



Allegro Washer AC INSTALLATION GUIDE V1.1



Cover:

Allegro Washer AC RGB Allegro Washer AC DW Allegro Washer AC DW Allegro Washer AC SW (DMX)

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SAFETY AND OPERATION



Please read through Safety and Operation before start of the installation.

- 1. CAUTION Unplug the power supply from the mains power before connecting any cables as this can damage the products.
- CAUTION Avoid looking directly into the LED light source at close range for your own safety.
- 3. Persons installing this product should make sure:
 - a. The installation complies with all applicable codes, state and local laws, ordinances, standards and safety regulations.
 - b. The installation environment is carefully studied and suitable surge protection measure(s) is taken.
 - c. He or she is qualified for the handling of electrical equipment.
- 4. Do not attempt to install or use the product until installation instructions and safety labels are fully understood. This product is designed for indoor and outdoor use.
- 5. Ensure product operates within the specified temperature range. (Refer to 5. TECHNICAL SPECIFICATION for more details.)
- 6. Do not attempt to open the product. Not user serviceable.
- 7. Do not use the product if any part of it, or the power cables are damaged.
- 8. Only use product for specified voltage, do not exceed. (Refer to 5. TECHNICAL SPECIFICATION for more details.)
- 9. Always maintain connection to ensure waterproofing.
- 10. If the product has been subjected to drastic temperature variances, for example, following transportation, do not connect the fixture until it has reached room temperature, as moisture condensation may cause electric shock and product damages.
- 11. When installing the products and system power supplies, please ensure they will not be exposed to moisture and extreme heat (and direct sunlight for outdoor products). Besides, keep a clean operating environment for the fixtures and system power supplies.
- 12. Please study this Installation Guide thoroughly and check the latest Technical Specification Sheets available from the Traxon website www.traxontechnologies.com | www.osram.us/traxon before setup.
- 13. Any non-compliance of the Installation Guide will void the Traxon warranty.

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INTRODUCTION

1.1 General

The Allegro Washer AC series is a compact, AC line powered high brightness luminaire. The series is controllable via DMX512. The luminaire can be simply daisy-chained to form long runs.

Model	Power Consumption (W)	Dimensions (Ø x H x D mm)
Allegro Washer AC 50W	50	Ø235 × 317 × 203
Allegro Washer AC 100W	100	Ø310 × 395 × 252
Allegro Washer AC 150W	150	Ø392 × 476 × 264
Allegro Washer AC 200W	200	$\emptyset 392 \times 476 \times 264$

Features:

- Outdoor applications
- Protection Class IP66
- Suitable for coastal environments
- Impact rating IK09, IK10
- Windforce compliant to IEC 60598-2-3
- Vibration compliant to 3G ANSI C136.31
- Input voltage: 220-240V AC, 120V/277V AC 50/60Hz
- Integrated mounting platform with 135° vertical tilt and ±180° horizontal adjustment
- DMX512
- Remote Device Management (RDM)
- · CE, cETLus
- DynaMood®: BinOne · BoostOne · BeamOne · AddressOne

