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TW2-S1-1RE-_-2K4K-_-

Installation Instructions for Twiggy Square Lens 24VDC, Tunable White

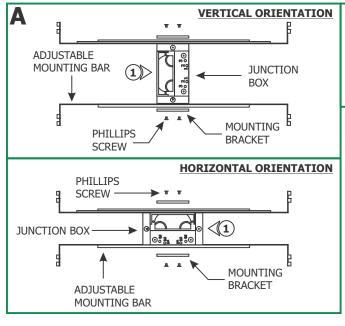
2000K-4000K

IMPORTANT INFORMATION

- This instruction shows a typical installation.
- This product is wall mount only.
- This product is dimmable with a low-voltage electronic dimmer.
- This product must be installed by a qualified electrician.
- The 1RE version mounts to the provided CV2_1RE_JBOX. The 4SQ version mounts to standard electrical box with plaster ring or octagon box.
- This product requires remote 24VDC ELV power supplies (sold separately) or a 24VDC RGB power supply (sold separately). (See pages 4-7 for installation steps.)

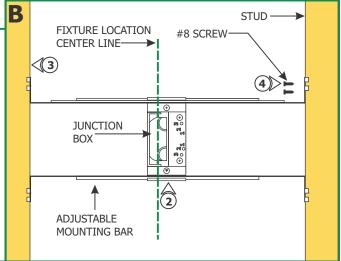
SAVE THESE INSTRUCTIONS!

Section One: TW2-1RE Version



NOTE: Before beginning any electrical work, ensure that the power to the electrical box is off.

1: Determine channel orientation. Mount each adjustable mounting bar to one side of the junction box and secure them with the provided mounting brackets and two Phillips screws.

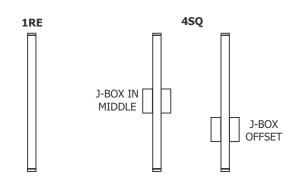


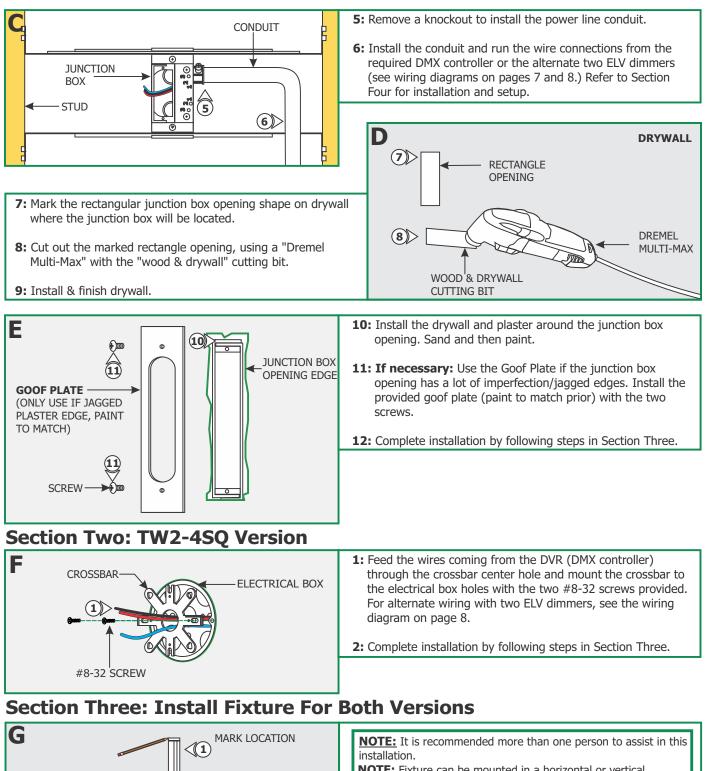
NOTE: The adjustable mounting bars mount to studs that are spaced 13" to 24" apart.

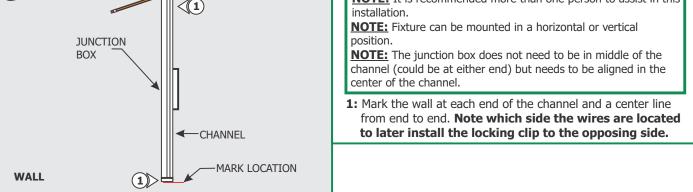
NOTE: Ensure the opening of the junction box is aligned with the center of the desired fixture location. If necessary, adjust the junction box location by loosening the screws and sliding the junction box to the proper location. Tighten the Phillips screws after adjusting.

