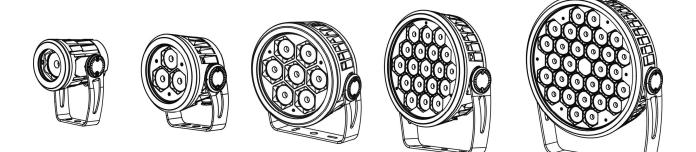
GSAR Dot series user manual



This user manual applies to the below models:

DOT S Q	DOT M Q	DOT L Q	DOT XL Q	DOT XXL Q
DOT S FW	DOT M FW	DOT L FW	DOT XL FW	DOT XXL FW
DOT S TW	DOT M TW	DOT L TW	DOT XL TW	DOT XXL TW

KEEP THIS MANUAL FOR FUTURE NEEDS CE

Thank you for purchasing a GS ARC product. You have acquired a powerful and versatile luminaire. We are confident that you will be satisfied with our excellent products and service. For your own safety, please read this user manual carefully before installing and operating the luminaire.

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1. SAFETY INSTRUCTIONS

1.1. IMPORTANT SAFETY WARNING

This luminaire left the factory in perfect condition. In order to maintain this condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this user manual.

Instructions pertaining to a risk of fire or injury to persons

- --- During use, luminaires are hot, turn off/unplug and allow to cool before handling luminaire
- --- Do not touch hot lenses, guard or enclosure of the luminaire.
- --- Keep luminaire away from materials that may burn
- --- Do not operate the luminaire fitting with a missing or damaged cover

If the luminaire has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The resulting condensation could damage the luminaire. Leave the luminaire switched off until it has reached room temperature.

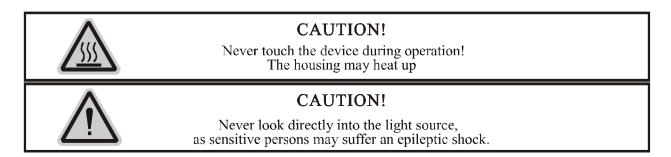
This luminaire falls under protection-class I, it is essential that the luminaire be earthed.

Should the lens of the luminaire be damaged or crack, it must be replaced.

Any electric connection must be performed by qualified persons. Ensure that the available voltage is not higher than AC 100-277V, 50/60Hz

The power cord must never be trapped or damaged by sharp edges. If this happens it must be replaced and the replacement of the cable must be perfromed by an authorized dealer.

If the external flexible cable or cord of this luminaire is damaged, it shall be replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.



Please keep luminaire away from children and non-professionals.

Important:

Damages to the luminaires caused by the disregard of this user manual are not subject to warranty. The Manufacturer and Dealer will not accept liability for any defects resulting from the misuse of the luminaire.

For safety reasons, please be aware that all modifications to the luminaire are forbidden.

1.2. GENERAL GUIDELINES

Do not shake the luminaire.

Avoid brute force when installing or operating the luminaire.

Operate the luminaire only after having familiarized yourself with its functions.

Do not permit operation by persons not qualified to operate the luminaire.

Please use the original packaging if the luminaire is to be transported back to the manufacturer or

dealer for service.

Should this luminaire be operated in any way other than as described in this manual, the luminaire may suffer damage and the warranty become void. Furthermore, such operation may lead to short-circuit, burns, electric shock, etc.

2. FEATURES

Power Supply

- AC 100-277V ~, 50/60Hz,
- Power Consumption: 12W @ DOT S, 38W @ DOT M, 65W @ DOT L, 170W @ DOT XL, 300W @ DOT XXL

Optical Source

- DOT S Q: 1 pcs of 10W Cree XLamp XM-L Color LEDs
- DOT S FW: 1 pcs of 10W LED of 4000K Color temperature
- DOT S TW: 1 pcs of 15W LED of 3000K & 6500K Color temperature
- DOT M Q: 3 pcs of 10W Cree XLamp XM-L Color LEDs
- DOT M FW: 3 pcs of 10W LEDs of 4000K Color temperature
- DOT M TW: 3 pcs of 15W LEDs of 3000K & 6500K Color temperature
- DOT L Q: 7 pcs of 10W Cree XLamp XM-L Color LEDs
- DOT L FW: 7 pcs of 10W LEDs of 4000K Color temperature
- DOT L TW: 7 pcs of 15W LEDs of 3000K & 6500K Color temperature
- DOT XL Q: 19 pcs of 10W Cree XLamp XM-L Color LEDs
- DOT XL FW: 19 pcs of 10W LEDs of 4000K Color temperature
- DOT XL TW: 19 pcs of 15W LEDs of 3000K & 6500K Color temperature
- DOT XXL Q: 30 pcs of 10W Cree XLamp XM-L Color LEDs
- DOT XXL FW: 30 pcs of 10W LEDs of 4000K Color temperature
- DOT XXL TW: 30 pcs of 15W LEDs of 3000K & 6500K Color temperature
- Light Source Life: >50,000H