1.2 Dimensions

FIG.1: Allegro Washer AC 50W

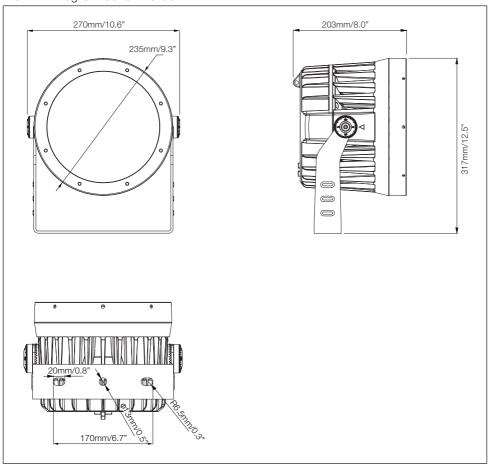


FIG.2: Allegro Washer AC 100W

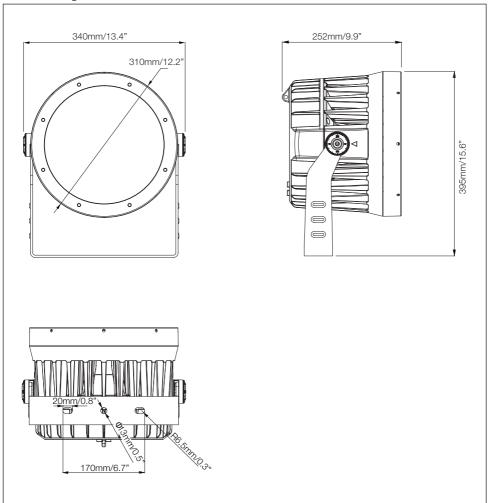
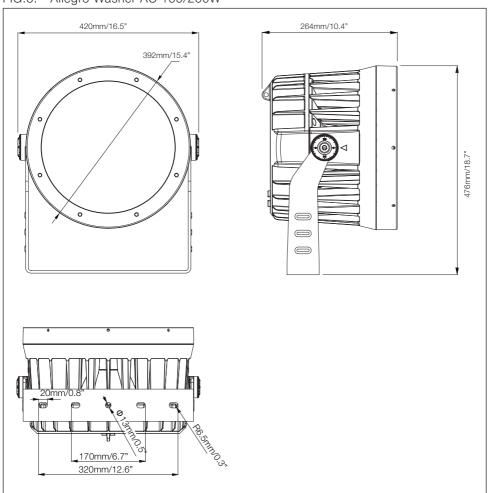
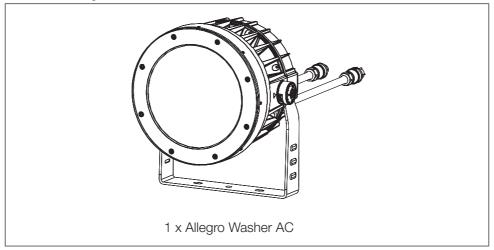


FIG.3: Allegro Washer AC 150/200W



1.3 Packing Contents

FIG.4: Packing Contents



INSTALLATION

2.1 Points To Consider

Plan your installation before mounting any Allegro Washer AC. The following should be considered for a successful installation:

- Weather conditions and ambient temperature of installation site.
- Installation distances and appropriate cable lengths. Please consult your local Traxon™
 office or authorized agent for necessary aid.
- The number of Allegro Washer AC and appropriate power sources.
- Distance between each Allegro Washer AC for thermal expansion.
- Proper surge protection.

2.1.1 Installation Checklist

- 1. Prepare cables and all necessary accessories.
- 2. Perform functional check of Allegro Washer AC. Take care not to damage cables/connectors during pre-installation checks.
- 3. Ensure all pre-installation checks laid out below have been followed.
- Mount the Allegro Washer AC on-site. If the installation is to be left uncompleted overnight, place all non-connected LED Engines and Allegro Washer AC in an indoor environment.



Ensure all the Interconnection Cables, Allegro Washer AC and power sources are initially stored in a dry area to guarantee the complete sealing of the system from water before installation.

2.2 Pre-Installation Checks

2.2.1 Sequence For Cable And Connector Preparation

- 1. Trim Cable.
- 2. Plan for any possible bending of cables.
- 3. Fix cable ends with connectors.
- 4. Complete sealing of connectors by tightening screw nut with spanner/wrench.
- 5. Unplug Dust Caps/Waterproof End Caps and keep safe for reuse.
- 6. Connect luminaries with power sources and data injector boxes with connection cables in the daisy-chain manner described in the wiring diagram.
- 7. Open Short Test should be performed to ensure cable wires are connected correctly. Recrimping of wires should be done if any failures occur.
- 8. Perform functional check on all Allegro Washer AC.
- 9. Report any functional defect found to your nearest Traxon Technologies office. DO NOT attempt to install an Allegro Washer AC with functional defects on-site.