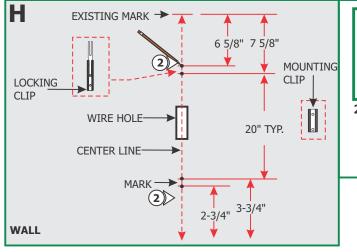
- **2:** Select the location between the two studs for the junction box to be mounted.
- 3: Place the adjustable mounting bars between the studs.
- **4:** Make sure the lips on the adjustable mounting bars are against the studs. Secure the adjustable bars to the studs with the eight #8 screws.







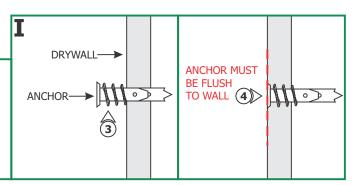




NOTE: TW2-S1-1RE shown for demonstration purposes. **NOTE:** Locking clip must be installed in the opposite direction of the fixture wire. Fixtures greater than 36" are provided with two locking clips.

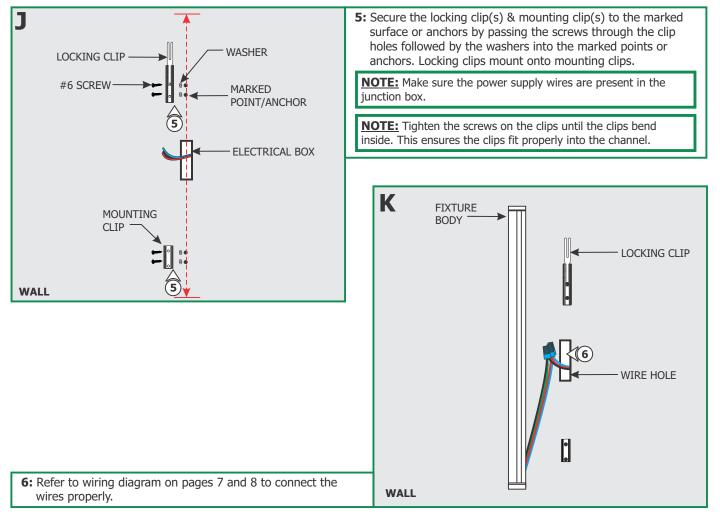
NOTE: The junction box could be offset, but needs to be aligned to the center of the channel.

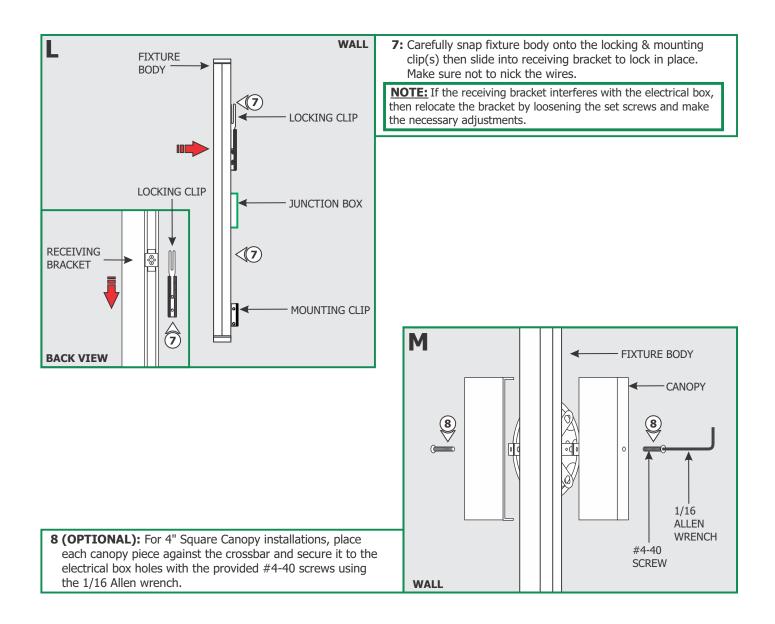
2: From the two existing marks, make additional marks by following drawing H (a typical suggested location with measurements for the locking clip - longer runs contain two locking clips) to install the locking & mounting clips properly. Mounting clips must be installed every 20" from each other.



