

## LUMI COMMAND CENTER Installation Guide

Please read the following pages before attempting installation to ensure complete understanding of the LUMISHORE Lumi-Link Command Center



#### PARTS INCLUDED



1 x DMX TERMINATOR



1 x FIELD INSTALL RJ45 IP67 COVER KIT (39-0235)



#### **Lumi-Link Command Center Installation Instructions**

#### Before you start...

- Always ensure that the vessel's power source and battery are disconnected or isolated prior to installation.
- A qualified professional should carry out both the electrical and mechanical installation.
- The Lumi-Link Eos and / or Lux lighting system should be fully installed before connecting the Lumi-Link Command Center.
- The Lumi-Link Command Center must be mounted in a dry location and on a flat (not curved) surface away from any sources of heat or vibration
- The Lumi-Link Command Center works with the Lumi-Link Display and or compatible Multifunction Displays (MFD). - check the compatibility of your MFD prior to installing the Lumi-Link Command Center. The MFD may require a software update.
- The Lumi-link Command center has an accessible SD card slot for future software upgrades. When mounting, future access to this SD card slot should be taken into consideration.

#### **Connection Options...**

The Lumi-Link Command Center is a cross platform device. Via ethernet, it can connect to a single or multiple MFD network, connect to a Lumishore Lumi-link display or be controlled by a smart Phone/tablet (via Wi-Fi).

Compatible MFD's include the following...

| MFD COMPATABILITY | <ul> <li>- Garmin (OneHelm Enabled)</li> <li>- Raymarine - Axiom (Lighthouse Partner App)</li> <li>- Navico - Simrad (NSO EVO3 and EVO2,</li> <li>NSS EVO3 and Go**), B&amp;G (Zeus3 Glass Helm,</li> <li>Zeus3 and Vulcan)</li> <li>- Furuno Navnet TZ Touch 3 Series (Requires</li> <li>Furuno Specific SD Card - Part Number 60-0377)</li> </ul> |
|-------------------|---|
|-------------------|---|

The Lumi-link Display can be used if there are no MFD's on the vessel or if additional access points are required around the vessel. For full details of the Lumi-link Display see Lumi-Link Display installation instructions.

Via an on-board Wi-Fi network (either through the MFD Wi-Fi or through the Lumi-Link Display on-board Wi-Fi) the Lumi-link app can be controlled from a smart device. Full instructions for this are included in the Lumi-Link Command Center user manual.



#### **Single MFD Connection**



#### **Lumi-Link Display Connection**



#### Multiple MFD/Lumi-link Display Device connection



Note: use a MFD manufacture specific Network expansion port – consult with your MFD installation guide or contact a dealer for further advice.



#### Connecting the Lumi-Link Command Center to the Lumi-Link Display or MFD.

For direct connection to the Lumishore Lumi-Link Display any standard ethernet network cable can be used. Connection to the various brands of MFD's are brand specific. The following diagrams show the components required to connect the Lumi-Link Command Center to each brand.

The length of network cable depends on where the Lumi-link command centre has been installed relative to the Display or MFD. Each MFD manufacturer offers different lengths of network cable, check your installation length before ordering.

Lumishore supplies a Field install RJ45 IP67 cover to make your connections to the Lumi-link Command Center waterproof. The cover should be used on all installations. Note: The internal support may or may not be required depending on the type of Ethernet connector molding.

#### Field install IP67 RJ45 Cover Assembly

# PLEASE REFER TO RJ45 IP67 ASSEMBLY INSTRUCTIONS SUPPLIED WITH RJ45 COVER KIT (39-0235)

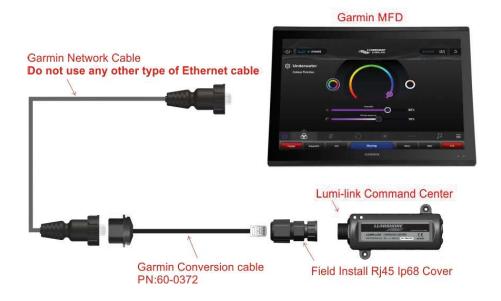
#### **Lumi-Link Display – Use standard Ethernet Cat5e Cable**



