

GENERAL FEATURES

Applications	RDM Low Voltage LED Lighting
Best Use	Remote Driver
Construction	Plastic Housing
Finish	Black
Weight	3.37 lbs
Size	24" (L), 2.25" (W), 2.51" (H)
Mounting	Mounting Feet

TECHNICAL SPECIFICATIONS

Class	2
Rating	Indoor
Listing	UL1310, UL8750
Operating Temperature	-20°C to +50°C
TCase	70°C
DMX	E1.11 – 2008, USITT DMX512-A, ANSI E1.20
DALI	EN 62386-101/102/207
RoHS	RoHS3 (Directives 2011/65/EU-2015/863/EU)
MAX THD	< 10% At Full Load
Power Factor	> 0.94 At Full Load
Efficiency	83% At Full Load
Protections	Surge Circuit

DIMMING

Dimming Protocol	DMX-512 or DALI
Dimming Range	100% - 0.1%

READ ENTIRE GUIDE BEFORE STARTING INSTALLATION

Important Notice: Verify correct luminaire was received with correct color temperature, voltage, and wattage before cutting or installing. ALUZ will not be responsible if incorrect luminaire is installed.

INPUT

Input Voltage	Universal Voltage: 120-277VAC
Input Frequency	50 / 60 Hz
Max Input Current	1.05A @ 120V / 60 Hz

OUTPUT

Output Voltage	24VDC
Output Power	100 Watts
Output Current	2.8 Amps

WARNING

- Turn off electricity before wiring.
- Only qualified personnel should install the unit.
- Installation must comply with the NEC.
- Ensure the unit has suitable input voltage, output voltage, and output wattage for your application.

INSTALLATION TOOLS REQUIRED

- Electric Hammer Drill
- 14.4 to 28 Volt Cordless Drill
- Phillips Bits
- Utility Knife
- Electrical Cord
- Marker
- Wire Stripper
- Long Nose Pliers
- Drill Bits - Concrete or Wood
- Electrical Three Ways
- Safety Glasses
- Measuring Tape
- Laser Line or Chalk Line

MINIMUM LOAD

DRIVER Wattage	30	40	60	96	100	150	200	300
Min Load Watts 20%	6	8	12	20	20	30	40	60



MOUNTING

- Drivers must be mounted with at least 10" of free flow air space for adequate ventilation.
- Never mount the driver on or above heat radiant objects.
- The maximum ambient temperature should not exceed +50°C (122°F).

Mounting Instructions

- Remove plastic covers from driver. There is one mounting hole on the bottom surface of the enclosure at either end.
- Mount enclosure to surface using appropriate screws (by others) for surface material and weight of driver. Ensure screws do not interfere with wiring or function of driver. Always use two screws to mount driver to surface.

MOUNTING INSIDE AN ENCLOSURE

- Only mount drivers inside enclosures rated for your application.
- Always ground drivers to enclosure.
- Do not mount drivers without an enclosure.
- Use enclosure knockouts and water-tight conduit fittings if applicable.

WIRING CONNECTIONS

- Always refer to wiring diagrams before making wiring connections. If there is a discrepancy in the information, contact technical support.
- Use cabling rated for DMX or DALI systems when applicable.
- Only use UL approved wire nuts to make wiring connections.

DRIVER CARE

- Do not submerge drivers in any liquid.
- Do not leave any exposed wires.
- Do not cover driver without proper ventilation.
- Do not install damaged driver.
- Do not exceed maximum load.

TROUBLESHOOTING TIPS

- Do not reset the breaker multiple times.
- If the unit is overloaded, the breaker will trip, shutting off the driver and lighting.
- If the breaker reset button has been held down by hand or any type of pressure such as tape, or if the breaker has been reset multiple times without troubleshooting, the unit will:
 - Burn the input or output wires due to high amperage from overload.
 - Damage the lighting.

Check Load

To calculate driver size, follow the steps below.

