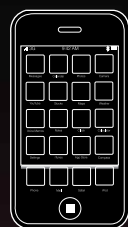


Quick Setup Guide

LH600 Access Series



Instant
Mobile
Viewing

Easy Connect
Wizard

PACKAGE CONTENTS:

- 1 x Digital Video Recorder with pre-installed HDD*
- 1 x Power Adapter
- 1 x Remote Control
- 1 x Mouse
- 1 x Ethernet Cable
- 1 x DVI to VGA Adapter
- 1 x User Manual
- 1 x Quick Start Guide
- 1 x Software CD

ATTENTION:

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

* For setup of Instant Mobile Viewing and MAC Compatibility refer to your User Manual.

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 © 2010 LOREX. All rights reserved.

BASIC SYSTEM SETUP

STEP 1

BASIC INSTALLATION GUIDE

Time: 20 Minutes | Hand Tools | Skills - Easy



Connecting Cameras (not included)

- 1 Connect the 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 system.



Connecting the USB Mouse (not included)

- 2 Connect a USB mouse to the USB port on the rear panel of the system.



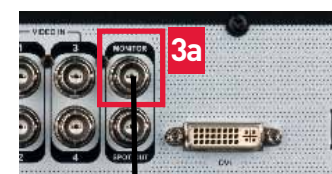
Connecting a Monitor

- 3a From the Monitor-OUT BNC port connect a BNC terminated cable to the RCA OUT of the LCD monitor (not included).

OPTIONAL



Tip: Adjust the contrast and brightness of your monitor and the camera(s) color settings to optimize the image quality.



Connect one end of the monitor's power cable to its power port and the other end to the power outlet. Press the **DISPLAY** button at the front panel of the DVR repeatedly until you reach the desired display mode (i.e. full screen, quad, auto-sequence).

OR

- 3b Connect the included DVI to VGA adapter to the DVI port at the back of the DVR. Connect the VGA/DVI Cable from the LCD monitor (not included) to the VGA/DVI adapter.



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.



Connecting the Power Cable

- 5 Connect the power cable to the DC 12V port on the rear panel of the system; connect the power adaptor to an outlet, power strip, or surge protector. Wait for the system to boot up into the main screen.



BASIC SYSTEM SETUP

STEP 1

CONTINUED

BASIC INSTALLATION GUIDE

Time: 20 Minutes | Hand Tools | Skills - Easy



Quick Menu (Mouse option only)

- 6 The **Quick** menu gives you an overview of all the available settings on your DVR. To open **Quick** Menu:

1. Right-click anywhere on the screen in the main viewing window **OR**
2. Press the **MENU** button on the front panel.

NOTE: If you are configuring the system, you cannot open **Quick** menu.



By default, the system does not require a password to login.

TIP: It is recommended to change the default password after the initial setup is complete.

Default
USER ID : ADMIN (case sensitive)
PASSWORD: 1234

The Virtual Keyboard

The system automatically opens the virtual keyboard when you double-click a blank field, or when you need to enter system information.

To use the Virtual Keyboard:

1. Click any desired letter, number, or character.

NOTE: Click "A" to shift between upper and lowercase letters.



Setting the Date & Time

- 7 1. Right-click anywhere on in the main viewing window to open the **Quick** menu.
2. Click **SYSTEM SETUP**. The System Setup window opens.

3. Click **SYSTEM**. The System window opens.
4. Beside **DATE TIME**, click on the time (yyyy/mm/dd; hh/mm/ss) and adjust the values using the buttons.

OR

- Double-click the values to open the number window to input the values.
5. Beside **DATE FORMAT**, use the button to adjust the date format.
 6. Click **APPLY** to save your settings.



NOTE: It is highly recommended to set the time on the system prior to doing any recording. All recording must be stopped on the system in order to set the time.

NAVIGATION AND CONTROLS

STEP 2

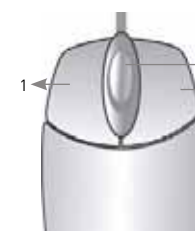
BASIC INSTALLATION GUIDE

Time: 20 Minutes | Skills - Easy



Mouse

- 1 **Left-Button:** While in a split-screen display mode, double-click an individual channel to view it in full-screen; double-click again to return to the split-screen display mode. While navigating menus, click to select a menu option. **Right-Button:** Right-click anywhere on the screen to open the Quick Menu. **Scroll-Wheel:** N/A



Main Menu

- 2 Right click anywhere on the monitor screen and from the **QUICK** menu, select **SYSTEM SETUP** to access the **MAIN MENU** options.

