vode® Adaptive architectural lighting systems
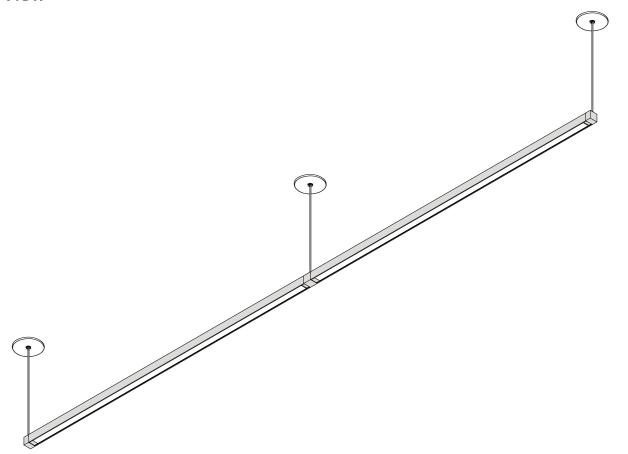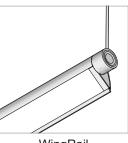
Ceiling Cable | 107 | BoxRail®, RaceRail®, WingRail® | Remote Power | Large Canopy

Please read instructions in their entirety before proceeding with any part of the installation. This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved. Consult a qualified electrician to ensure correct branch circuit rating. To prevent electric shock, disconnect all power before installing or servicing product. Rated for use in dry and damp locations only. Retain instructions for future reference.
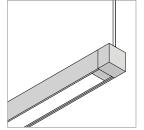
Technical Support: 707.996.9898 or technicalsupport@vode.com
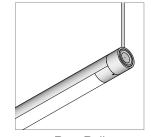
Installed View

WingRail

BoxRail

RaceRail

NOTE: Single Rail systems do not have any Continuous Mounting components.

NOTE: WingRail rail orientation is very important. Be sure wire harness connection (power) is on the right side of the rail and it is oriented as shown.

NOTE: See Corner Center to Center dimensions, if provided.

J-Box
provided by others

Conduit
provided by others

Step 1: Install J-Box
J-Box
provided by others

Step 1: Install Wire Harness
WRH-MWP-XX-MF-18/2-RLF-YY
2-conductor Wire Harness (25' (7.6 m) supplied, optional 25' extensions available upon request)

Step 2: Install Mounting Plate
CAN-107-CC-UMP-XX
Universal Mounting Plate

Step 1: Install Power Supply
RBP-XX-...UNV
Brick Power Supply (shown)
-or-
RLP-XX..UNV
Linear Power Supply

Step 3: Preparing Ceiling Cable Hardware
Strain Relief

Step 4: Install Canopy
22 Guage Power Cord

Step 4: Install Canopy
Suspension Disk

Step 4: Install Canopy
Large Round Canopy

Step 4: Install Canopy
107-BX-CP-XX-CC-4R-2C-YY
BoxRail Coupler w/Large Canopy
-or-
107-RR/WG-CP-XX-CC-4R-2C-YY
RaceRail / WingRail Coupler w/Large Canopy (shown)
Couplers provided ONLY with continuous systems

Step 5: Install Rail
107-WG-XX..YY
107 | WingRail (shown)
-or-
107-RR-XX..YY
107 | RaceRail
-or-
107-BX-XX..YY
107 | BoxRail

Step 4: Install Canopy
107-BX-HB-XX-CC-4R-2C-YY
BoxRail Hub w/Large Canopy
-or-
107-RR/WG-HB-XX-CC-4R-2C-YY
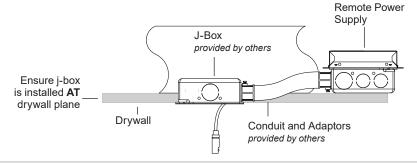*RaceRail / WingRail Hub w/Large Canopy (shown)*

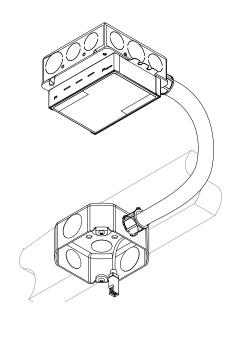## Step 1: Install J-Box, Power Supply and Wire Harness

IMPORTANT! Accurate placement and alignment of junction boxes is critical as it will determine the alignment of the entire system. If system will be supplied with a brick driver, separate j-boxes will be needed for mounting the power supply and the rail system.

