O.S ZIHW

INSTALLATION GUIDE BI-DIRECTIONAL STEM





FOR FIELD ASSISTANCE PLEASE CALL +1-213-255-2060 #4

- Before wiring to power supply and during servicing or relamping, turn off power at fuse or circuit breaker.
- All servicing or relamping must be performed by qualified service personnel.
- Product must be grounded to avoid potential electric shock or other potential hazard.
- Product must be installed at locations and heights, in a manner consistent with its intended use, and in compliance with electrical code and local codes.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE



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INSTALLATION GUIDE

WHIZ 2.0 BI-DIRECTIONAL STEM







Fixture cables go through the stem and all the way through.



Screw stem in place.



(A) Push the cables through a Hex screw and tighten on stem grooves.

(B) Fasten the stem onto the lower bracket.



Fasten the top bracket on the desired location on the ceiling.

meteor-lighting.com 1860 S Carlos Ave, Ontario, California 91761 E: tech@meteor-lighting.com T: 213-255-2060 Meteor Lighting reserves the right to make changes to this product for design and development improvements at any time without prior notice, and such modification shall be effective immediately. ©Meteor Illumination Technologies, Inc.

WHIZ 2.0 BI-DIRECTIONAL STEM

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Align both lower and upper brackets and fasten in place.



Unscrew the DC junction box and loosen the cable clamp. Insert the FC wire through the cable clamp and connect them to the wires in the junction box. Refer to wiring diagram for detailed explanation of wiring diagram.



Slip the power box hook fastener over the lock-in grooves allocated and fasten screws on either side to keep the power box in place.



Connect AC Cable to Junction Box.



Hook the safety cable.





SPVD / 0-10V

150 (120W Downlight, 30W Uplight) 180 (120W Downlight, 60W Uplight) 200 (170W Downlight, 30W Uplight) 230 (170W Downlight, 60W Uplight) 270 (240W Downlight, 30W Uplight) 300 (240W Downlight, 60W Uplight) 310 (280W Downlight, 30W Uplight) 340 (280W Downlight, 60W Uplight) Black (-) Pink (-) Red (+) Violet (+) White (Neutral) Green (Ground) Black (Line) -∕M∖ Green(Ground) /III M Downlight M Intensity Control Down Down M (0-10V) /M Uplight Intensity Control */*∏∖_ (0-10V) Up Up Violet (Dim+) Pink/Gray (Dim-) Black (Dim+) <u>annn</u> MALLE White (Dim-) LED Fixture

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Power Box

*Not to scale





DMX / DMXD



*Not to scale





DMX (RGB Uplight & White Downlight)

- 165 (120W Downlight, 45W Uplight)
- 215 (170W Downlight, 45W Uplight)
- 285 (240W Downlight,45W Uplight)

*Not to scale





DMX (W+RGB)

*Not to scale

300 (240W Downlight, 60W Uplight)



WHIZ 2.0

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DMX REQUIREMENTS

The Whiz 2.0 Bi-Directional fixture with DMX is a **single channel dmx** unit. The downlight and uplight are controlled **separately**. When placing an order, please indicate DMX address. (The DMX address will be listed on the back of the fixture). Do not connect more than 32 fixtures per DMX daisy chain.

DMX Address			
Fixture	Uplight	Downlight	
#1	1	2	
#2	3	4	
#3	5	6	

The fixture can be connected with RJ45 or XLR sockets. DMX cables **are not** included; please refer to compatible DMX cabling list for more information. The final fixture on each daisy chain should be terminated by the use of a DMX terminator purchased from a 3rd party or from Meteor.

CONNECTION	RJ45 (CAT5e)	5-PIN XLR
Common	WHITE/BROWN(PIN7) & BROWN (PIN 8)	PIN 1
Signal -	ORANGE (PIN 2)	PIN 2
Signal +	WHITE/ORANGE (PIN 1)	PIN 3
Spare	-	PIN 4
Spare	-	PIN 5



COMPATIBLE DMX CABLING LIST

DMX uses a cable consisting of two twisted pairs plus a shield to carry data. The cable must be specifically impedance matched for the digital DMX signal, meaning that microphone cable or other non-rated cable **must not be used to carry DMX**. Network cable (Cat5, 5e or 6 cable) may be used to carry DMX in an installation; however special consideration must be given to shielding and termination. Under no circumstances should solid core cable like Cat5 be terminated into a screw down connector.

Meteor recommends the use of Belden 9729 or Belden 9841 for DMX installation. Belden 9729/9841 is a two pair cable, which allows for a spare pair for 'out and back' type terminations if needed.

INSTALLATION GUIDE

WHIZ 2.0

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NOTES

Application note : Wiring for DMX/RDM lighting systems

DMX/RDM is a robust and reliable system for lighting control. However, if not implemented correctly, problems can arise such as random flashing of lights, erratic operation and delays in responding to commands. This document explains the best practices in DMX wiring.

Important things to consider are:

- 1. DMX is a three-wire system. Use all three!
- 2. DMX is based on the EIA-485/RS-485 standard.
- 3. Always use cable specifically designed for DMX / RS-485. These cables have an impedance of 120Ω and a low capacitance. For instance : Belden 9729.
- 4. DMX must be terminated with a 120 $\!\Omega$ resistor to prevent reflections.
- 5. A daisy chain topology should be used.
- 6. After 32 unit loads a repeater/booster should be used. (Important : For tunable white fixtures, After"32" unit loads a repeater/booster should be used.)
- 7. Keep cabling below 200 meters between the controller and the last driver.
- 8. It is generally considered good practice to provide separate DMX in and DMX out / DMX Thru connections to your fixture to aid in installation. This can be in the form of pigtails, RJ-45 connectors or 5-pin XLR connectors.
- 9. Use twisted pair cables with an impedance of 120Ω and a low capacitance.
- 10. UTP Cat5 or Cat6 network cable can also be used but have a slightly lower impedance of 100Ω .
- 11. If shielded cable is used, only connect shield to ground on one side (typically, the controller shouldhave its shield terminal connected to ground).
- 12. Not following the above recommendations may seem to work at first, but can cause problems. Sometimes after weeks of seemingly normal operation.