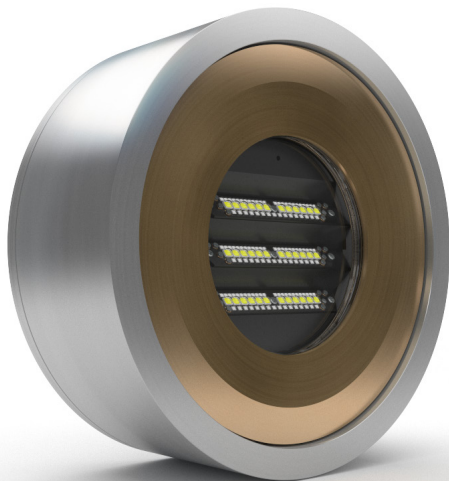


# SY300 SUPRA DC Driver Installation Manual

*Please read the following pages before attempting installation to ensure complete understanding of the LUMISHORE SY300 SUPRA.*



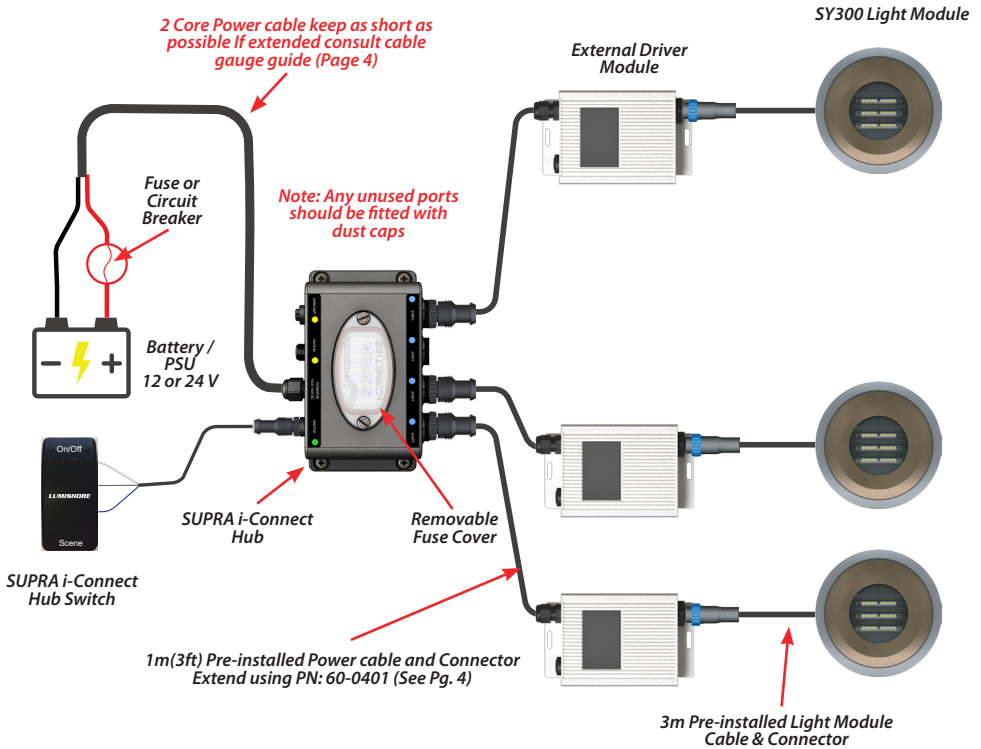
***SY300 Light must be installed according to instructions 45-0082***

## **Before you start...**

- High Intensity LED light – Do not stare into the LED module at close proximity.
- Always ensure that the vessel's power source is disconnected or isolated prior to installation.
- A qualified professional should carry out both the electrical and mechanical installation. If in doubt please contact LUMISHORE. refer to product support section.
- The Driver supplies voltage and current to the Underwater lights. Under no circumstances should the light cable be cut and connected directly to voltage.
- Always use a suitable fuse or circuit breaker to protect the complete system. Each light to be individually fused.
- Never try to install or remove light with the vessel in the water - Contact Lumishore for advice.
- Lights should not be exposed to any temperatures in excess of 150°F (65°C). For example, next to hot engine components or where exhaust emissions could be expelled onto the light while underwater.