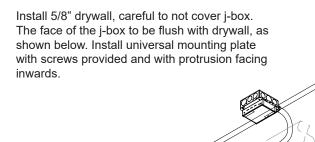Refer to appendix for installation of remote power housing.

Mount j-box for canopy mounting in desired location using the center to center dimensions on page 6. If necessary, install conduit per local building code. Make conduit connections between remote power supply housing and j-box. All mounting locations will require a j-box for installation but only one side of each rail requires power. Connect supplied plenum rated wire harness to pre-installed wire harness on remote power supply and run to j-box. Leave approximately 1" of wire harness hanging out of j-box.
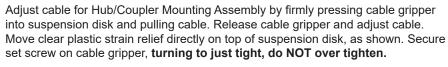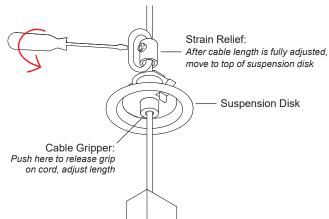
DO NOT POWER ON SYSTEM

Remote Power
Supply

J-Box
provided by others

Ensure j-box
is installed **AT**
drywall plane

Drywall

Conduit and Adaptors
provided by others

Step 2: Install Universal Mounting Plate

Install 5/8" drywall, careful to not cover j-box. The face of the j-box to be flush with drywall, as shown below. Install universal mounting plate with screws provided and with protrusion facing inwards.

Step 3: Preparing Ceiling Cable Hardware

Adjust cable for Hub/Coupler Mounting Assembly by firmly pressing cable gripper into suspension disk and pulling cable. Release cable gripper and adjust cable. Move clear plastic strain relief directly on top of suspension disk, as shown. Secure set screw on cable gripper, **turning to just tight, do NOT over tighten.**

Strain Relief:
After cable length is fully adjusted, move to top of suspension disk

Suspension Disk

Cable Gripper:
Push here to release grip on cord, adjust length
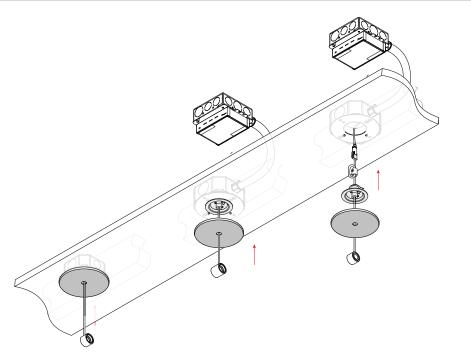
Step 4: Install Canopy
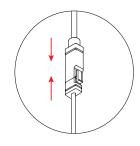
NOTE: If corner is supplied, install as below.

Connect wire harness to hub/coupler assembly, as shown. Push remaining cable inside j-box.

Press suspension disk into universal mounting plate and fine tune cable length using cable gripper. When complete, secure suspension cable by gently tightening hex screw.

Do not over tighten!

Slide canopy up suspension cable to suspension disk. Magnets in suspension disk will secure canopy in place.
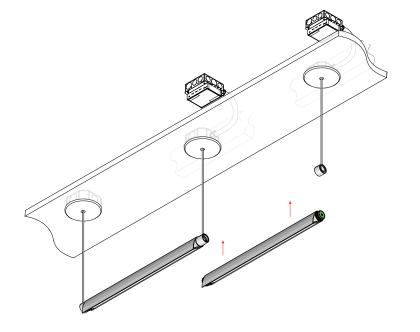

Step 5: Install Rail

Snap the rail into the hub/coupler, paying special attention to which end is powered. The rail will have two ends, one end cap will have a green circle, this end is inserted into the powered side of the hub/coupler. The other end cap will have a red circle, this end is inserted into the non-powered side of the hub/coupler. Once rail is installed firmly into the hub/coupler and is facing in the desired direction, tighten installed set screws on top of hub / coupler using the provided hex key.

