



2019
INSTALL & OPERATION MANUAL

WiFi DMX TOUCH PANEL CONTROLLERS



LIGHT. YEARS AHEAD.

OceanLED INSTALL MANUAL / CONTROLLERS / WiFi DMX Touch Panel / 260319 / v9.1

Preface

READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL



WARNINGS

Before installing your DMX Controller, read and follow all warning notices and instructions which are included. Failure to follow safety warnings and instructions can result in property damage, severe injury or even death.

Before installing your DMX Controller, check local laws for restrictions regarding the use of coloured lights in your area.

Salt is an inherently corrosive material. Natural and man-made surfaces are susceptible to corrosion and deterioration when used in and around salt water. Some combinations of plastic and polymer products are impervious to salt water corrosion, however, screws and fasteners used for the installation must be of a marine grade type stainless steel or equivalent and monitored annually to ensure the controller remains in service for years to come.

Never Use Solvents! Cleaners, fuel, and other products that may contain strong solvents, such as acetone, that attack many plastics greatly reducing their strength and can cause irreversible damage.



DANGER

RISK OF ELECTRIC SHOCK OR ELECTRICUTION

This unit must be installed by a licensed or certified electrician in accordance with all applicable local codes and ordinances. Improper installation will create an electrical hazard which could result in death or serious injury to installers, or others due to electrical shock, and may also cause damage to property. Always disconnect the power to the light at the circuit breaker before servicing the light. Failure to do so could result in death or serious injury to serviceman, or others due to electrical shock.

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PRETEST

Always test the system prior to installation. Failure to do this may result in additional installation time and could invalidate the warranty.

IMPORTANT NOTICE

Attention Installer: This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner and/ or operator of this equipment.

1 Overview



Units are not waterproof. You must mount in a dry location. When installing, be sure that the controller fits the area and secures to the mounting location using the appropriate hardware before installing.

1.1 TOOLS AND MATERIALS



Never use power tools. Hand tighten only!

- Drill & Drill Bits.
- Screw Driver, Phillips #2
- Wire Strippers.
- Tape measure and Ruler or Straight Edge.
- Marking Utensil (Pencil, Sharpie Magic Marker, etc)

1.2 FINDING THE MOUNTING LOCATION

- Ensure that the ambient temperature where the unit is mounted cannot exceed 45 degrees C - Note that engine rooms can easily exceed this.
- The chosen location requires access to mains power, space for the routing of the DMX cable to the driver boxes, and also an Ethernet connection to a WiFi router / LAN WiFi for the WiFi controller if the WiFi function is required.



For DC power installations please contact OceanLED for advice

1.3 SPECIFICATIONS

- Ready to use (pre-loaded with scenes).
- 14 buttons, 1 fader, 28 leds (touch-sensitive keypad).
- Micro SD Card
- Up to 200 dynamic or static scenes
- 6-9V DC / 100-240V AC (With Adapter)
- Environment IP20, Temp -10°C to 50°C
- Certifications: EC, EMC, ROHS, ETL, UL (some in progress)

2 Installation

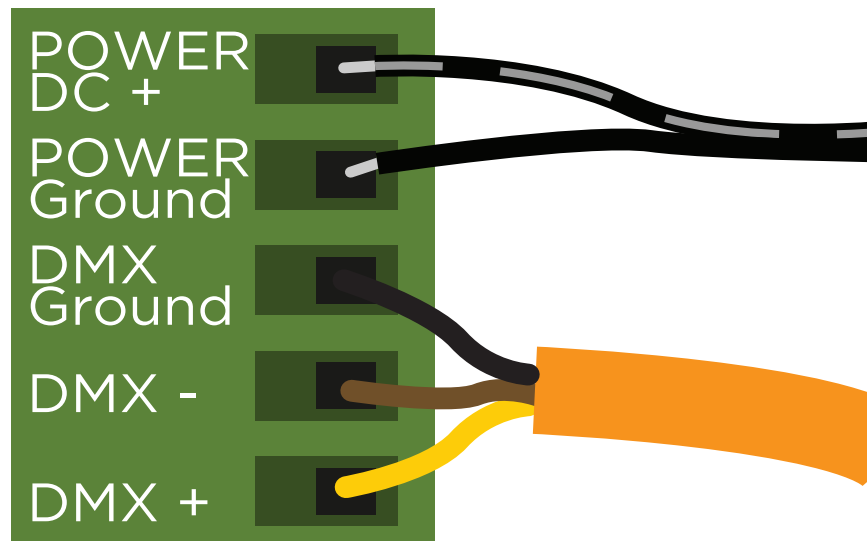
2.1 CONNECT THE WIRES (EXPLORE SERIES)

