CLARITY

Lighting and Media Control
Desktop Installation Guide
Version V 2.0

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About this guide

This document provides a quick start guide for Clarity Desktop software installation and introduces the Clarity VX Wings and QX DMX nodes. For more detailed operation, please refer to the Clarity Operator Manual.

Package Contents

- LSC Clarity CD containing Clarity installation software including USB drivers and Hasp (dongle) software plus Clarity Operation Manual.
- USB Hasp (also known as a USB Dongle).
- Lanyard (for Hasp storage).
- Instructions (this document).

Clarity Software

LSC Clarity is a powerful and full featured computer based lighting control system. The Clarity software contained on the CD is also available as a free download from the LSC website, www.lsclighting.com. Both versions are identical although both LSC Lighting Systems (Aust) Pty. Ltd. and OpenClear Pty. Ltd. have a corporate policy of continuous improvement, covering areas such as product design and documentation. To achieve this goal, we undertake to release software updates for all products on a regular basis. In light of this policy, the website might contain a later version of Clarity than the version on this CD. Please check the web site for the latest version of Clarity software.

The desktop version of Clarity is available for both PC and MAC operating systems. Purchased versions of Clarity desktop include a USB dongle (HASP) that you plug into a USB port of the same computer that is running Clarity or into the secure compartment in the rear of a VX10 or VX20 wing. When you start Clarity, it reads the license from the dongle and automatically enables the channel capability that you have purchased. Multiple dongles can be plugged in at the same time to increase your available DMX channels.
Your Clarity USB Hasp Dongle is a valuable item. Without it, Clarity will operate in "Demo Mode" as described below. Therefore you should care for it as you would any other valuable piece of equipment. LSC recommends that you insure your USB Hasp Dongle against loss, theft or damage as LSC cannot supply a replacement in these circumstances.

Installation Instructions

DO NOT plug in any QX nodes, VX wings or the USB Dongle into the USB ports of your computer until the Clarity software installation is complete. The installation includes the drivers for these USB devices.
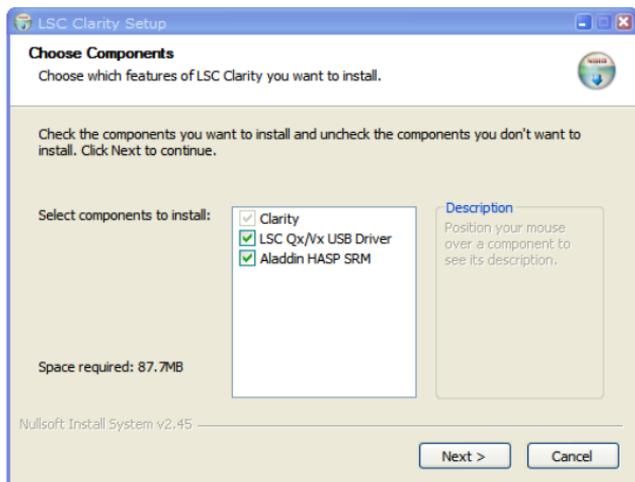
Installing Clarity on a PC

When using a PC type of computer, LSC recommends running Clarity on Windows Vista ©, Windows 7 ©, or Windows 8 © operating systems.

Note: The Clarity software and device drivers must be installed before connecting any QX DMX nodes or VX wings to your computer.

Install the software by double-clicking on the Clarity installation file supplied on the CD or downloaded from the LSC website (www.lsclighting.com).

Note: The name of the Clarity installation file will be different depending on which version of software you are loading but will be of the form Clarity-PC-x.y.z.exe where x.y.z is the version number of the software.

Windows will ask you if you want to allow Clarity to make changes to your computer. Click **Yes** and the "LSC Clarity Setup" dialog box appears.

Components are selected for installation by checking there box. Position your mouse over a component to see its description.