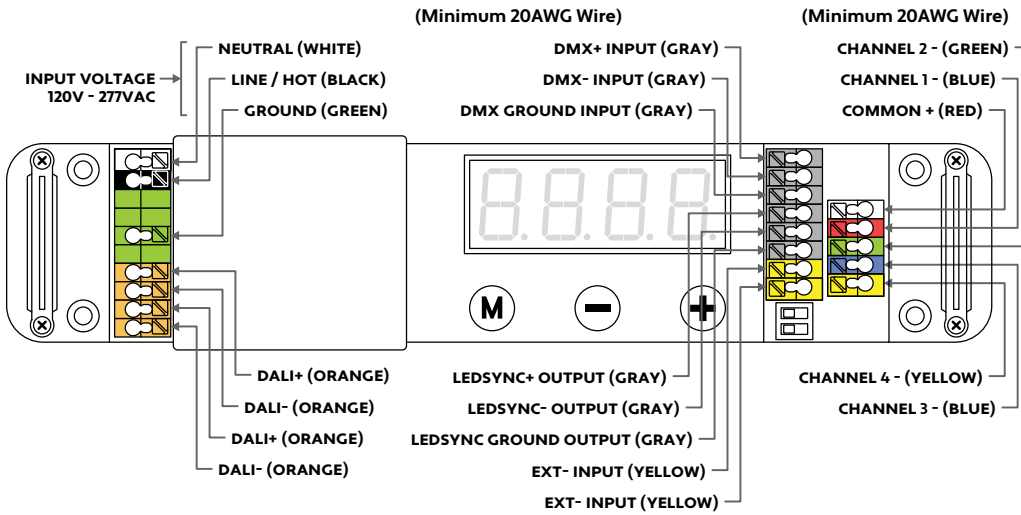
- Determine Watts per Foot of LED Lighting.
Example: 4 Watts per Foot (4W)
- Determine Length in Feet of LED Lighting. If product is field cut, it must be measured to determine length.
Example: 5'
- Calculate load by multiplying Watts per Foot by Length in Feet.
Example: 4W x 5' = 20 Watts
- If load exceeds 30 Watts, divide the power to another driver or order a larger wattage driver.
- **Note:** For best dimming performance, it is recommended to load drivers to a maximum of 80% (80W).
See Maximum Run table for details.

MAXIMUM RUN BASED ON 80% LOAD OF ELECTRONIC DRIVER MAXIMUM WATTAGE

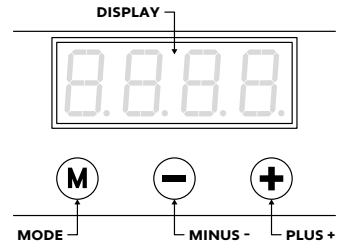
Driver Wattage	80% Load	1.5W Max Run	2W Max Run	2.5W Max Run	3W Max Run	3.6W Max Run	4W Max Run	4.5W Max Run	5W Max Run	5.5W Max Run	6W Max Run	6.5W Max Run
100	80W	53'	40'	32'	26'	22'	20'	17'	16'	14'	13'	12'

Note: Maximum Run refers to the total length of lighting that can be connected to a single driver. Maximum Runs for individual products still apply.

DIAGRAM OF DRIVER



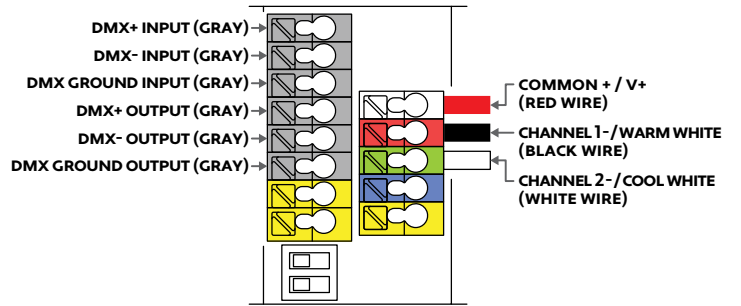
DIGITAL INTERFACE



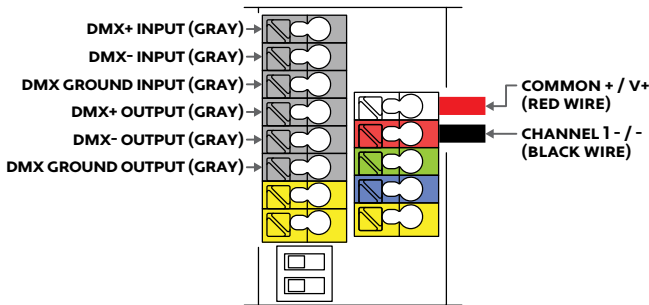
NOTES (DMX)