1. **DISPLAY**
2. **CAMERA**
3. **SOUND**
4. **SYSTEM**
5. **EVENT/SENSOR**
6. **DISK MANAGE**



Direction Pad

- 3 Use the direction pad to navigate through the system menus.



Powering On/Off the System

To power on the system:

1. Press the **POWER** button on the remote control or front panel. The system powers on. Wait for the system to boot up into the main screen. By default, the system begins recording continuously from any connected cameras.

To power off the system:

1. Press the **POWER** button on the front panel of the system. A confirmation window opens.
2. Click **YES** to shut down the system. **OR**
3. Right-click anywhere on the screen. The **Quick** Menu opens.
4. Click **SHUTDOWN**. A confirmation window opens.
5. Click **YES** to shut down the system.



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

SET-UP LOCAL VIEWING ON YOUR PC

STEP 3A

ON YOUR PC

REMOTE VIEWING INSTALLATION GUIDE

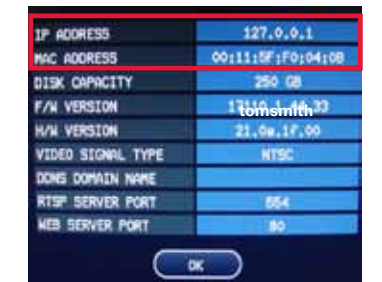
Time: 60 Minutes | Hardware PC/Router | Skills - Advanced



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

Retrieve the System Information

- 1 Right-click in the main viewing window to open the **Quick** Menu.
2. Click **SYSTEM SETUP**→**SYSTEM**→**SYSTEM MANAGEMENT**
3. Beside **SYSTEM INFORMATION**, click the **PRESS** button.



Record the IP and MAC Addresses in the section below:

IP ADDRESS : ____ . ____ . ____ . ____

MAC ADDRESS : ____ : ____ : ____ : ____ : ____ : ____

(Required for DDNS registration)

- 2 1. Launch **Internet Explorer**.
2. In the address bar, enter the **IP address of your System** recorded in the previous step.

NOTE: Enter http:// followed by the IP address of your system, then a semi-colon, and then the HTTP Port number (i.e. <http://192.168.X.XXX:80>).



- 3 Enter in your System's User ID and Password.

USER ID: ADMIN, PASSWORD: 1234. The Web Remote Viewer window opens.

- 4 Click the Active X menu bar near the top of the browser. Click **Install ActiveX Control**.

- 5 Click **Install** when the security window opens.

- 6 Click the ActiveX toolbar when the main Web Remote Viewer window opens. Click **Install ActiveX Control**.

- 7 Click **Install** when the security window opens. The Web Remote Viewer automatically detects and connects to your system after the ActiveX plug-in installs.

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



LOCAL LIVE SITE

LOREX EASY CONNECT INTERNET REMOTE MONITORING ADVANCED

STEP 3B

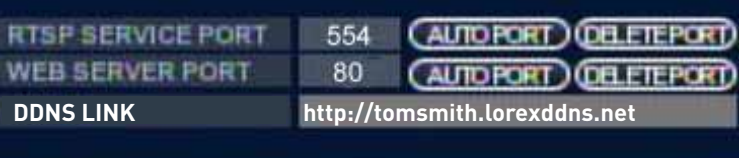
ON YOUR SYSTEM

REMOTE VIEWING INSTALLATION GUIDE

Time: 60 Minutes | Hardware PC/Router | Skills - Advanced

This step offers more advanced internet remote monitoring features.

1 Auto Port Forward (via System with UPNP enabled Router):



- To enable auto port forwarding:
- Right click to open the **Quick** menu.
 - Select **SYSTEM SETUP** and click on the **SYSTEM** menu.
 - Select **NETWORK**.
 - Beside **RTSP SERVER PORT**, click the **AUTO** button. A success message appears.
 - Beside **WEB SERVER PORT**, click the **AUTO** button. A success message appears.
- Note:** Default RTSP Server Port is **80**. Default Web Server Port is **554**
- Under **DDNS LINK** make sure the DDNS link appears.
(e.g. <http://tomsmith.lorexddns.net>). Use this URL for Remote Access (WAN).
 - Press **APPLY** to save your changes.