A <u>new installation</u> of Clarity requires all 3 components to be installed.
- Clarity
- LSC QX/VX USB Driver
- Aladdin HASP SRM

The Aladdin HASP SRM software is for the USB Dongle that contains your Clarity license.

An <u>upgrade</u> to a new version of Clarity only requires 2 components to be installed.
- Clarity
- LSC QX/VX USB Driver

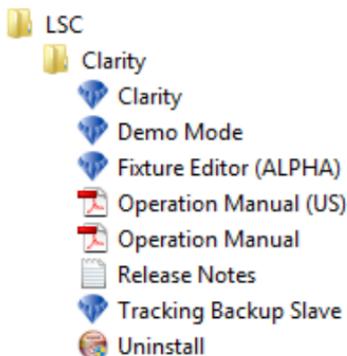Continue the installation by clicking **Next**, then follow the on screen instructions.

The QX/VX drivers are certified 64 bit drivers, however you may be asked to confirm their installation. Installation of the "Aladdin HASP SRM" software can take several minutes. You can check the operation as described in "HASP Diagnostics" below.

When the installation is complete, click **Close**.

If you accept the defaults, Clarity will be installed in C:\Program Files\LSC\Clarity.

You can now plug in a QX DMX node, VX wing or USB license dongle (Hasp). The first time that you do this, windows automatically installs their device drivers. This takes a few moments and windows will inform you that "Your device is ready to use".

To run Clarity, click on Start\All Programs\LSC\Clarity where you will see all of the installed files.

Click on **Clarity** to run the program.

The above steps are for installation on Windows 7. The process for Windows Vista and Windows 8 will be similar.

Installing Clarity on a Mac

Drag the app (Clarity.app) over to the Applications folder. When you run Clarity for the first time it will automatically install the fixture library into the Clarity data location (i.e. {home}/Clarity).

HASP Installation for Mac

Double click **HASP SRM RTE Installer.pkg**

Follow the on screen instructions to install the HASP SRM Runtime.
If you have previously installed the HASP SRM Runtime (possibly from a previous version of Clarity) then you might see an error message telling you that the software cannot be installed.

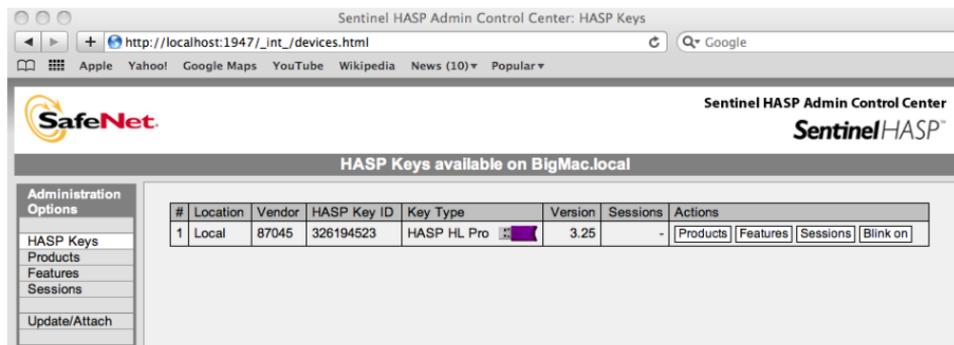**HASP SRM RTE Installer can't be installed on this computer.**

This software can't be installed on this computer.

Close

This only means that the version already on your computer is the same as the version you tried to install so it was not required. Click **Close**.

HASP Diagnostics

You can verify that the HASP SRM Runtime is correctly installed by navigating to http://localhost:1947 to view the "HASP SRM Admin Control Centre". Make sure you USB license dongle is plugged into a USB port then click on **HASP Keys** to verify that your key is recognized. You might have to refresh the page if you are too quick.

Demo Mode

If Clarity is run without a USB dongle it will run in Demo mode. Demo mode has full functionality but the intensity of all fixtures will black out and all non-fadable channels will freeze for a short period on a regular basis. It is therefore not suitable for running a show, however it is ideal for training and demonstrations or to create off line shows that can be run on a purchased version of Clarity or on a LX console.

