Date & Time

6 1. Move the mouse cursor to the bottom of the screen to open the menu bar and select **MAIN MENU**.
2. Click **SYSTEM**.
3. Configure the date and press **APPLY** to save your settings. Click **OK**. To finish, press **EXIT**.

It is important to set the correct time to assure accurate time stamps on video recordings.

NOTE: By default, passwords are disabled on the system (username and password are blank). You do not need to enter a password when accessing any system menus. For security purposes, it is highly recommended to enable passwords on the system by clicking on System and then Users.

NAVIGATION AND CONTROLS

STEP 2

BASIC INSTALLATION GUIDE
Time: 20 Minutes | Skills - Easy

Using the Main Menu

1 Open the menu bar and select **MAIN MENU** (mouse only), or press the **MENU/ESC** button on the remote control or on the system front panel of the DVR.

1. Display
2. Search
3. Alarm
4. System
5. Record
6. Network
7. Device
8. Advanced

Using a Mouse (Recommended)

2 1: 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.
2: Right-Button: Click to open the Menu Bar or to exit from a menu.
3: Scroll-Wheel: No function.

Other Control Options

3 The DVR can also be controlled using the front panel buttons and the included remote control.

Front Panel Buttons

Remote Control

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

SET-UP LOCAL VIEWING ON YOUR PC

STEP 3

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

Retrieve the DVR Information

1 This step will teach you how to locally view your system over the LAN (local area network) using your PC.

NOTE: This method only works if your computer is on the same network as the DVR.

To record your IP Address, Mac Address and HTTP Port open the menu bar and click **Main Menu>System>Info**

Record the information in the section below:
IP ADDRESS: _____.____.____.____
MAC ADDRESS: ____:____:____:____:____:____
(Required for DDNS registration)
HTTP PORT: _____

Logging into Lorex Web Client (LOCALLY)

2 1. Launch **Internet Explorer.**
2. In the address bar, enter the **IP address of your DVR** (recorded in the previous step)
NOTE: Enter http:// followed by the IP address of your DVR (recorded in step 3-1), then a colon followed by the HTTP Port number
i.e. http://192.168.X.XXX:80

3. Enter your **user name** and **password**, then click **LOGIN.**

Your default login:
Username is "**admin**"
Password is left blank

4. You must install the ActiveX® plug-in for DVR Web Client to function. Click the attention bar at the top of the main page and select **Install ActiveX Control.** Lorex Web Client will reset.
5. Log in with your **LAN** user name and password. From the security window, click **Install.**

Live Viewing Using the Web Client (LOCALLY)

3 Upon login, the Web Client main screen appears in your browser.

Congratulations! You can now view & playback video on your PC via your LAN.

STEP 4

REMOTE INSTALLATION GUIDE

Time: 20 Minutes | Hardware: PC | Skills - Intermediate

1 Auto Port Forward Wizard

NOTE: You must be on the same network as the DVR when setting up the DDNS.

The Lorex Auto Port Forwarding Wizard is a software that automates router port forwarding.

You must have the following before you configure the software:

1. Your router's **model** and **version** numbers
2. Your router's **user name** and **password**
3. Your Lorex device's **IP** address **(recorded in Step 3-1)**
4. Your Lorex device's **port** numbers that require port forwarding (80, 9000, 1025)

2 Installation

1. Insert the software CD, and follow the instructions to launch the **Lorex Auto Port Forwarding Wizard** software.

NOTE: The Wizard is PC compatible only. Mac users, please go to Step 4-4.

3 1: Populate the Router Database

The Auto Port Forwarding Wizard automatically populates a list of current routers, and detects the number of connected routers.

1. Click **Next** after the software detects your router configuration.

2: Enter your Router Settings

1. Under the Router drop-down list, select the model of your router **OR** click the **Search** button to enter the name of your router model.

NOTE: Ensure you select the proper model and firmware number of the router (as it appears on the back of the router)

IMPORTANT: Default ports that must be port forwarded for remote access:
Port **80** (HTTP Port)
Port **9000** (Client Port)
Port **1025** (Mobile Connectivity Port)

NOTE: Click the **Try to Auto Detect** button if you have a Linksys or Netgear router (this works with most models).

2. Under **Router IP**, click the **Detect Router IP button**. The router's IP populates in the blank field.
3. Under **Username** and **Password**, enter the router's username and password.
4. Under **IP**, enter the IP address of your Lorex device as recorded in Step 3-1.
5. Under **Port**, enter the port number(s) that require forwarding (80, 9000, 1025).
6. Click **Next** to continue.

STEP 4 Continued

3: Update the Router Settings

1. Click the **Update Router** button. The program begins updating the router settings. This may take 20 - 30 seconds.
2. Close the **update** window when the update finishes.

NOTE: You may have to manually save your router settings after the software makes the required changes to your router.