The SY300 SUPRA lighting system will typically consist of several Lumishore SY300 lights a SUPRA i-Connect Hub and a SUPRA i-Connect switch. These can be powered from a DC power source (e.g. battery), or an AC/DC power supply via a suitable fuse or circuit breaker.

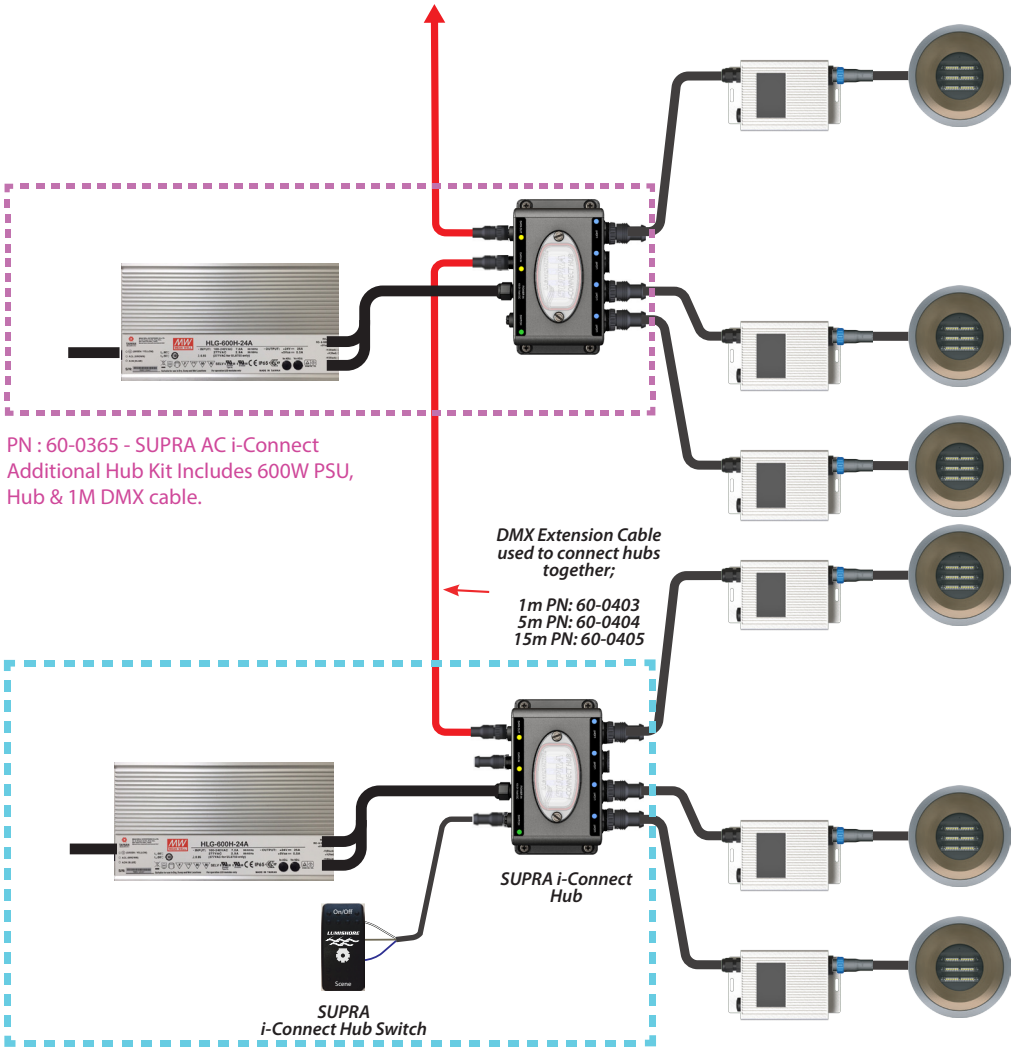
### MAX 3 LIGHTS PER HUB



- Plan the cable routing and work out the Power cable lengths. Check the cable AWG required in the tables on Pg. 5.
- Mount The SUPRA i-Connect Hub and External Driver Modules in a dry, well ventilated location.
- Each light is supplied with 3m (10ft) length cable with pre installed connector. Do Not Cut or Extend. Extension cables available - Contact Lumishore.
- Each External Driver module has 1m (3ft) power cable - Power Extension cables are available, see Pg. 5. for further details.
- Install the correct fuse for the model of light and vessel voltage - see fuse table Pg. 5.
- Ensure the fuse cover is reinstalled correctly.
- All Power connections need to be made waterproof using a suitable junction box or waterproof connectors.
- Ensure any unused ports on the i-Connect hub have the waterproof caps installed.
- All pre installed connectors are keyed - do not force and ensure they are aligned correctly.