Running Clarity

Insert the dongle into a USB port of your computer (or VX Wing and plug the VX wing into a USB port of your computer) to enable the DMX channel capability that you have purchased.

On a PC, if you accepted the default location, Clarity will be installed in the "C:\Program Files\LSC\Clarity" folder. This folder contains the Clarity program and the Operator Manual. To run Clarity, click "Start>All Programmes>LSC>Clarity>Clarity". For easy opening, create a shortcut to Clarity on your desktop.

On a MAC, navigate to the Applications folder where you will find a Clarity folder. Inside this folder you will find the Clarity program icon and Operator manual.

Clarity Forum

LSC provide a discussion forum for all things Clarity. Log on to www.lsclighting.com/forums. Once registered, you can ask questions, suggest improvements, report bugs and discuss concepts with both the product engineers and other users.

Clarity Hardware

LSC has Clarity QX nodes and VX wings available for purchase that can be used together with the Clarity software to provide DMX512 outputs.

- LSC Clarity QX1 node provides 1 output of DMX.
- LSC Clarity QX2 node provides up to 2 outputs of DMX.
- LSC Clarity VX10 wing provides up to 2 outputs of DMX.
- LSC Clarity VX20 wing provides up to 4 outputs of DMX.

These devices connect to the USB port of your computer/laptop and have DMX512 outputs to interface to your DMX controlled equipment. The following pages preview these devices, detailing their connection requirements.

QX1 Node.

The QX1 DMX nodes connects to the USB port of your computer. The QX1 is powered directly from the computer's USB connector. Connect your DMX controlled equipment to the in line DMX output connector.

Note that the DMX output has to be patched in Clarity software before it will work.

In-line DMX512A output

USB Connector

QX1 DMX node

QX1 LED Indicator

Steady Red = Fault.
Solid Blue = Ready. Clarity not communicating.
Alternating Red/Blue/Green = Identify.
Solid Green = USB data is OK.
Alternating Blue /Green = Holding last DMX Output.
Alternating Yellow /Green = RDM.

QX2 Node.

The QX2 DMX nodes connect to the USB port of your computer using the cable provided. The QX2 is powered directly from the computer's USB connector. A separate external power supply is only required in the unlikely event that your computer's USB connector cannot supply sufficient power for the QX2. Connect your DMX controlled equipment to the relevant DMX output connectors. The DMX outputs are fully isolated from the USB input.

Note that the DMX output has to be patched in Clarity software before it will work.

USB interface

Optional power input: 12-18V AC/DC

2 Isolated DMX512A outputs

QX2 DMX node

QX2 Indicators

The LED beside the USB connector shows the USB status:
Steady RED = USB connected but not talking to your computer.
Flashing Green = USB connection active, Clarity not communicating.
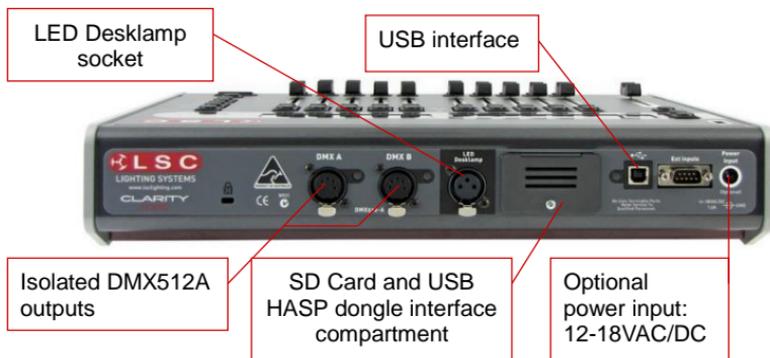Steady Green = USB data is OK.