2.2.2 Cable Bending

Cable must NOT be bent below the Minimum Bending Radius (4 x Cable Diameter) as specified by cable manufacturer and the Non-Bendable Length of 5cm near the connector end MUST be adhered to.

Bending radius (for conductors):

Note the minimum bending radius for conductors > 1.5mm2.

Pull forces on the contact points can be avoided by proceeding as follows:

a - Bend the wire as required

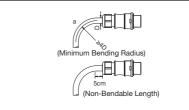


FIG.5: Cable Bending

Avoid vertical placement of the connectors.

If vertical installation is unavoidable:

- Add silicon glue on the surface of cable gland.
- Layout the cable to have drip loop to allow water run off the wire.

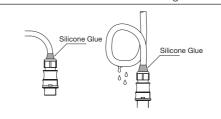


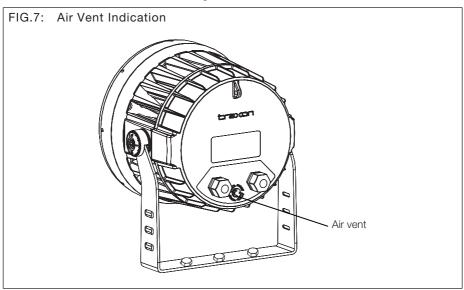
FIG.6: Connector vertical installation warning

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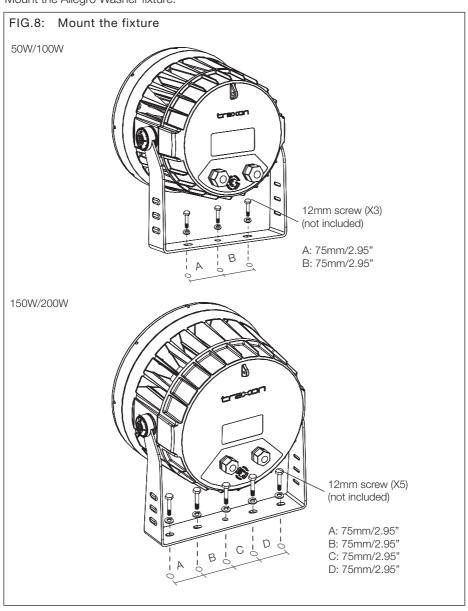
2.3 On-Site Installation



- DO NOT attempt installation in wet or severe weather conditions.
- DO NOT leave and expose any Allegro Washer AC or power sources unconnected under wet/raining or snowing environment.
- IP failure induced by stressed/damaged cables during or after installation will not be under warranty by Traxon Technologies.
- ALWAYS keep the cables protected from sharp objects and ensure no damage is generated on the cable.
- Failure to keep Allegro Washer AC within the operating temperature range of -30°C to +50°C (-22°F to +122°F) and storage temperature range of -40°C to +70°C (-40°F to +158°F) will void the product's warranty.
- Do not leave and expose Allegro Washer AC without Dust Cap plugged under wet/raining or snowing environment as the Allegro Washer AC is not IP66 compliant unless properly connected. Do not obstruct or submerge the vent.



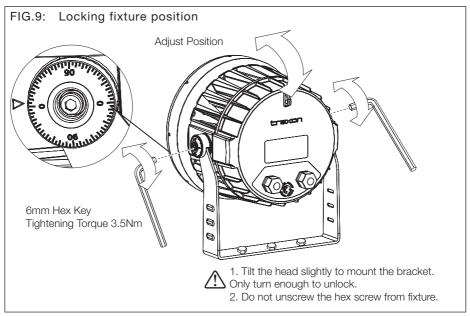
Mount the Allegro Washer fixture. 2.