Dimming Protocol

- DMX512 Control
- On-line upgrade the software
- RDM for monitoring DMX address, luminaire LED on/off and temperature

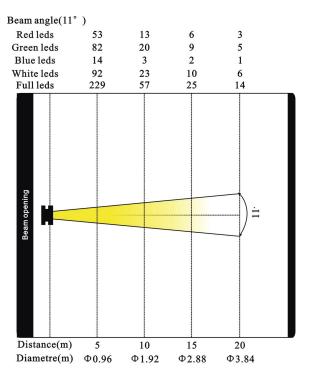
- Automatic addressing for DMX and RDM
- Beam angle: 11° @ DOT S& DOT M& DOT XXL
- Beam angle: 19° @ DOT L
- Beam angle: 21° @ DOT XL

IP Rating

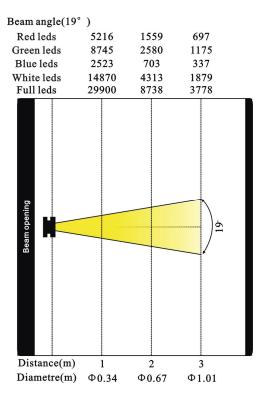
• IP66

Photometric Data

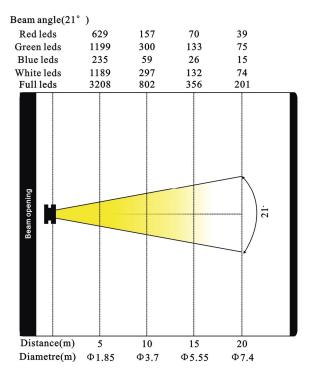
DOT S Series



DOT L Series

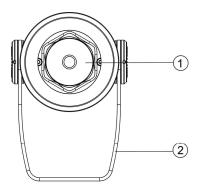


DOT XL Series

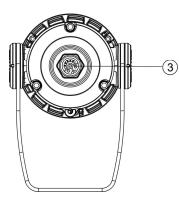


3. LUMINAIRE DETAILS

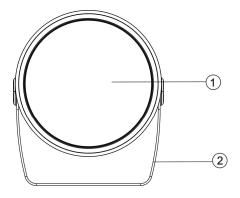
DOT S Series



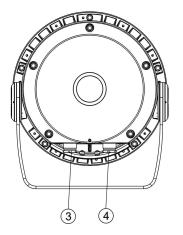
- 1) Lens
- 2) Bracket
- 3) 8-pin Signal In

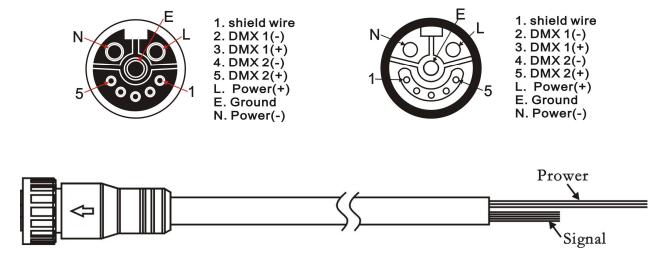


DOT M Series / DOT L Series / DOT XL Series / DOT XXL Series



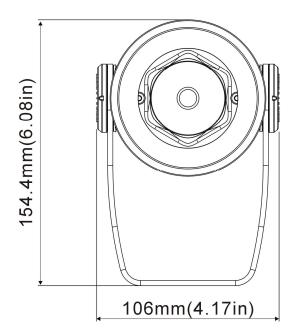
- 1) Lens
- 2) Bracket
- 3) 8-pin Signal In
- 4) 8-pin Signal Out