NOTE: The Auto Port feature works with UPNP (Universal Plug & Play) routers only. If you do not get a **SUCCESS** message, your router may not be compatible with this feature. Use the Auto Port Forwarding Wizard to automatically configure your router.

NOTICE

SUCCESS

Go To Step 3B6

WARNING

FAIL/NO DEVICE

Go To Step 3B2

Instant Mobile Viewing

For Instant Mobile Connectivity using a Smart Phone, refer to the User Manual. Make sure to complete Port Forwarding Step 3B.

LOREX EASY CONNECT INTERNET REMOTE MONITORING ADVANCED (AUTO PORT FORWARD WIZARD)

STEP 3B

CONTINUED

OPTIONAL

ON YOUR PC

2 Auto Port Forward Wizard

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

- You must have the following before you configure the software:
- Your router's **model** and **version** numbers
 - Your router's **user name** and **password**
 - Your Lorex device's **IP** address
 - Your Lorex device's **port** numbers that require port forwarding

3 Installation

- Insert the system's software CD, select the **Lorex Easy Connect Internet Setup Wizard** and follow the instructions to register, download and launch the Wizard.

4 Step 1: Populate the Router Database

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

- Click the **Next** button after the software detects your router configuration.



Step 2: Enter your Router Settings

- 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.



- NOTE:** Click the **Auto Detect** button if you have a Linksys or Netgear router (works with most models).
- Under **Router IP**, click the **Detect Router IP** button. The router's IP populates in the blank field.
 - Under **Username** and **Password**, enter the **router's** username and password.
 - Under **IP**, enter the IP address of your Lorex device as recorded in Step 3A-1.
 - Under **Port**, enter the port number(s) that require forwarding (80, 554).
 - Click **Next** to continue.

Step 3: Update the Router Settings

- Click the **Update Router** button. The program begins updating the router settings. This may take 20 - 30 seconds.
- 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.

Step 4: Test your Connection

- Click the **Test Your 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.

To Log in
USER ID: **ADMIN**
PASSWORD: **1234**

PROCEED TO
STEP 3B-6.

LOREX EASY CONNECT INTERNET REMOTE MONITORING ADVANCED

STEP 3B

CONTINUED

DDNS

ON YOUR PC

5 Manual Port Forward (optional):

If you were unable to port-forward your router automatically using the wizard, you will need to do so manually.

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.

Ports: **80 (Web Port)**, **554 (TCP/IP port)**.

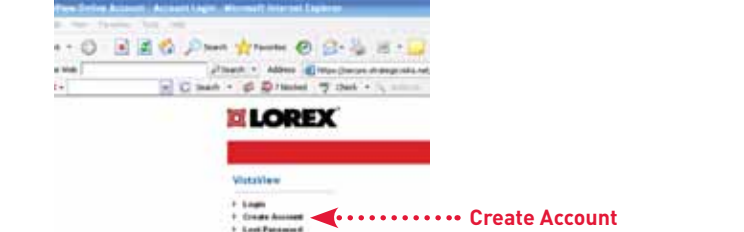
EXAMPLE					
Application	Start	End	Protocol	IP Address	Enable
System	80	to 80	Both	192.168.1.12	☒
System	554	to 554	Both	192.168.1.12	☒

6 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.



7 Create Account:



8 Complete New Account Information:



- For **PRODUCT LICENSE** select the **LH600 Series** option from the drop down menu.
- For **PRODUCT CODE** enter the Monitor's **MAC** address (recorded in step 3A-1).
- For **URL REQUEST** enter a unique URL name (e.g. **tomsmith**).
NOTE: URL name should not be more than 15 characters.