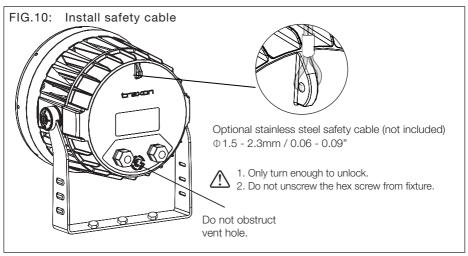
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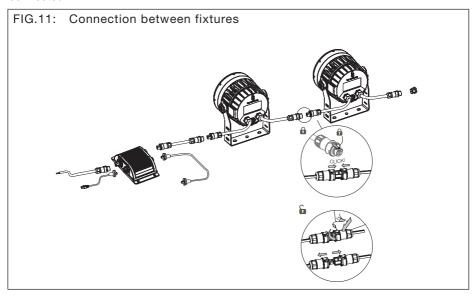
3. Tilt the Allegro Washer AC head to the desired angle.



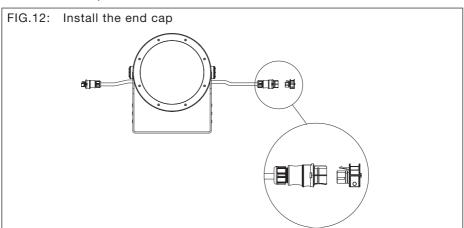
- 4. Then tighten lock screws with provided Hex Key in clockwise direction.
- 5. Install stainless steel safety cable (It is optional).



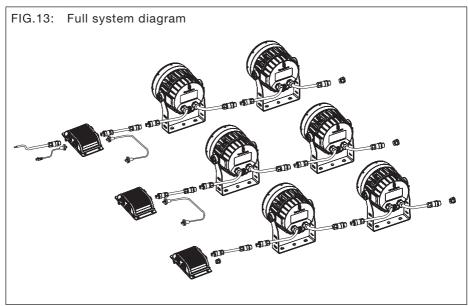
- 6. Unplug the Dust Caps/Waterproof End Caps and keep them in a container for reuse.
- Connect fixtures and Data Injector (not included) according to the diagram below. Fully connect all the Allegro Washer AC with connection cables one after the other. Do not work on the other unit's connections until the first unit under installation is properly connected.



8. Please use end cap for final fixture in connection chain.



Connect the rest of the system in reference to the full system diagram below. 9.



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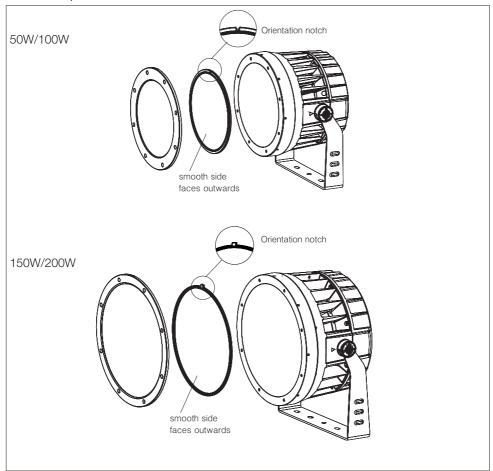
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2.4 Accessories Installation

One side of the diffuser has a smooth surface, the other side has a rough surface. The smooth surface must face the outside. On the smooth side, it is also printed the angle of the spread lens.

Please notice that spread lens has a notch for rotational orientation. The notch is at 0° (top center). And there are two types of notch for Allegro Washer AC.

FIG.14: Spread Lens Orientation

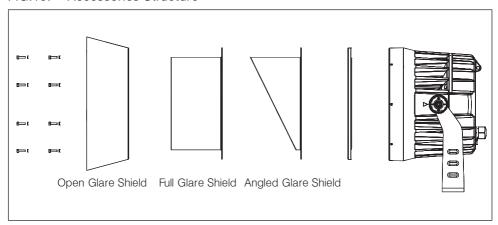


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The accessories of spread lens and anti-glare shield structure can be seen below:

FIG.15: Accessories Structure



Please see the figures below to find the installation method of the accessories of spread lens and three kinds of anti-glare shields.