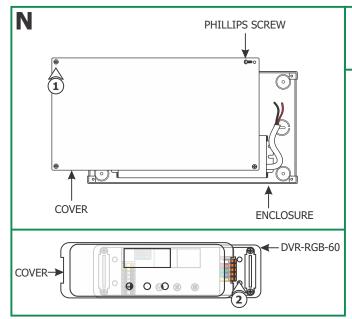
NOTE: Steps 3 and 4 are for drywall mounting. Omit these steps if mounting the clips to a wood surface directly.

- **3:** Tap the anchors onto the marked points up to the threaded portion with a hammer.
- **4:** Screw in the threaded portion of the anchors with a Phillips screwdriver.



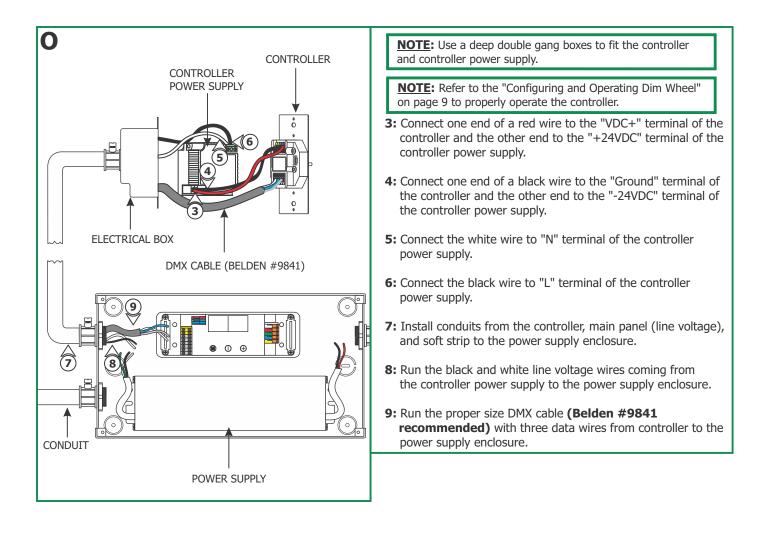


Section Four: Optional Steps For RGB DMX Power Supply



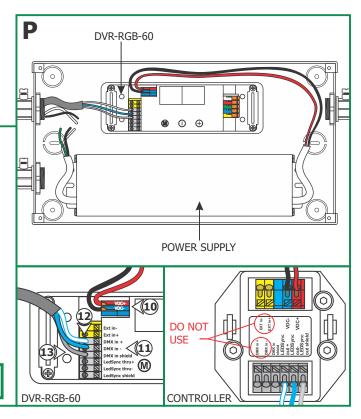
1: Loosen the four Phillips screws on front of the power supply to remove the cover.

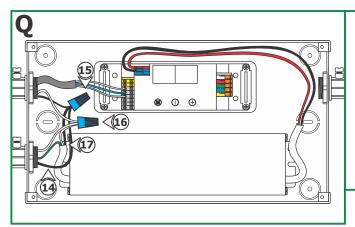
2: Carefully pull off the cover from the DVR-RGB-60 driver.



- **10:** Connect the red wire from the power supply to the "VDC+" DVR-RGB-60 red terminal. Connect the black wire from the power supply to the "VDC-" DVR-RGB-60 blue terminal.
- **11:** Connect one end of a data wire (blue with white stripes wire) to the "LEDSYNC OUT–" controller terminal. Connect the other end into the "DMX in –" DVR-RGB-60 terminal.
- 12: Connect one end of a data wire (white with blue stripes wire) to the "LEDSYNC OUT+" controller terminal. Connect the other end into the "DMX in +" DVR-RGB-60 terminal.
- **13:** Connect one end of a data wire (bare shield wire) to the "LEDSYNC SHIELD" controller terminal. Connect the other end into the "DMX in shield" DVR-RGB-60 terminal.

NOTE: "DMX in+", "DMX in-", "EXT in+" & "EXT in-", controller terminals are not used on controller.