LOREX EASY CONNECT INTERNET REMOTE MONITORING ADVANCED

STEP 3B

CONTINUED

DDNS

ON YOUR PC & SYSTEM

9 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)

10 Enter DDNS Set-up on your DVR



- To enable DDNS on your system:
- Right-click anywhere in the main viewing window to access the **QUICK** menu.
 - Select **SYSTEM SETUP** and click on the **SYSTEM** menu.
 - Select **NETWORK**.
 - Select **DDNS**. Your selection adds a 'yellow' checkmark in the DDNS box.
 - Beside **DDNS SERVER** double-click the blank field. A **DDNS SETUP** window opens.



- DDNS SERVER NAME** by default is **LOREX**.
- Beside **DOMAIN NAME**, double-click the blank field. The Virtual Keyboard opens.
- Enter only the first portion of your **DDNS domain** from the confirmation email. (e.g. if your domain name is tomsmith@lorex.ddns.net, you only need to enter "tomsmith" in the text field.
- Click **OK** to save your settings.
- Beside **USER ID**, double-click the blank field. The Virtual Keyboard opens.
- Enter your **Lorex DDNS User ID**.
- Click **OK** to save your settings.
- Beside **PASSWORD**, double-click the blank field. The Virtual Keyboard opens.
- Enter your **Lorex DDNS password**.
- Click **OK** to save your settings.
- NOTE:** Select **DDNS STATUS** to verify the DDNS connection. A **Success** message appears if DDNS is running properly. Click **OK**.
- Select **APPLY** to save your settings or select **UNDO** to restore defaults.
- Select **CLOSE 'X'** to exit the menu screen.

LOREX EASY CONNECT INTERNET REMOTE MONITORING ADVANCED

STEP 3B

CONTINUED

DDNS

ON YOUR PC

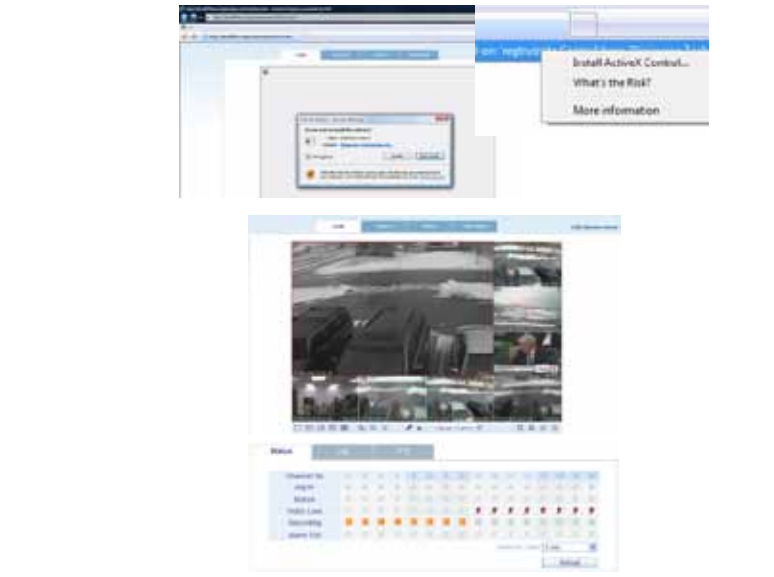
12 Logging into Web Remote Viewer (REMOTELY):

- On your computer, open Internet Explorer (PC) or Safari (Mac) and type in the **DDNS DOMAIN NAME**. You can acquire this from the **DDNS Registration Email** sent to you.



- A login window appears.
- Enter in your System's User ID and Password.**
USER ID: ADMIN, PASSWORD: 1234. The Web Remote Viewer window opens.
- Click the Active X menu bar near the top of the browser. Click **Install ActiveX Control**.
- Click **Install** when the security window opens.
- Click the ActiveX toolbar when the main Web Remote Viewer window opens. Click **Install ActiveX Control**.
- Click **Install** when the security window opens. The Web Remote Viewer automatically detects and connects to your system after the ActiveX plug-in installs.

NOTE: Remote viewing is only compatible with Internet Explorer & Safari (Safari supports Viewing only and does not support Search or PTZ controls). Other browsers are not supported.



REMOTE LIVE SITE*
***If you are unable to connect remotely over the internet make sure to perform steps 3B3 to 3B5 Auto Port Forwarding Wizard.**

Congratulations! You have completed 3B successfully. You can now view, playback images on your Remote Computer via WAN (wide area network) and Remotely control the system on your Remote computer over the Internet (Wide Area Network).