**ENSURE CORRECT ELECTRICAL POLARITY. INCORRECT INSTALLATION WILL INVALIDATE WARRANTY**

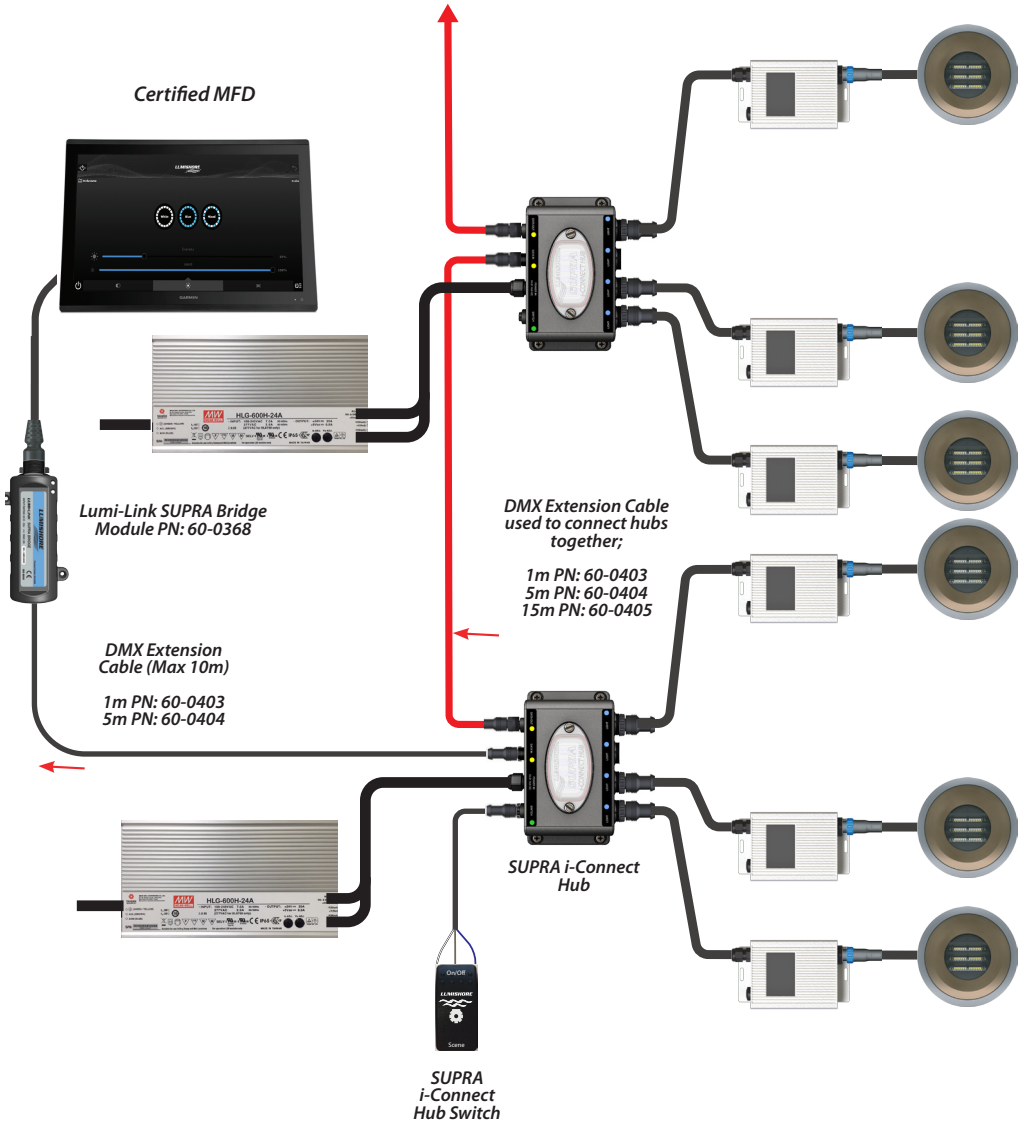
**Installed with switch control**



PN : 60-0364 - SUPRA AC i-Connect Installation Kit  
Includes 600W PSU, Hub & Switch.

**Note: SY300 Lights MAX 3 per hub when using the 600W PSU.**

Installed with switch and MFD control



**Note: SY300 Lights MAX 3 per hub when using the 600W PSU.**

**Hub Power Cable Extension**

It is important to use the correct cable gauge when extending the Power cables.

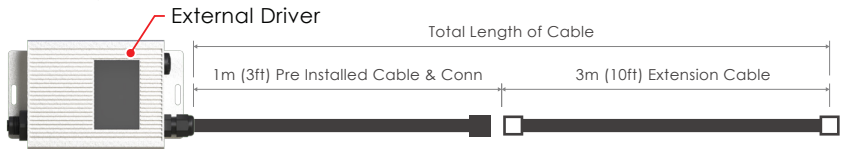
**Note: To avoid Excessive Voltage drop keep the Power cable as short as possible**

Total Length (to Hub & back)	Vessel Voltage	
	12V	24V
0-10ft	8AWG	12AWG
10-20ft	6AWG	8AWG
20-30ft	4AWG	6AWG
30-40ft	2AWG	4AWG
40-50ft	2AWG	4AWG
50-60ft	1AWG	2AWG

**Driver Power Cable Pre Made Extension**

The driver power cable can be extended using the Lumishore pre-terminated extension cables PN: 60-0401, For the maximum extension length follow the table below.