1. Connect the control cable to the green connector (as below)

- DMX Ground = Black
- DMX - = Brown
- DMX + = Yellow
- Red wire (Unused, do not connect)

2. Connect power via the AC/DC adapter provided.

- Power DC + = Black/White Stripe
- Power DC - = Black



2.2 CONNECT THE WIRES (PRO SERIES)

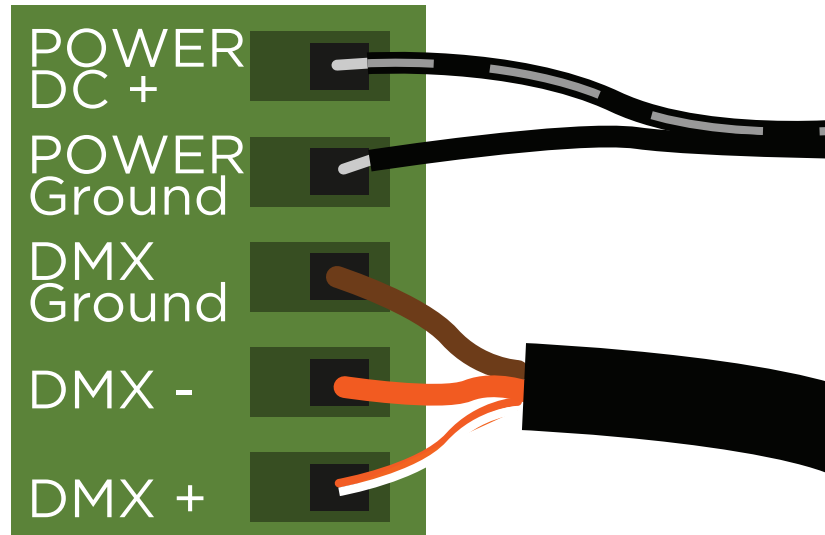
1. Connect the DMX cable to the green connector (as below)

- DMX Ground = Brown+Brown/White
- DMX - = Orange
- DMX + = Orange/White

2. Connect power via the AC/DC adapter provided.

- Power DC + = Black/White Stripe
- Power DC - = Black

Installation



2.3 MOUNT IN A DRY LOCATION



1. Plug the green connector block into the rear of the DMX WiFi Touch Panel Controller.
2. For WiFi plug the local ethernet cable into the rear of the DMX WiFi touch panel controller
3. Mount the back plate of the interface on the preferred dry mounting location.
4. Close the unit by clipping the front panel onto the back plate.

Installation

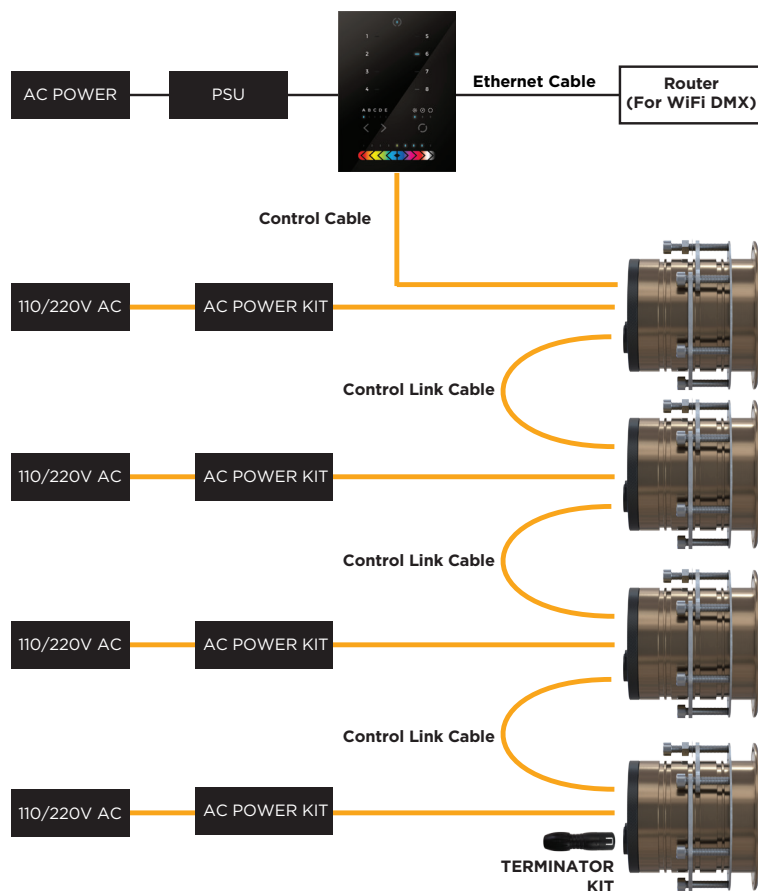
2.4 FINALISE YOUR INSTALLATION (EXPLORE E6)



Always test the system BEFORE the boat goes back into the water. Typical OceanLED light installs require the boat to be hauled out of the water to replace light units.

