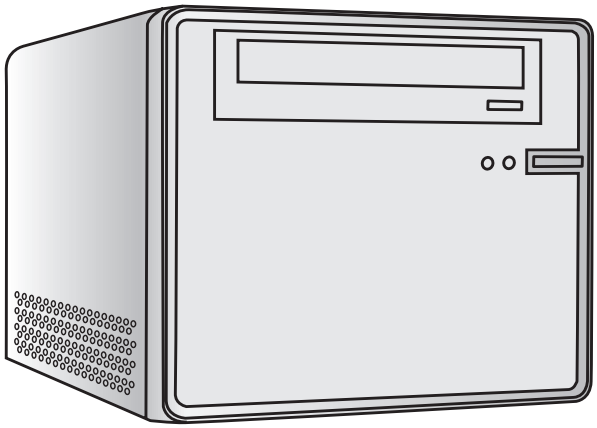
Light System Manager



Quick Start Guide

PHILIPS

1 Light System Manager Documentation

Light System Manager controller is an integrated hardware and software solution optimized for medium and large-scale LED lighting applications. This Quick Start Guide describes the essential steps required to set up Light System Engine (LSE) hardware and install Light System Composer (LSC) show authoring and configuration software. The following documents are also available to help you fully realize the potential of your complete lighting system:

Document Name	Online Location	Included with LSM
LSM Installation Instructions	www.colorkinetics.com/ls/controllers/lsm/	Printed booklet
LSM Product Guide	www.colorkinetics.com/ls/controllers/lsm/	
LSM User Guide	www.colorkinetics.com/ls/controllers/lsm/	
Lighting Fixture Wiring Diagrams	www.colorkinetics.com/support/wiring/	

2 Network Configuration Overview

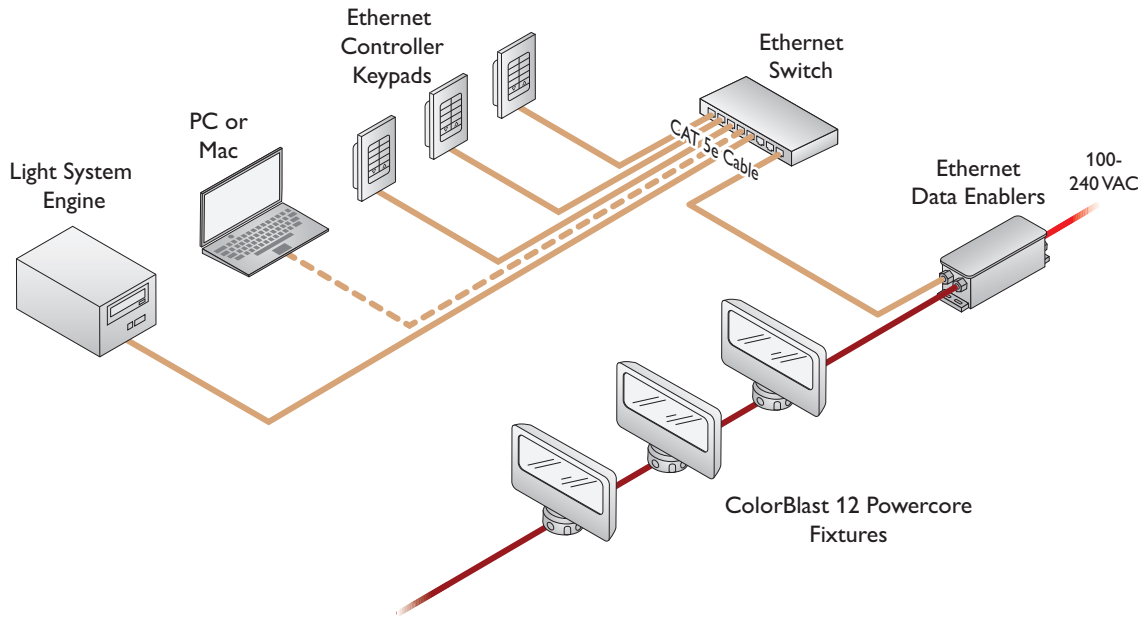
The Light System Manager system comprises Light System Engine, a computer (used for initial setup and programming), one or more Controller Keypads (optional), network hardware, data interfaces, and the lighting fixtures.

Isolated Network

Light System Engine hardware is designed for use in a switched Ethernet infrastructure. Because LSE manages network traffic and functions as an IP address server, the entire lighting system, including all fixtures, must be installed on an isolated LAN (Local Area Network). Note that the maximum cable run between any Ethernet devices is 328 feet (100 m).