Extension example:



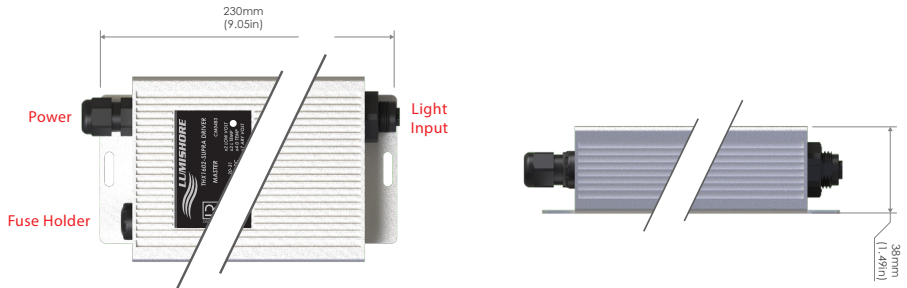
**Cable Length**

Model	Max Length of Cable
SY300 Driver	4m

**Fuse Table (Fitted to Hub)**

Model	Fuse Rating
SY300	10A

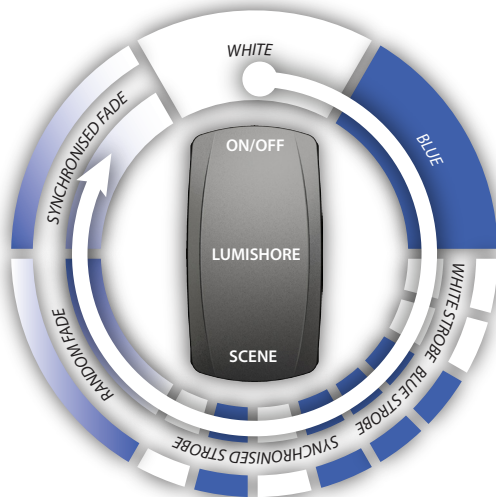
**SY300 Driver Module - Overall Dimensions**



**i-Connect Switch Operation**

The i-Connect switch has two operations - "On/Off" and "Scene". Pressing "Scene" advances the light to the next function:

- White
- Blue
- White strobe
- Blue strobe
- White / Blue strobe
- Random fade
- Synchronised strobe



**Note: Switching the system off for 5 seconds and on again will restart the sequence in white mode.**

**MFD Light Control using Lumi-Link Bridge**

Using the optional SUPRA Lumi-Link bridge module, all light controls can be displayed onto certified MFD units. For full instructions consult SUPRA Lumi-Link bridge module instruction leaflet.