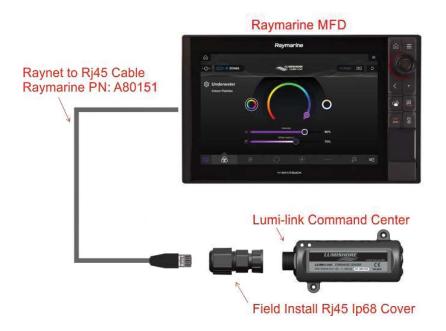


#### Garmin MFD Install - Use Garmin Conversion Cable PN: 60-0372 and Garmin Network Cable.

(Note: the Garmin Conversion cable Must be installed – only use Garmin network cables)



Raymarine MFD Install - Use Raynet to RJ45 Cable, Raymarine PN: A80151

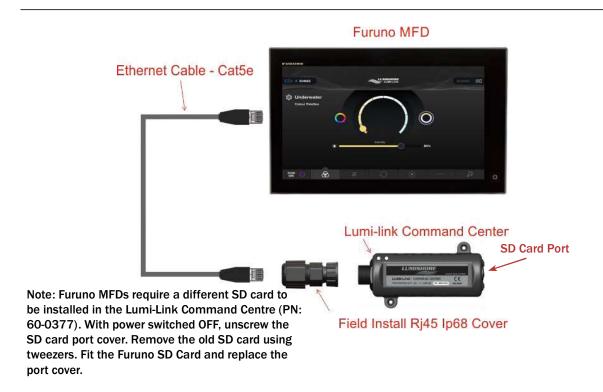




#### Simrad & B&G MFD Install - Use Navico Conversion cable PN: 60-0373



#### Furuno MFD Install – Use Standard Ethernet Cat5e cable



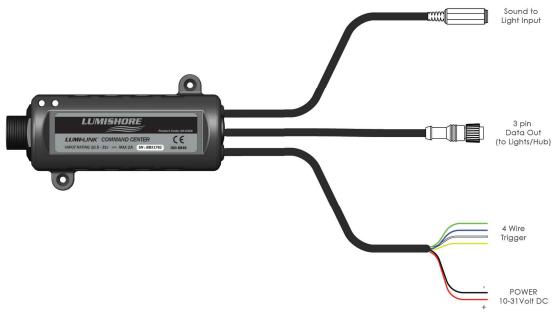


#### **Lumi-Link Command Center Connections**

The Command Center uses a proprietary form of DMX to communicate between the lights and controller. Whilst Lumishore EOS lights can be controlled by any DMX controller (with limited feature set), the Lumi-Link Command Center can only be used to control Lumishore products.

The Lumi-Link Command Center is plugged into the first Driver, Hub or Light Module in the series. The installation is terminated using a DMX Terminator plugged into the last light, driver, hub or module in the series. (see example diagrams on the following pages)

- The Lumi-Link Command Center is for 12/24volt DC operation (10-31volt input). Under no circumstances should the Controller be connected directly to Mains AC voltage.
- Always use a suitable fuse or circuit breaker to protect the Lumi-Link Command Center and each element of the system.



#### 3 Pin M12 Lumi-Link Data out connector:

- 1. Using Lumi-Link DMX cable extensions connect one end to the 3 pin connector on the back of the Lumi-Link Command Center. Connect the other end to the first light, driver, hub or module in the series.
- 2. Use a Lumi-link DMX extension cable to link the next Driver or lighting module. Do not cut or extend the DMX link cable.

Pre-molded Lumi-link DMX cables are available in 1 meter, 5 meter and 15 meter lengths as required. Multiple cables can be combined if a further distance is required.



3. Plug the supplied DMX terminator into the DMX output connector of the last light, driver or module in the chain.

DMX Extension cables (NOTE: Do Not Cut and Splice DMX cables)

| Length | Part Number |  |
|--------|-------------|--|
| 1m     | 60-0403     |  |
| 5m     | 60-0404     |  |
| 15m    | 60-0405     |  |

#### **Sound to Light Connection:**

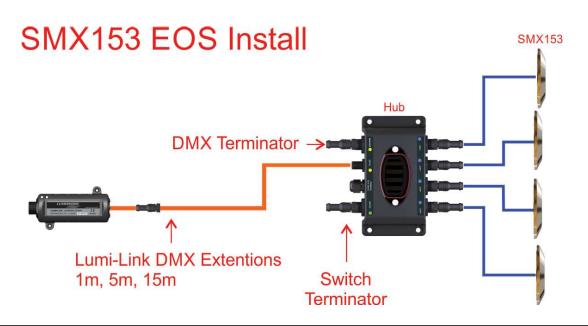
A 3.5mm Jack Socket is included. Use a "Jack to Jack" cable or "Jack to Phono" cable as required to plug the "Line out" from a stereo or iPad/iPhone.