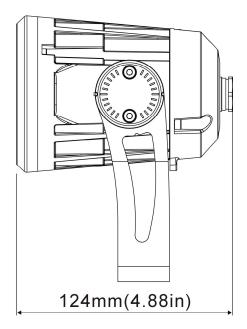




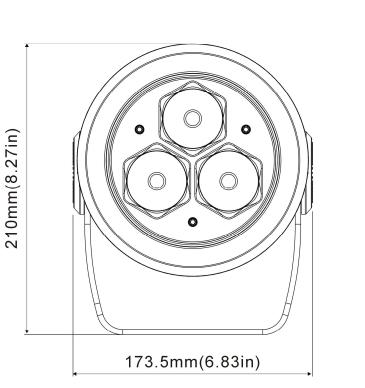
4. DIMENSIONAL DRAWINGS

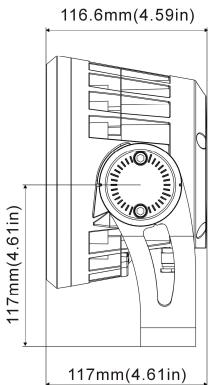
DOT S Series



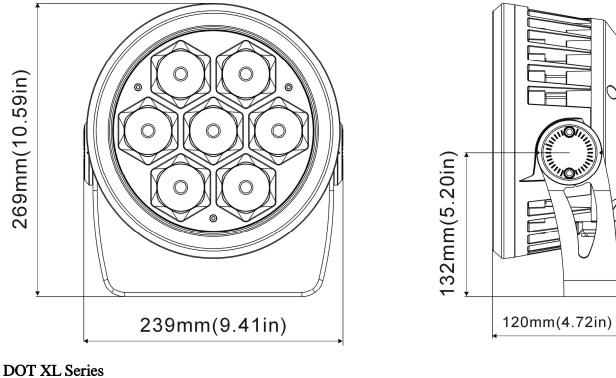


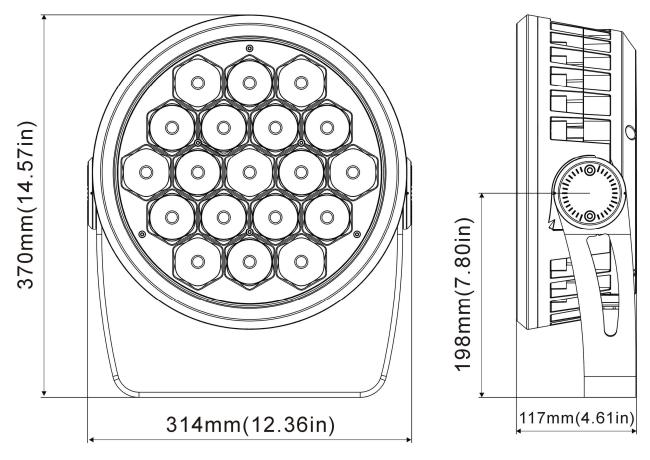
DOT M Series



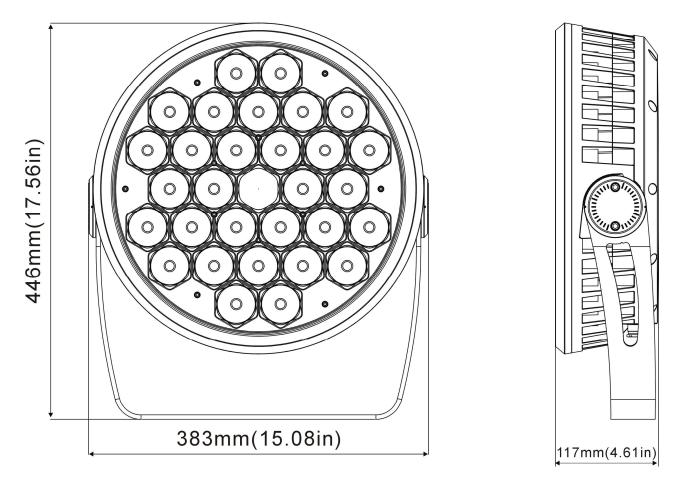


DOT L Series



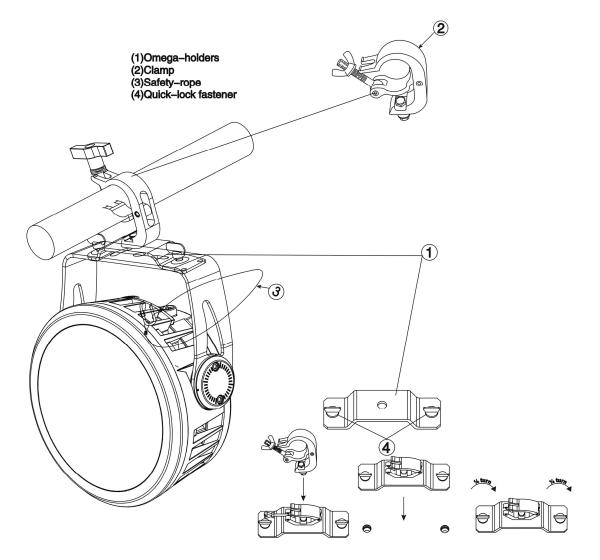


DOT XXL Series



5. INSTALLATION INSTRUCTIONS

5.1. Rigging using the omega brackets



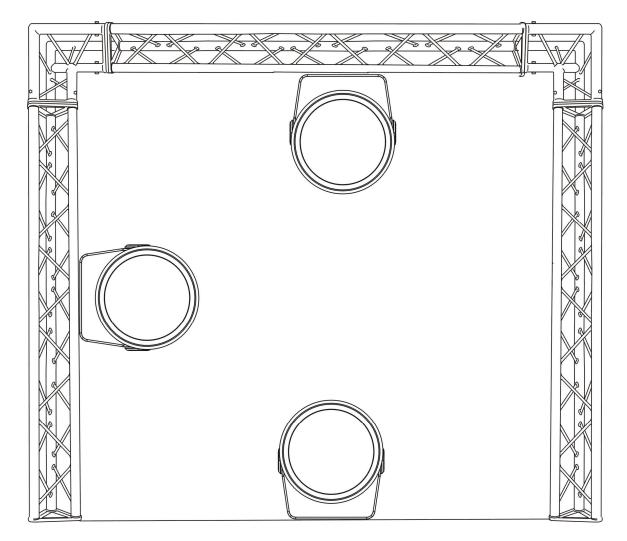
- Fix the clamp to the bracket by tightening the M12 nut and bolt to the bracket through the Φ 13 hole in the middle of the bracket.
- Insert the quick-lock fasteners of the first Omega holder into the respective holes on the bottom of the luminaire. Tighten the quick-lock fasteners fully clockwise.
- Pull the safety cable through the holes on the bottom of the base and over the trussing system or another suitable rigging point. Insert the end into the carabiner and tighten the safety screw.



Important:

This step is very important to ensure safe rigging of the luminaire.

5.2. Mounting Options

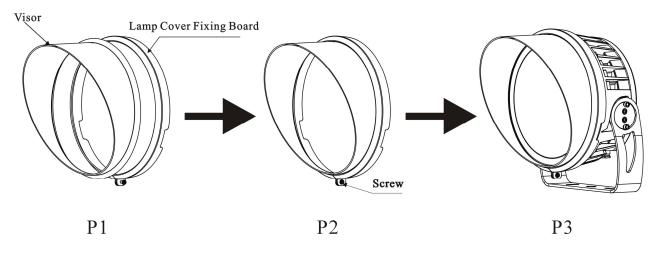


Be sure this luminaire is kept at least 0.1m away from any flammable materials.

Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the luminaire. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

5.3. Installing the visor

Procedure:



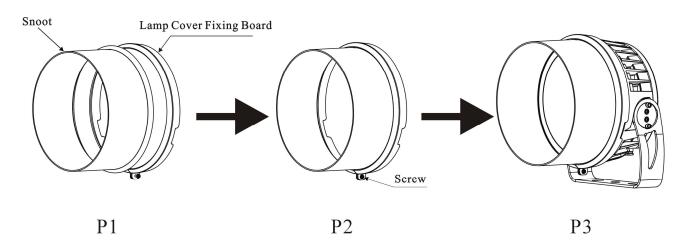
1) Place the Visor into the Optical Accessory holder as shown in Picture 1.

2) Insert the screw as shown in picture 2 without tightening it.

3) Put the untightened components into the front cover of the luminaire, and then tighten the screw, as shown above in Picture 3.

5.4. Installing the snoot

Procedure:



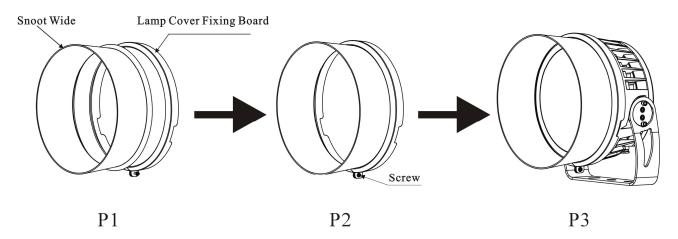
1) Insert the Snoot into the Optical Accessory holder as shown in Picture 1.

2) Insert the screw as shown in picture 2 without tightening it.

3) Put the untightened components into the front cover of the luminaire, and then tighten the screw, as shown above in Picture 3.