**Certified MFD**



### Testing the Lights

The underwater lighting system should always be tested before the boat goes back in the water. Check that each light comes on, and all lights change in sequence as per the system operation section above. See the problem solving guide for advice on resolving any issues.

Once the boat is back in the water, check for any water ingress on the installed lights. Any ingress should be dealt with immediately. The lights should be checked several times over the first 24-hours and periodically after that to ensure installation is satisfactory.

### Maintenance and Cleaning

LUMISHORE lights require simple cleaning. Lights should be checked often to ensure the light body and lens area are free from sea growth. In the event that your light requires cleaning, we recommend the use of a soft cloth or soft bristled brush. The glass should be kept clean with a plastic scraper or soft brush. Regular cleaning of the lens will ensure that the light module delivers maximum optical output. DO NOT use an abrasive cloth or cleaning agent as permanent damage to the lens may occur.

DO NOT use any abrasive cleaning materials as these may damage the body of the light.  
DO NOT use any cleaning fluids that contain solvents, acids or alkalis.  
DO NOT clean using pressure washing or sandblasting equipment.

Slight discolouration of body may occur over life. This does not affect performance, and is not subject to warranty.

Due to nature and high build quality it may on rare occasions be possible to see small levels of condensation, this is normal for high power LEDs and will disappear after cooling and does not harm operation in any way.

No chemicals, cleaners, chemical sprays or sandblasting should ever be applied / used on lights — this will negate warranty

To prolong device lifetime and prevent marine growth build up, a good quality anti-fouling system must be used to coat the external body of the device. This should be renewed regularly.

### Product Support

If you have questions or comments, please e-mail [info@lumishore.com](mailto:info@lumishore.com) or call USA (941) 405-3302, United Kingdom +44(0)208 144 1694, or France +33(0)493 582 537.

**Warranty**

LUMISHORE Ltd warrants the SY300 SUPRA lighting system to be free from defects in workmanship for a period of three years, starting from the date of original purchase. Should your lighting system have a problem during this period, please contact your dealer as soon as you become aware of the defect.

Misuse, abuse, improper installation, neglect, improper shipping, damage caused by disasters (e.g. 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.

Full warranty details are available at [www.lumishore.com](http://www.lumishore.com).

**Troubleshooting**

In the event of one or more of the lights not lighting up then check the LED status on the driver (at the back of the light). The LED will either be continually ON (healthy), OFF (no power to driver) or flashing. Please refer to the table below for what the number of flashes means and what action to take.

LED Status	Meaning	Action to take / Things to check
No LED light on driver	No power to driver	Check fuse / breaker Check connections Check voltage at input to driver connections
Solid LED	Power On	Driver is receiving voltage and operating properly Check the switch is operating correctly
Flashing 2 times	Low input voltage to driver	Check power connections or battery voltage
Flashing 3 times	Light temp too high	Could happen when light is out of water or next to exhaust
Flashing 4 times	Driver temp too high	Driver is mounted too close to an engine or exhaust
Flashing 7 times	LED array voltage out of range	Check the connections between light and driver Check light in each colour to determine if all colours are working
Flashing 8 times	Light not detected	Light is not connected or cable is cut or pinched Light has been connected incorrectly to the driver
Continuous rapid flashing	Driver program corrupt	Reset driver by switching off power for 1 minute, and then switching on again Contact LUMISHORE if problem persists

In the event of an issue, record the serial number(s) of the light(s) and contact your local dealer.

If a light does not switch on or function properly, it should be disconnected from the power source.