For best results use a stereo output that has constant output irrespective of volume, i.e. when using an iPad or iPhone use the line out rather than the headphone socket. That way the sensitivity of the controller will not need continuous adjustment when changing volume.

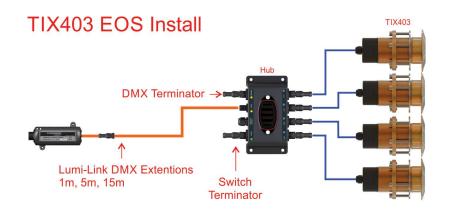
#### **3rd Party Trigger Input (Optional):**

Contact Lumishore to discuss optional 3rd party triggers for Scenes and Zones.

#### EOS Underwater Light installation Example diagrams: -

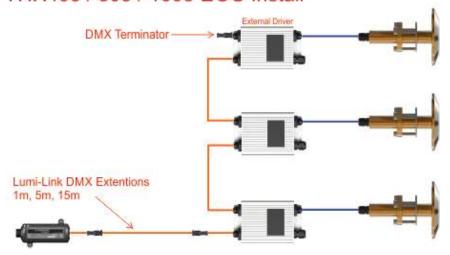






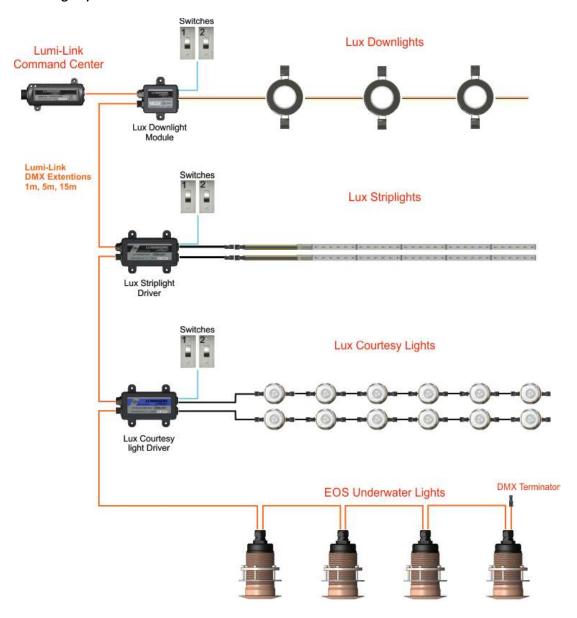


#### THX403 / 803 / 1603 EOS Install





### System Diagram for Lumi-Link System including both EOS (underwater lights) and LUX (above water Lights)...



#### Independent Switches (1,2)

Each LUX module can be controlled from independent momentary switches mounted in the room or dash board. When pressed, the switch removes control from the Lumi-link command centre and offers independent On/off control, dimming or pre-set colour selection. To let the Lumi-link command centre regain control the associate zone should be powered off and on again at the MFD, smart device or Lumi-Link display.

Mom Switch 1: ON/Off, Press and hold to Dim.

**Mom Switch 2 (optional):** Can be wired to control pre-set colours; Cold White, Mid White, Warm White, Red, Blue, Green, Cyan, Magenta or alternatively wired to control Cold White, Mid White and Warm White only.



#### **Lumi-Link Command Center - Status Leds**



| LED Status |    | Power LED |   | Data LED                      |
|------------|----|-----------|---|-------------------------------|
| Solid ON   | 80 | Healthy   | B | Healthy - Data Being Received |
| OFF        |    | No Power  | В | No Power                      |
| Flashing   | 99 | N/A       | 9 | Healthy - Ready For Data      |

If power to the Lumi-Link Command Center is lost temporarily then the system may not fully function until you exit to the Home screen on the MFD, and then re-select the Lumi-Link Screen.

If there are multiple MFDs in use, and one of the MFDs is used to access a set-up mode (e.g. Light Set-Up), then the other MFDs will be locked out and will display a message. If this message is seen then exit to the home screen. Once the set-up is completed the system can be used as normal.

#### Warranty

LUMISHORE Ltd warrants the **Lumi-Link Command Center** to be free from defects in workmanship and materials for a period of two years, starting from the date of original purchase. Misuse, abuse, improper installation, neglect, improper shipping, damage caused by disasters such as fire, flood, and lightning, installation by unqualified personnel, unauthorized repair or modification will void this warranty. For the avoidance of confusion and doubt, non-compliance with all installation, maintenance and operating instructions in this document constitute non-conformance with warranty terms.