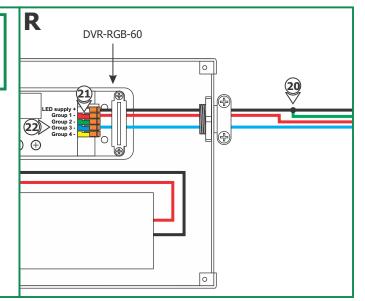


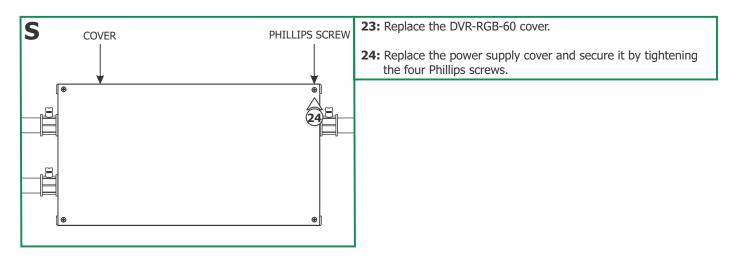


- **14:** Run the line voltage power wires to the power supply enclosure.
- **15:** Connect the hot power wire to the black power supply wire and black controller power supply wire with a wire nut.
- **16:** Connect the neutral power wire to the white power supply wire and white controller power supply wire with a wire nut.
- **17:** Make sure the green power supply wire is grounded in accordance with local electrical codes.

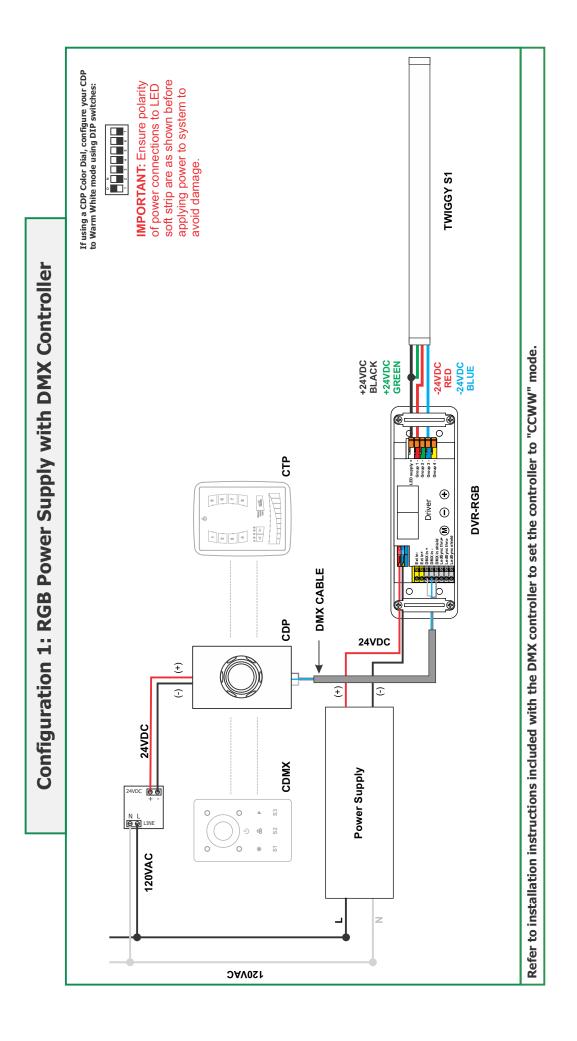
NOTE: The DVR-RGB-60 terminals adapt maximum 18 AWG size. To avoid voltage drop, use 6" of 18 AWG size in RGB terminals connected inline to proper size gauge wire attached to the RGB LED wires with wire nuts. See the "Low Voltage Wire Size Chart" below.

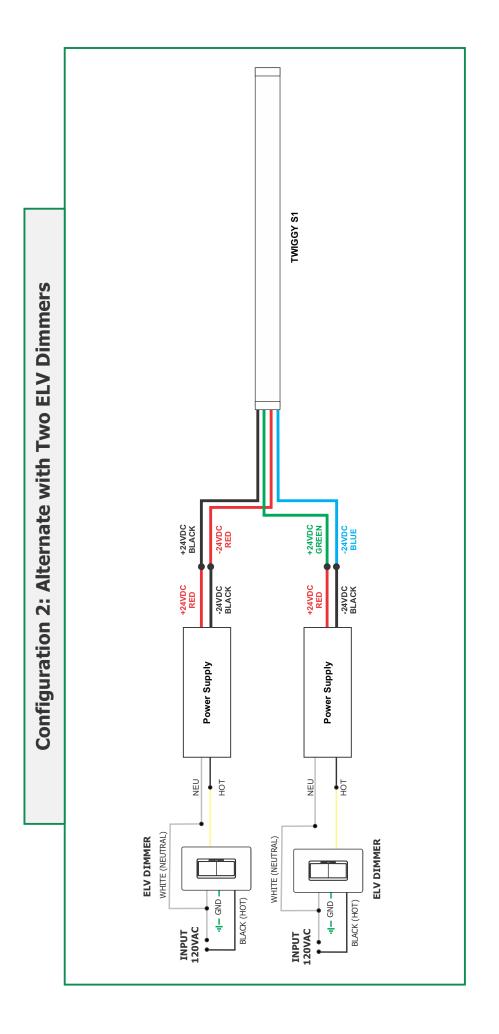
- **18:** Use the "Low Voltage Wire Size Chart" below to determine proper wire size connecting to the DVR-RGB-60 terminals.
- **19:** Run the proper size red, blue, green and black wires from the Twiggy fixture to the power supply case.
- **20:** Connect the black and green fixture wires to the DVR-RGB-60 "LED SUPPLY+" white terminal.
- **21:** Connect the red fixture wire to the DVR-RBG-60 red terminal.
- **22:** Connect the blue fixture wire to the DVR-RBG-60 blue terminal.