5.5. Installing the snoot wide

Procedure:



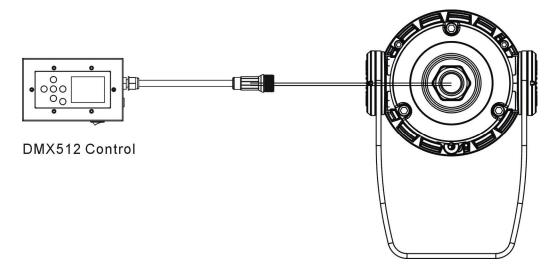
1) Insert the Snoot Wide into the Optical Accessory holder as shown in Picture 1.

2) Insert the screw as shown in picture 2 without tightening it.

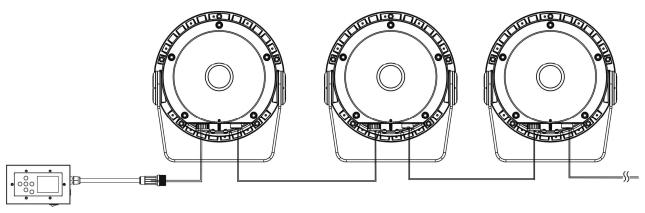
3) Put the untightened components into the front cover of the luminaire, and then tighten the screw, as shown above in Picture 3.

6. DMX-512 CONTROL CONNECTION

DOT S Series



DOT M Series / DOT L Series / DOT XL Series / DOT XXL Series



DMX512 Control

7. DMX CONTROL

DOT S Q / DOT M Q / DOT XL Q / DOT XXL Q

RGBW color mixing models offer 0 to 100% intensity control of red, green, blue and white:

DMX channel's functions and their values (4 DMX channels):

Channel	Value	Function
1		RED LED:
1	0-255	RED (0-Black, 255-100% Red)
2		GREEN LED:
2	0-255	GREEN (0-Black , 255-100% Green)
3		BLUE LED:
5	0-255	BLUE (0-Black , 255-100% Blue)
4		WHITE LED:
4	0-255	WHITE (0-Black , 255-100% White)

DOT L Q

RGBW color mixing models offer 0 to 100% intensity control of red, green, blue, white and color temperature:

DMX channel's functions and their values (5 DMX channels):		
Channel	Value	Function
1		RED LED:
	0-255	RED (0-Black , 255-100% Red)
2		<u>GREEN LED:</u>
2	0-255	GREEN (0-Black , 255-100% Green)
3		BLUE LED:
5	0-255	BLUE (0-Black , 255-100% Blue)
4		WHITE LED:
4	0-255	WHITE (0-Black , 255-100% White)
		COLOR TEMPERATURE:
5	0-10	General
	11-255	White 2100k~7000k

DOT S FW / DOT M FW / DOT L FW / DOT XL FW / DOT XXL FW

Variable white models offer 0 to 100% dimming control and color temperature control from 4000K:

DMX channel's functions and their values (1 DMX channels):		
Channel	Value	Function
1		WHITE LED:
1	0-255	WHITE (0-Black , 255-100% White)

DOT S TW / DOT M TW / DOT L TW / DOT XL TW / DOT XXL TW Variable white models offer 0 to 100% dimming control and color temperature control from 3000K and 6500K:

DMX channel's functions and their values (2 DMX channels):			
Channel	Value	Function	
1		COLD WHITE:	
1	0-255	WHITE (0-Black , 255-100% White)	
2		WARM WHITE:	
2	0-255	WHITE(0-Black , 255-100% White)	

8. CLEANING AND MAINTENANCE



CAUTION!

Disconnect from mains before starting maintenance operation.

The following points have to be considered during the inspection:

- -- All screws for installing the luminaire or parts of the luminaire have to be tight and screws must not be corroded.
- -- There must not be any deformation to the housing, lenses, or fixing points (ceiling, suspension, trussing).
- -- The electric power supply cables must not show any physical damage, material fatigue.
- -- Please use a moist, lint-free cloth when cleaning the luminaire
- -- Never use alcohol or solvents.
- -- Should any spare parts be required, please order genuine parts from your local dealer.

9. SERVICE

For all service needs please contact your local authorized dealer or GS Arc directly. Our contact details are: Email: <u>QA@terbly.com</u> Phone: +86 20 3996 6388 Address: No.109 Hai Yong Road, Shi Ji Town, Pan Yu Zone Guangzhou City, China, 511450

Remark: Errors and omissions for all information given in this manual are excepted. All information is subject to change without prior notice.