4: Test your Connection

1. Click the **Test Connection** button. Your system's default browser opens and connects to your Lorex device.

NOTE: Ensure that Internet Explorer is your system's default internet browser.

4 Optional: Manual Port Forward

If you were unable to port-forward your router automatically using the wizard, you will need to manually forward ports 80, 9000 and 1025 to your DVR's IP address.

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

An example of a port forwarding screen is shown for illustration purposes.

EXAMPLE

Application	Start		End	Protocol	IP Address	Enable
					Port Range	
HTTP	80	to	80	Both	192.168.1. 12	☑
Client	9000	to	9000	Both	192.168.1. 12	☑
Mobile	1025	to	1025	Both	192.168.1. 12	☑

5 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.

STEP 4 Continued

6 Create Account

1. Click **Step 1**
2. Create a new My Lorex account or sign in using an existing account.

7 Complete New Account Information

NOTE: Warranty Registration is required for DDNS.

1. Click **Warranties**.
2. Click **Activate Warranty**.
3. Under Your Address, select an address or click **Enter a New Address** to create a new address. Fill in your address information and click **Create Address**.

3. Fill in the warranty registration form with your product and purchase details and click **Save Warranty**. Check the sticker underneath your DVR for the Product Model Number and Serial Number.

4. Click **Set Up a New DDNS**.

5. Fill out the My DDNS form:

- **Product Warranty**: Select the product warranty you created in the previous steps.
- **Device Name**: Enter a name for your device. You can enter your name, business name, or anything of your choice.
- **MAC Address**: Enter the MAC address of your Lorex system recorded in Step 3-1.
- **URL Request**: Enter the web site address that will be used to connect to your Lorex system.

NOTE: URL Request should not be more than 15 characters.

6. Click **Save** to register your product for DDNS. A DDNS registration confirmation email will be sent to the email address used to register for My Lorex.

STEP 4 Continued

8 Registration E-mail

An automated **REGISTRATION CONFIRMATION E-MAIL** will be sent to your email. Print and Save this confirmation. You will need to enter it into your system to enable remote access.

Domain Name/URL Request: tomsmith
DDNS User Name: tomsmith
DDNS Device Password: (your password)

EXAMPLE

9 Enable DDNS on the DVR

1. Click on **Main Menu** from the menu bar, then click **Network**.
2. Click **DDNS**.
3. Select **Enable** in the **DDNS** drop-down menu.

10 Enter the DDNS Information into the DVR

Enter the following into the **DDNS Setup** menu:

- **Host Name**: Enter the Domain Name/URL Request that was emailed to you after DDNS registration.
- **User Name**: Enter your DDNS User Name that was emailed to you after DDNS registration.
- **Password**: Enter your DDNS Device Password that was emailed to you after DDNS registration.

Click **Apply** to save your settings.

NOTE: Please allow 10~15 minutes for the DDNS servers to update with your new DDNS address. This is normal for the DDNS system.

11 Logging into DVR Web Client (REMOTELY)

To access your DVR remotely, enter the DDNS address that you created earlier into Internet Explorer. The DDNS address must include **http://** , your URL request, followed by **.lorexddns.net**, a **colon**, then the **HTTP port number of your DVR**.

Example of a DDNS address:
http://tomsmith.lorexddns.net:80
URL Request | Colon | HTTP Port Number

STEP 4 Continued

Installing ActiveX Plug-ins

When connecting to your system the first time, you will have to install an ActiveX plug-in for Internet Explorer.

To install ActiveX® plug-ins on Internet Explorer:

1. Log in to your system using Internet Explorer.
2. Click the ActiveX banner near the top of the browser, and then click **Run Add-on**.

Logging into the System

1. Enter the **user name** and **password**, as shown below.

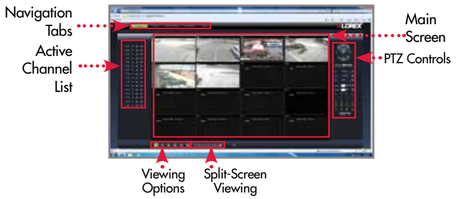
Default login:
Username is "**admin**"
Password is left blank

3. Select the Open All Channels Preview check box.
4. Click **Login** to connect to the system.

NOTE: Certain ISP (Internet Service Providers) block port 80. If you are unable to connect, check with your ISP and consult with the user manual for instructions on changing the HTTP Port. Make sure to port forward your revised HTTP Port.

Lorex Web Client Screen

Upon login, the Web Client main screen appears in your browser.



For a full explanation of all the Web Client buttons and features, please refer to the User's Manual.

Congratulations! You have completed Step 4 successfully. You can now connect over the internet to view and playback video.

Instant Mobile Viewing

For Instant Mobile Connectivity using a Smart Phone refer to the instruction manual.

To connect using Mac, please see the instruction manual.

Make sure to complete Step 4 entirely.