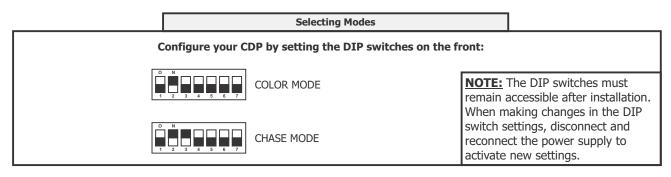


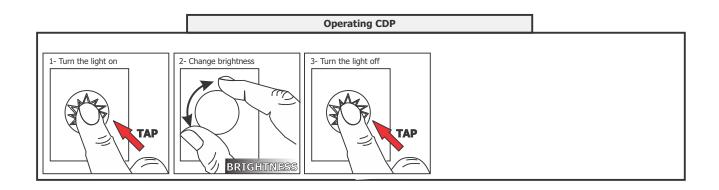
	100W, 24VAC LOW VOLTAGE WIRE SIZE CHART				
3% VOLTAGE DROP	WIRE LENGTH IN FT	UP TO 31FT	32FT-49FT	50FT-81FT	82FT-124FT
	WIRE SIZE	14 AWG	12 AWG	10 AWG	8 AWG
	VOLTAGE AT END OF THE WIRE	23.28 VAC	23.29 VAC	23.28 VAC	23.28 VAC

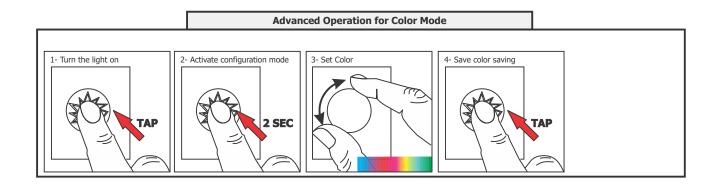


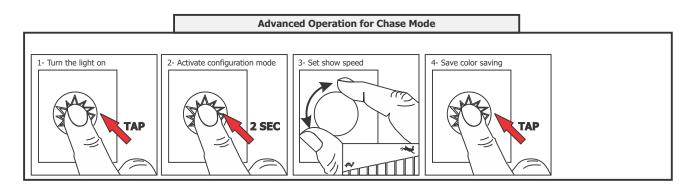


Configuring and Operating Dim Wheel

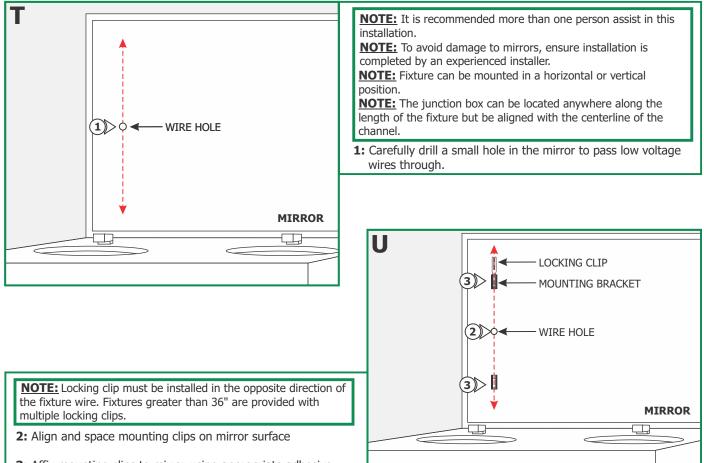








Section Five: Installing Twiggy Fixture on Mirror



3: Affix mounting clips to mirror using appropriate adhesive.