Ethernet Switches

Ethernet switches are used to connect all components of an LSM installation, routing information between all equipment connected to the network. Since Ethernet uses a star topology to enhance data throughput, every component must be connected directly to a switch. Use a Gigabit (10 / 100 /1000) switch for the first layer of the network (the layer connected to the LSM), and use either Gigabit or Fast Ethernet (10 / 100) switches for the second and third layers of the network. If installing Ethernet Controller Keypads, use PoE (Power over Ethernet) compatible switches, or install PoE injectors from Philips Color Kinetics.



3 System Requirements

A computer (PC or Mac) installed on the isolated network enables you to author shows and upload configuration files to the LSE. Verify that your computer meets the following minimum specifications:

Windows®	Windows® XP / Vista 256 MB RAM 10 MB free disk space CD-ROM or DVD drive	Mac OS X	Mac OS X 10.4.9 or greater 256 MB RAM 10 MB free disk space CD-ROM or DVD drive

4 Hardware Installation

Install LSE Hardware

Place the Light System Engine in a secure indoor location that meets environment specifications and is accessible to the isolated network. Refer to the *LSM Product Guide* for detailed hardware specifications.

Set Up the LSE

Connect the power and network cables to the LSE, leaving 6 in (152 mm) of cable clearance at the back of the unit. Connect the network cable to an Ethernet switch, then power on the LSE.

Set Up a Computer

Connect the power and network cables, then connect the network cable to a switch. When you power on the computer, it should automatically receive an IP address from the LSE. Note that you can remove the computer from the network once all light show and configuration files are uploaded to the LSE.

Test Connectivity

To test the computer's network connectivity, open to the LSE interface by entering 10.1.3.100 in a web browser. You should be able to access the web-based interface, which displays system information and the LSE log files.

Tip

To connect with LSE interface, the computer must be set up to automatically obtain an IP address. Use the instructions below to configure automatic addressing, as needed.

5 Configure Automatic IP Addressing (optional)

Automatic IP Address Configuration for Windows®

1. From the **Start** menu, select **Control Panel**.
2. Select **Network Connections**, disable any wireless network interfaces, then double-click the connected **Local Area Network** icon.
3. In the **Local Area Connection Status** window, select **Properties**.
4. In the **Local Area Connection Properties** window, highlight **Internet Protocol (TCP/IP)**, then click **Properties**.
5. Click the radio buttons to select **Obtain an IP address automatically** and **Obtain DNS server address automatically**. Click **OK**.
6. Click **OK** to return to the **Local Area Connection Status** window, then click **Close** and restart the computer.

5 Configure Automatic IP Addressing (continued)

Automatic IP Address Configuration for Mac OS X

1. From the **Apple** menu, or the Dock, select **System Preferences**.
2. Click the **Network** icon, then select **Automatic** from the **Location** drop-down list.
3. Select the Ethernet connection:
   - In Mac OS X 10.4, select **Built-in Ethernet** from the **Show** drop-down list.
   - In Mac OS X 10.5, select **Ethernet** from the left-side menu.
4. If using Mac OS 10.4, select the **TCP/IP** tab.
5. Configure DHCP addressing:
   - In Mac OS X 10.4, select **Using DHCP** from the **Configure IPV4** drop-down list.
   - In Mac OS X 10.5, select **DHCP** from the **Configure** drop-down list.
6. Click **Apply Now**, then reboot the system.

After setting up automatic IP addressing, if still you cannot connect to LSE interface, disable all antivirus software, firewall protection, and VPN connections. Verify that all wireless network adapters are also disabled.

6 Installing Light System Composer Software

Windows® Installation

1. Insert the Light System Composer software CD into the CD-ROM or DVD drive on the Windows® PC.
2. Double-click **setup.exe** located in the LSC Installer folder on the software CD.
3. The Light System Composer Setup Wizard window appears. Click **Next** to begin the installation.
4. When the Select Installation Folder window appears, accept the default location, or click **Browse** to select a new folder. Click **Next** to continue.
5. At the Confirm Selection window, click **Next** to start file installation.
6. Once the Installation Complete window appears, click **Close** to exit the setup wizard.

Mac OS Installation

1. Insert the Light System Composer software CD into the CD-ROM or DVD drive on the Mac OS X system. The LSE folder icon appears on your desktop. Double-click the icon to expand the folder.
2. Double-click the **Install LSC** icon.
3. Click **Continue**. When the Software License Agreement screen appears, click **Agree** to indicate you agree to the terms of the software license agreement.
4. Click **Continue**, then select a destination volume and folder for the LSC software.
5. Click **Continue**, then click **Install** to begin the installation.
6. When the installation is finished, click **Close** to exit the installation wizard.

Philips Color Kinetics
3 Burlington Woods Drive
Burlington, Massachusetts 01803 USA
Tel 888.Full.RGB
Tel 617.423.9999
Fax 617.423.9998
www.colorkinetics.com

PUB-000232-02 R00 03-09