The LED beside each DMX connector shows the respective DMX output status.
Blue = Channel Identification.
Green = DMX data output OK.
Red = RDM communication.
Red/Green alternating = DMX reception.

VX10 Wing

Connect the VX10 wing to the USB port of your computer using the cable provided. The VX10 is powered directly from the computer's USB connector. A separate external power supply is only required when your computer's USB connector cannot supply sufficient power for the VX10.

Note that the DMX output has to be patched in Clarity software before it will work.

LED Desklamp socket

USB interface

Isolated DMX512A outputs

SD Card and USB HASP dongle interface compartment

Optional power input: 12-18VAC/DC

VX10 Indicators

The LED beside the USB connector shows the USB status:
Flashing RED = No USB connected. (The DBO button also flashes)
Steady RED = USB connected but not talking to your computer.
Flashing Green = USB connection active, Clarity not communicating.
Steady Green = USB data is OK.

The LED beside each DMX connector shows the respective DMX output status.
Blue = Channel Identification.
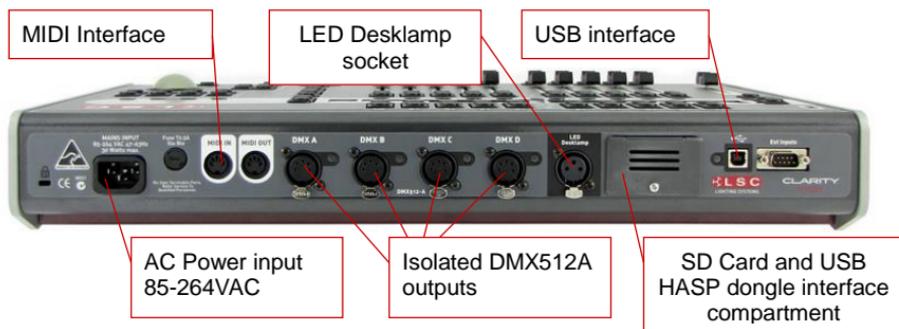Green = DMX data output OK.
Red = RDM communication.
Red/Green alternating = DMX reception.

VX20 Wing

Connect the VX20 wing to a USB port of your computer using the cable provided. The VX20 is fitted with an internal universal power supply, designed to operate from 85-264V AC mains. Connect the supplied power cable to the VX20 wing.

Note that the DMX output has to be patched in Clarity software before it will work.

MIDI Interface

LED Desklamp socket

USB interface

AC Power input 85-264VAC

Isolated DMX512A outputs

SD Card and USB HASP dongle interface compartment

VX20 Indicators

The LED beside the USB connector shows the USB status:
Flashing RED = No USB connected. (The DBO button also flashes)
Steady RED = USB connected but not talking to your computer.
Flashing Green = USB connection active, Clarity not communicating.
Steady Green = USB data is OK.

The LED beside each DMX connector shows the respective DMX output status.
Blue = Channel Identification.
Green = DMX data output OK.
Red = RDM communication.
Red/Green alternating = DMX reception.

FAQ

Q. The VX wing/QX node is not powering up?
A1. Check the USB cable is connected.
A2. If the USB LED is always flashing red, there may be insufficient power from the host computer to power the VX wing/QX node. Connect a suitable power supply to resolve this issue.
A3. In the case of the VX20 wing, connect the wing to mains supply.

Q. The VX wing is powered up but not responding to Clarity?
A1. The VX wings only work if a Clarity dongle is attached, so check that the dongle is connected to the PC and re-start the Clarity Software.

Q. I am getting a driver installation error!
A. This can happen when performing a software upgrade on an existing Clarity installation. Visit the LSC website forum for a software fix using the following address:
http://www.lsclighting.com/forums/index.php?showtopic=1035

Q. The dongle does not appear to be working?
A. This can happen if the option to install the HASP driver was not selected during installation. Reinstall the Clarity software and select all options.
A. Check the HASP diagnostics information using the following URL
http://localhost:1947

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