FIG.16: Open Glare Shield Mounting

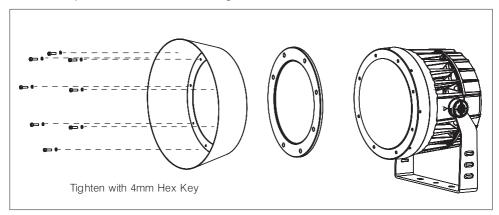


FIG.17: Full Glare Shield Mounting

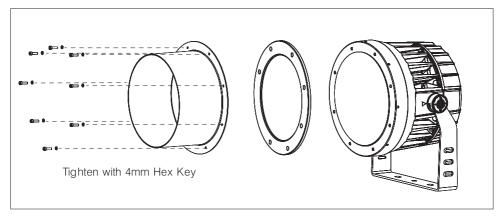
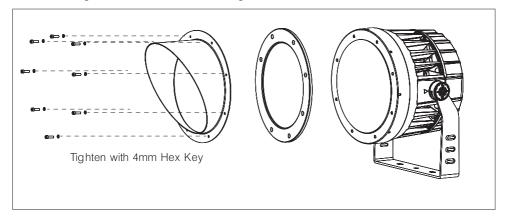
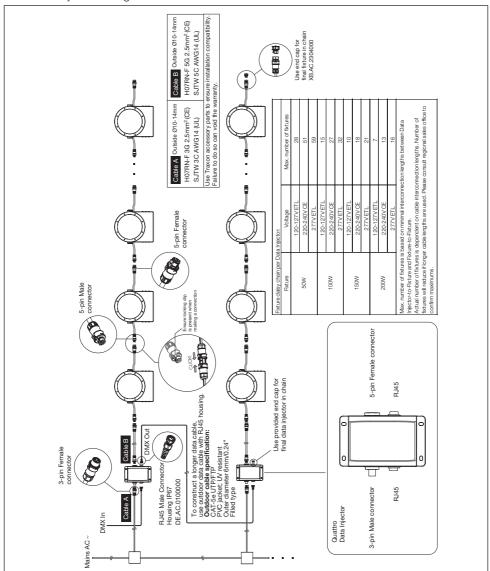


FIG.18: Angled Glare Shield Mounting



SYSTEM CONFIGURATION

FIG.19: System Diagram for CE/ETL



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CARE AND MAINTENANCE

- Traxon™ products are of superior design and quality and should be treated with care. The
 recommendations below will help fulfill any warranty obligations and gain good use and
 longevity from the products.
- Do not attempt or use the product(s) until you read and understand the installation instructions. Failure to adhere to these instructions could result in serious injury or property damage.
- Do not use product(s) if cables are damaged.
- Do not connect cables and connectors when wet or in wet area. Moisture on bare connectors can cause electric shock and damage to product(s).
- Do not use product(s) in extreme heat environment. Ensure there is sufficient airflow and use cool air circulation if required.
- Do not drop, knock, or shake product(s). Rough handling can damage the electronics and void the warranty.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean products.
 Wipe with a damp cloth on housings and a dry cloth on electronics to remove dirt or dust.
- Do not attempt to service or repair the product(s) unless done by an authorized service personnel. Contact your local Traxon office or distributor for details.
- If the product is not working as specified, please contact your nearest authorized service center or Traxon Technologies office for assistance.