The DMX standard recommends a maximum of 32 devices to be connected in one chain. If installation requires more lights than this, please contact OceanLED for advice.

1. If WiFi is required connect Ethernet cable from back of controller panel into a suitable WiFi router or WiFi enabled network. (The controller is DHCP enabled as standard so should be detected by the network once powered).
2. Connect the control cable to the control input of the first Explore E6 light. Then connect a control link cable to the next, and so on up to the last light in the chain.
3. Fit the supplied terminator to the output of the last E6 light. See the following example of the connections:



Installation

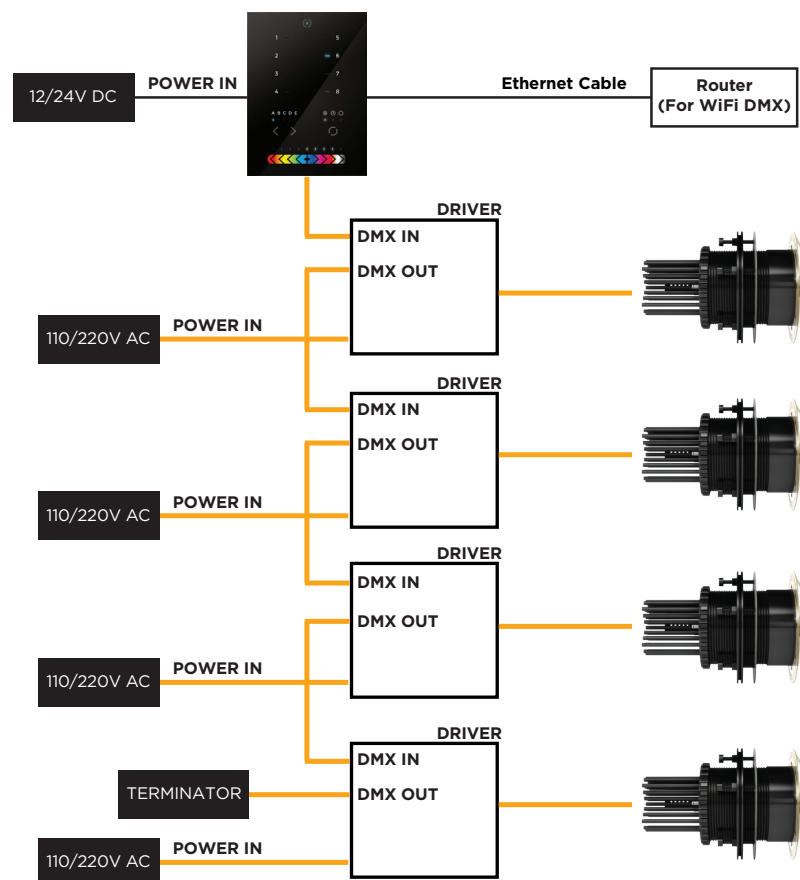
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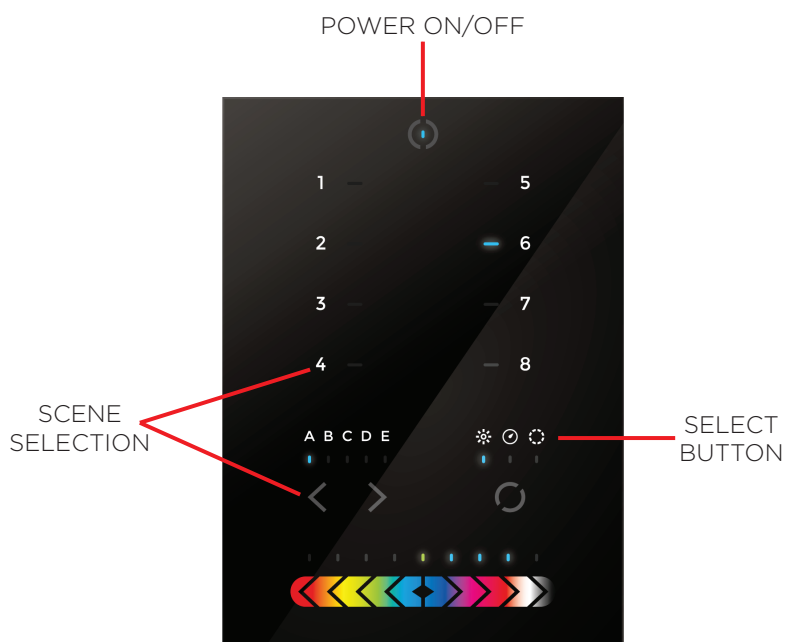
1. If WiFi is required connect Ethernet cable from back of controller panel into a suitable WiFi router or WiFi enabled network. (The controller is DHCP enabled as standard so should be detected by the network once powered).
2. Connect the DMX controller DMX output cable to the DMX input of the first driver box. The DMX output of this box should be connected to the input of the next, and so on up to the last driver in the chain.
3. Fit the supplied terminator to the output of the last driver box. See the following example of the DMX connections:



3 Operation

3.1 POWER / SCENE SELECTION

1. Power on the unit by touching the top centre button.
2. Select the required scene by first touching the left / right arrows under the "ABCD" display to select the 'Area page' if required, then touch the required scene button. The blue led displays the selected scene.
3. Brightness / Speed / and colour of the selected scene can be changed via the select button in the bottom right



3.2 PRE PROGRAMMED SCENES - EXPLORE E6

Explore E6 Dual White / Blue			
Area	Function	Function	Style
A	1	White	Solid Colours
	2	Blue	
	3	Blue-White	
B	1	Pulse between Blue & White	Pulse Modes
	2	Blue Pulse	
	3	White Pulse	
	4	Blue / White Pulse	
C	1	Blue Strobe	Strobe Modes
	2	White Strobe	
	3	Blue/White Strobe	

Operation

Explore E6 / Pro Series Colours			
Area	Function	Function	Style
A	1	Red	Rainbow Colours
	2	Orange	
	3	Yellow	
	4	Green	
	5	Blue	
	6	Indigo	
	7	Violet	
	8	White	
B	1	Blue Shade 1	Blue / White Shades
	2	Blue Shade 2	
	3	Blue Shade 3	
	4	Blue Shade 4	
	5	White Shade 1	
	6	White Shade 2	
	7	White Shade 3	
	8	White Shade 4	
C	1	Green Shade 1	Green / Red Shades
	2	Green Shade 2	
	3	Green Shade 3	
	4	Green Shade 4	
	5	Red Shade 1	
	6	Red Shade 2	
	7	Red Shade 3	
	8	Red Shade 4	
D	1	Red, Green, Blue Cycle	Cycle / Strobe Modes
	2	Red, Green, Blue Cycle with 40% white	
	3	Red, Green, Blue Pulse / Cycle	
	4	Red, Green, Blue, White Pulse / Cycle	
	5	White / Blue Strobe	
	6	Red, Green, Blue, White - Blue rapid Strobe	
	7	Blue / White Strobe	
	8	Green, Blue, and White Strobe	
E	1	Red, Green, Blue Strobe	Cycle / Strobe Modes
	2	Red, Green, Blue, White increment	
	3	Blue / White rapid switch	
	4	Yellow / Cyan / Blue Switch	
	5	White Pulse	
	6	Red / Blue Pulse, White Fade Rapid	
	7	Green / White Strobe	
	8	Green Pulse	

4 Troubleshooting

WiFi DMX Touch Panel Controller			
Problem	Check	Cause	Fix
DMX controller does not power on	Check Power to Controller is on	No Power	Connect Power
		Power OK	Check Connections
	Check Connections to controller faceplate	Connected incorrectly	Correct Connections
		Connected OK	Contact Warranty Department
Lights do not respond to controller and / or random flickering of lights / colours	Check DMX connection is daisy-chained between controller and all drivers	Not connected correctly	Correct cabling connections
	Check all other cables are connected correctly and are not damaged	Not connected correctly	Correct connections
		Damaged cable	Replace Cable
	Check Terminator is fitted to last driver box	Terminator not fitted	Fit terminator
Terminator fitted		Contact Warranty Department	
WiFi not working (only applicable to wi-fi model)	Check Ethernet cable is connected into back of controller panel correctly.	Not connected	Reconnect cable
	Check the controller panel is recognised on the connected network.	Controller not visible	Try re-booting network hub and controller panel.
	Check connected network WiFi is functioning correctly	WiFi not functioning	Resolve issue with network WiFi
		WiFi network OK	Contact Warranty Department