POWER SYSTEM ON

NOTE: Coupler is supplied with a powered and non-powered side.

Powered Side:

Power fed through pins of hubs and couplers to green PCB boards in rails
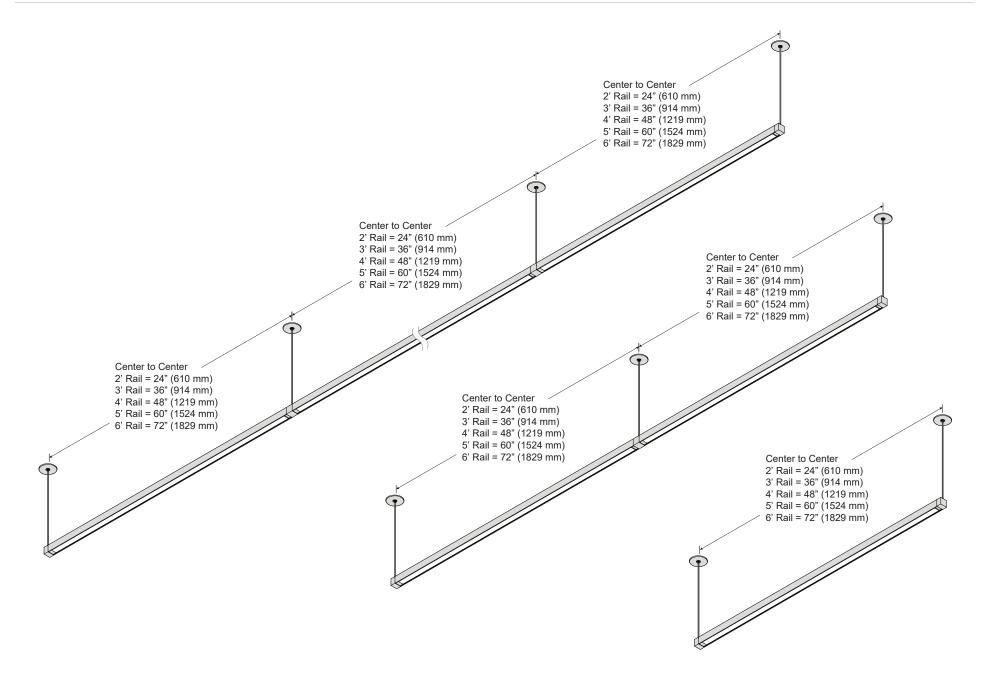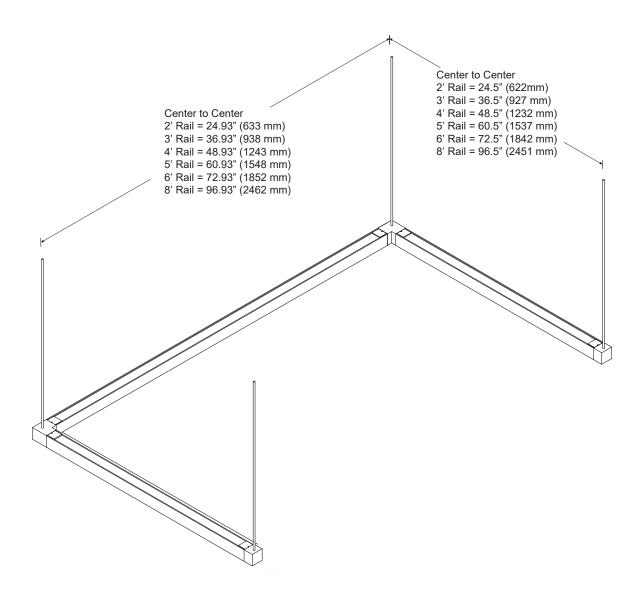
Right End Cap:

Green Cap = Powered Side

Left End Cap:

Red Cap = Non-Powered Side

Center to Center
2' Rail = 24" (610 mm)
3' Rail = 36" (914 mm)
4' Rail = 48" (1219 mm)
5' Rail = 60" (1524 mm)
6' Rail = 72" (1829 mm)

Center to Center
2' Rail = 24" (610 mm)
3' Rail = 36" (914 mm)
4' Rail = 48" (1219 mm)
5' Rail = 60" (1524 mm)
6' Rail = 72" (1829 mm)

Center to Center
2' Rail = 24" (610 mm)
3' Rail = 36" (914 mm)
4' Rail = 48" (1219 mm)
5' Rail = 60" (1524 mm)
6' Rail = 72" (1829 mm)

Center to Center
2' Rail = 24" (610 mm)
3' Rail = 36" (914 mm)
4' Rail = 48" (1219 mm)
5' Rail = 60" (1524 mm)
6' Rail = 72" (1829 mm)

Center to Center
2' Rail = 24" (610 mm)
3' Rail = 36" (914 mm)
4' Rail = 48" (1219 mm)
5' Rail = 60" (1524 mm)
6' Rail = 72" (1829 mm)

Center to Center
2' Rail = 24" (610 mm)
3' Rail = 36" (914 mm)
4' Rail = 48" (1219 mm)
5' Rail = 60" (1524 mm)
6' Rail = 72" (1829 mm)

Center to Center
2' Rail = 24.5" (622mm)
3' Rail = 36.5" (927 mm)
4' Rail = 48.5" (1232 mm)
5' Rail = 60.5" (1537 mm)
6' Rail = 72.5" (1842 mm)
8' Rail = 96.5" (2451 mm)

Center to Center
2' Rail = 24.93" (633 mm)
3' Rail = 36.93" (938 mm)
4' Rail = 48.93" (1243 mm)
5' Rail = 60.93" (1548 mm)
6' Rail = 72.93" (1852 mm)
8' Rail = 96.93" (2462 mm)

Install Remote Brick Power Supply

IMPORTANT! Before installing any power supply, turn off electricity at circuit box.

NOTE: Vode Brick style driver mounting plate is designed to mount only to 4" Square metal j-boxes with a minimum volume of 21 cu. in. Mounting plate contains important installation labeling, please consult to ensure correct driver is installed with correct corresponding rail.

Install j-box (*provided by others*) to desired surface using screws (*provided by others*). Run line, ground and neutral wiring and any applicable dimming controls into j-box through knockout and secure in place, using conduit as necessary per local coding. Use wire nuts (*provided by others*) to make a secure connection between all wiring. (*The provided wire leads are 18 AWG solid core*).
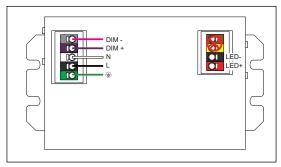
DO NOT power on system until instructed.

For remote power supply maximum distance or wiring questions, please consult **Vode Remote Power Guide.**

NOTE: If power housing is supplied pre-wired with cord and plug and wire harness installed, skip above steps and power system when instructed by plugging system into a standard outlet.
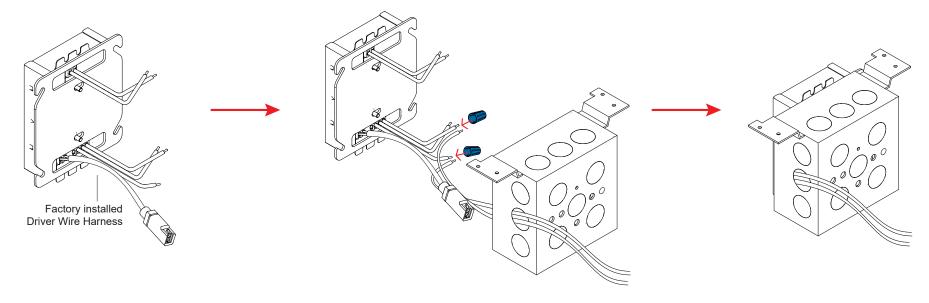
Max Remote Driver Distance

Driver	Remote Distance
eldoLED	100' (30.5 m)
Lutron	**See Vode Power Guide**

For other wiring questions and driver specific information, see **Vode Remote Power Guide**.