TECHNICAL SPECIFICATION

RGBW

	50W	100W	150W	200W
Light Source	High power LEDs			
Color Range	RGBW (white	CCT 3000K)		
Beam Angle	Native 5° with	field-installable s	pread lens 10°, 3	80°, 55°, 80°
Power Input	220-240V AC,	120V/277V AC 5	60/60Hz	
Power Consumption	50W	100W	150W	200W
Weight	7.8kg/17.2lb	13.9kg/30.6lb	17.8kg/39.2lb	18kg/39.7lb
Operating Temperature	-30°C to +50°C / -22°F to +122°F (-20°C / -4°F starting)			
Storage Temperature -40°C to +70°C / -40°F to +158°F				

RGB

	50W	100W	150W	200W
Light Source	High power Ll	EDs		
Color Range	RGB			
Beam Angle	Native 5° with	field-installable s	spread lens 10°, 3	30°, 55°, 80°
Power Input	220-240V AC	120V/277V AC 5	50/60Hz	
Power Consumption	50W	100W	150W	200W
Weight	7.8kg/17.2lb	13.9kg/30.6lb	17.8kg/39.2lb	18kg/39.7lb
Operating Temperature	Operating Temperature -30° C to $+50^{\circ}$ C / -22° F to $+122^{\circ}$ F (-20° C / -4° F starting			°F starting)
Storage Temperature	-40°C to +70°C / -40°F to +158°F			

DW				
	50W	100W	150W	200W
Light Source	High power L	EDs		
Color Range	Dynamic Whit	e (2700K-5700K	()	
Beam Angle	Native 5° with	field-installable s	spread lens 10°,	30°, 55°, 80°
Power Input	220-240V AC,	120V/277V AC	50/60Hz	
Power Consumption	50W	100W	150W	200W
Weight	7.8kg/17.2lb	13.9kg/30.6lb	17.8kg/39.2lb	18kg/39.7lb
Operating Temperature -30°C to +50°C / -22°F to +122°F (-20°C / -4°F starting)			4°F starting)	
Storage Temperature	-40°C to +70°	°C / -40°F to +15	58°F	

SW

	50W	100W	150W	200W
Light Source	High power LEDs			
Color Range	2700K, 3000k	K, 4000K, 5700K		
Beam Angle	Native 5° with field-installable spread lens 10°, 30°, 55°, 80°			
Power Input 220-240V AC, 1		120V/277V AC	50/60Hz	
Power Consumption	50W	100W	150W	200W
Weight	7.8kg/17.2lb	13.9kg/30.6lb	17.8kg/39.2lb	18kg/39.7lb
Operating Temperature -30°C to +50°C / -22°F to +122°F (-20°C / -4°F s		4°F starting)		
Storage Temperature	-40°C to +70°	°C / -40°F to +15	58°F	

As with all electronic devices, LED output degrades over time - a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degradation is a complex function of many factors such as operating efficiency, duration of continuous operation, and operating conditions (e.g. ambient temperature).

Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers "sort" LEDs into bins according to different preset parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process always results in different binning distributions according to different production lots. Traxon uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

TROUBLESHOOTING



Caution: Ensure power supply is OFF when disconnecting / connecting cables.

Problem	Cause	Possible Solutions
Product does	Incorrect power	Check Mains Power
NOT light up after installation	connection	 Check power supply leads and wire connections
		 Ensure output wires are connected with proper polarity
Shadowing	Light source covered	Check for cables, wires or unwanted debris covering LED light source
Modules are dim	Excess products connected	 Ensure the power supplies are not overloaded due to an excess of products connected
Flickering	Incorrect power input/	Ensure the input voltage is correct
	Excess products connected	 Ensure the power supplies are not overloaded due to an excess of products connected

If problems persist or the product is not working as specified, please contact your nearest authorized service center or Traxon Technologies office for assistance.

7. WARRANTY STATEMENT

Traxon Technologies warrants its Products against material or workmanship defects from date of purchase, provided that the purchased items are used under the conditions stated in this user manual.

Please refer www.traxontechnologies.com | www.osram.us/traxon for all warranty terms and conditions.

Our Brands