- Wire colors on diagram correspond to colors of driver terminals.
- Default DMX address of each luminaire is 001. Consult a third party DMX commissioner to modify at time of installation. ALUZ does not provide DMX commissioning.
- DMX Address must be set for each driver. Default DMX address is 001.
- A DMX Control System (by others) must be used to operate the lighting.
- The last driver in a daisy chain sequence must be terminated.
- Driver load not to exceed 100W.
- For best dimming performance, it is recommended to load drivers to a minimum of 50% (50W) and a maximum of 80% (80W).
- Up to 28 drivers may be daisy chained together using shielded cable specified for DMX wiring.
- Ensure DIP Switch 1 is set to ON (Left) to activate 24V operation.

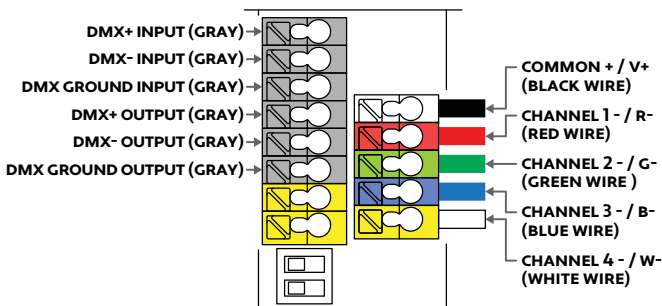
DMX Wiring: Dynamic White (DWH)



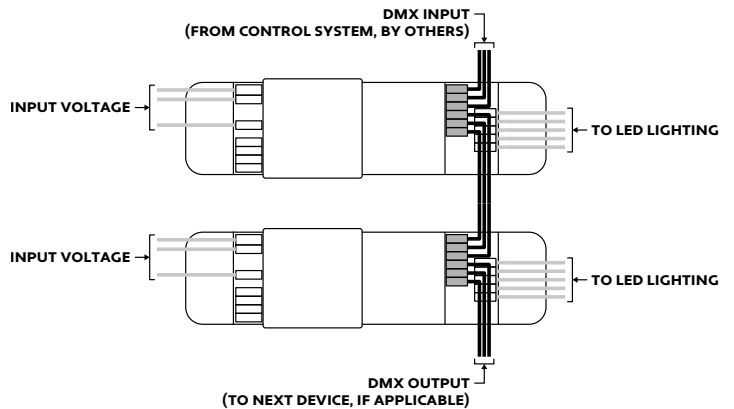
DMX Wiring: Static White



DMX Wiring: RGBW



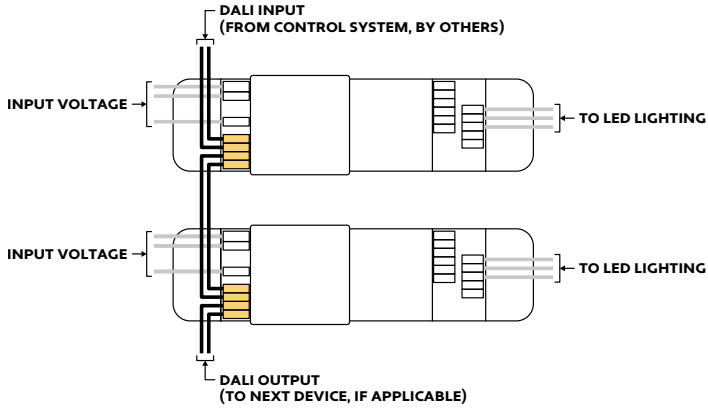
DMX Daisy Chain



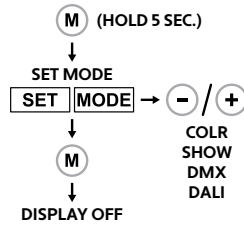
NOTES (DALI)

- Wire colors on diagram correspond to colors of driver terminals.
- DALI commissioning to be performed by a third party at time of installation. ALUZ does not provide DALI commissioning.
- DALI Address must be set for each driver.
- A DALI Control System (by others) must be used to operate the lighting.
- Driver load not to exceed 100W.
- For best dimming performance, it is recommended to load drivers to a minimum of 50% (50W) and a maximum of 80% (80W).
- Up to 28 drivers may be daisy chained together using shielded cable specified for DALI wiring.
- Ensure DIP Switch 1 is set to ON (Left) to activate 24V operation.