Example Only
See Vode Remote Power Guide for wiring detail.

Factory installed
Driver Wire Harness

Install Remote Linear Power Supply

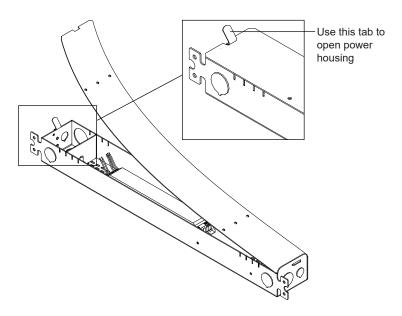**IMPORTANT!** Before installing any power supply, turn off electricity at circuit box.

Vode recommends keeping track of which lids comes with which housing, as the lid contains important installation labeling.

Using the indicated tab, remove power housing lid to access mounting points. Install power supply housing to desired surface using screws (*provided by others*). Run line, ground and neutral wiring and any applicable dimming controls into power housing through any provided knockout and secure in place, using conduit as necessary per local coding. Use wire nuts (*provided by others*) to make a secure connection between all wiring. (*The provided wire leads are 18 AWG solid core*).

DO NOT power on system until instructed.

For remote power supply maximum distance or other wiring questions, please consult Vode Power Guide.

NOTE: If power housing is supplied pre-wired with cord and plug and wire harness installed, skip above steps and power system when instructed by plugging system into a standard outlet.
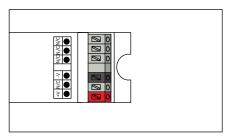

Use this tab to open power housing

Remote Driver Distance

All Vode linear remote drivers come in a 0.054" (1.4 mm) formed galvanized steel power supply housing with five (5) knockouts: (4) 1-1/8", (1) 7/8" and (1) 9/16". Power supply housing dimensions: 2 ⅜" (56 mm) x 1 ⅝" (33 mm) x 20 ¹¹⁄₁₆" (525 mm)

Driver	Remote Distance
eldoLED	100' (30.5 m)
OSRAM	16' (4.8 m)
Magnitude	100' (30.5 m)
Lutron	**See Power Guide**

For other wiring questions and driver specific information, see **Vode Remote Power Guide**.

Example Only
See Vode Remote Power Guide for wiring detail.

Trouble Shooting Guide

My fixture will not turn on:

Check all wiring is correct and all connections are fastened properly.

If all wiring is correct, remove fixture and connect it to a known working driver.
If the fixture lights up, then the problem is with the installed driver or wiring:
1) Check line voltage to driver is present.
2) Check driver wiring (*see **Vode Power Guide** for details*) and check wiring to
   fixture.
3) Check driver and dimming system are compatible (*see **Vode Power
   Guide** and the dimmer manufacturer's website*).

If fixture still doesn't light up, check that all dimming wires are installed
correctly. Reversed polarity on any driver will cause the entire system to not
work, (*see **Vode Power Guide** for wiring details*).

The fixture is not dimming properly:

Check all wiring is correct and all connections are fastened properly.

Check driver wiring (*see **Vode Power Guide** for details*). Make sure driver is
compatible with dimming controls (*see **Vode Power Guide** and the dimmer
manufacturer's website*).

**For any help with installation or technical information,
contact Vode Tech Service at 707-996-9898.**

Important Notes

- Listed to UL standards for damp location by a Nationally Recognized Testing
  Laboratory (NRTL) recognized by OSHA
- Power Type: Class 2 (<60v) constant current driver.
- Dimming curve is factory preset to linear. Logarithmic is available upon
- request. See Vode Driver Guide for specific details and wiring diagram.
- Unless specified, one driver per rail will be supplied.
- 5 Year Limited Warranty. All material and component parts manufactured by
  Vode are guaranteed to be free from defects of material and/or
  workmanship for a period of 5 years from date of sale. Product must be
  installed according to Vode installation instructions and accepted trade
  practices. Power supplies and other auxiliary equipment are not covered
  under Vode warranty but may be covered by separate OEM warranty.