DALI Daisy Chain

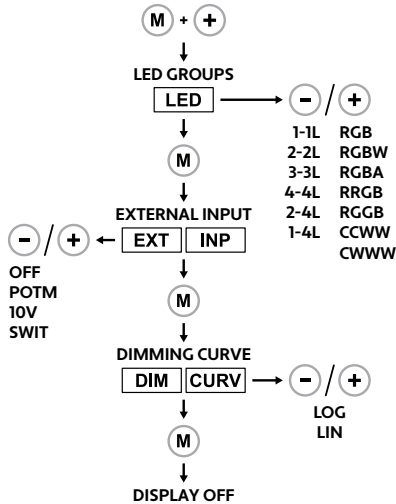


MODE OF OPERATION



- Set Mode to DMX or DALI

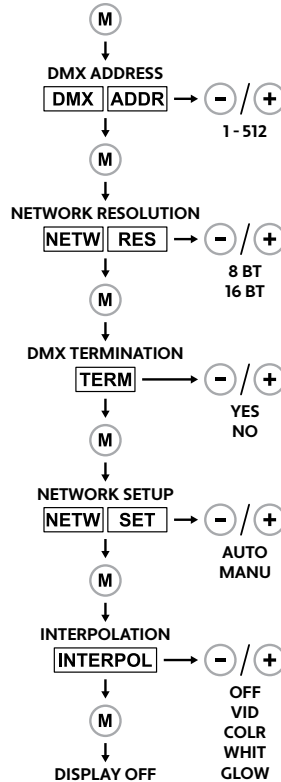
SET LED GROUPS



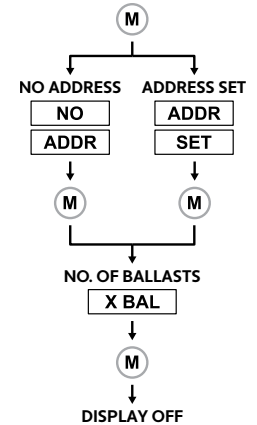
- Set LED Groups to RGBW for RGBW lighting.
- Set LED Groups to CCWW for Dynamic White lighting.
- Set LED Groups to 2-2L for Static White lighting.
- Set External Input to OFF.
- Set Dimming Curve to Linear.

STANDALONE OPERATION (Network Operation)

Set DMX Address



Set DALI Address



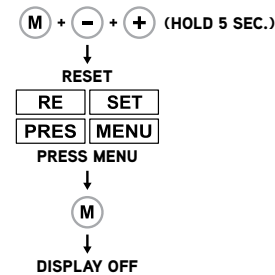
- Consult with a third-party DMX or DALI professional to determine which settings are best for your application. ALUZ does not provide DMX or DALI commissioning.

OTHER FUNCTIONS

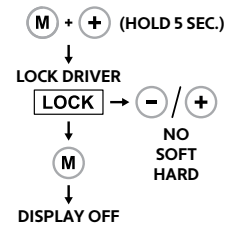
Visual Test



Reset Settings



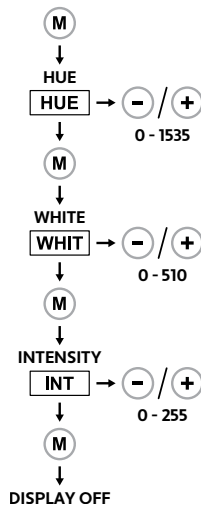
Lock Driver



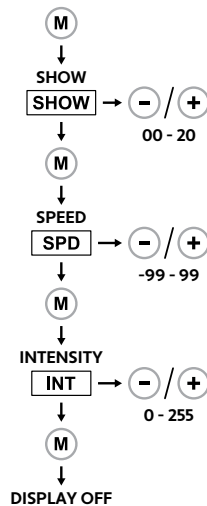
- Always perform the visual test function after wiring to ensure all channels are behaving appropriately.
- Reset driver to factory settings if necessary. It is recommended to reset each driver before adjusting settings for the first time.
- Lock driver if applicable (not recommended).

STANDALONE OPERATION (Color / Show)

Color



Show



- Standalone Operation should only be used when a control system is not present to control the lighting (not recommended).