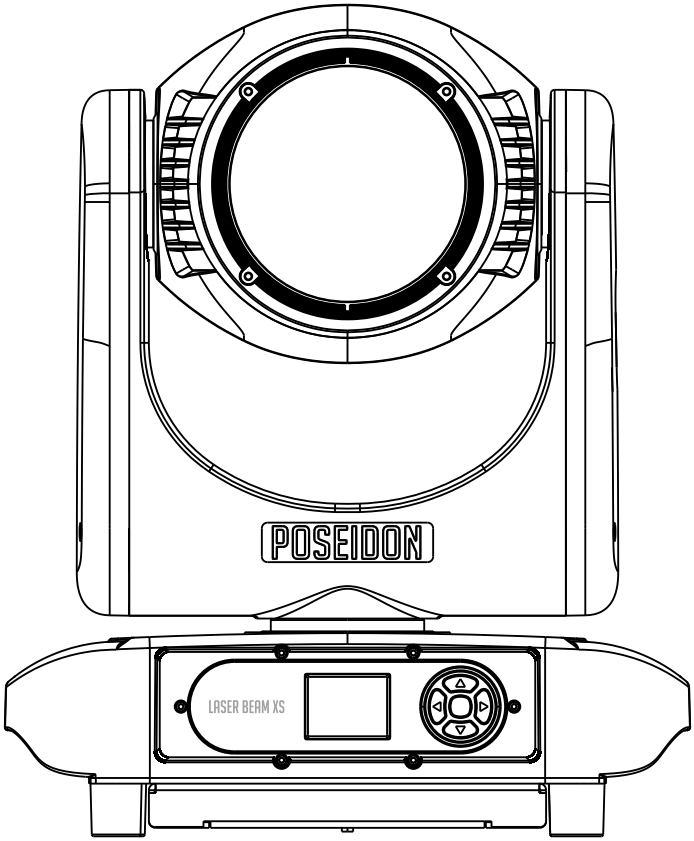
POSEIDON LASER BEAM XS MANUAL



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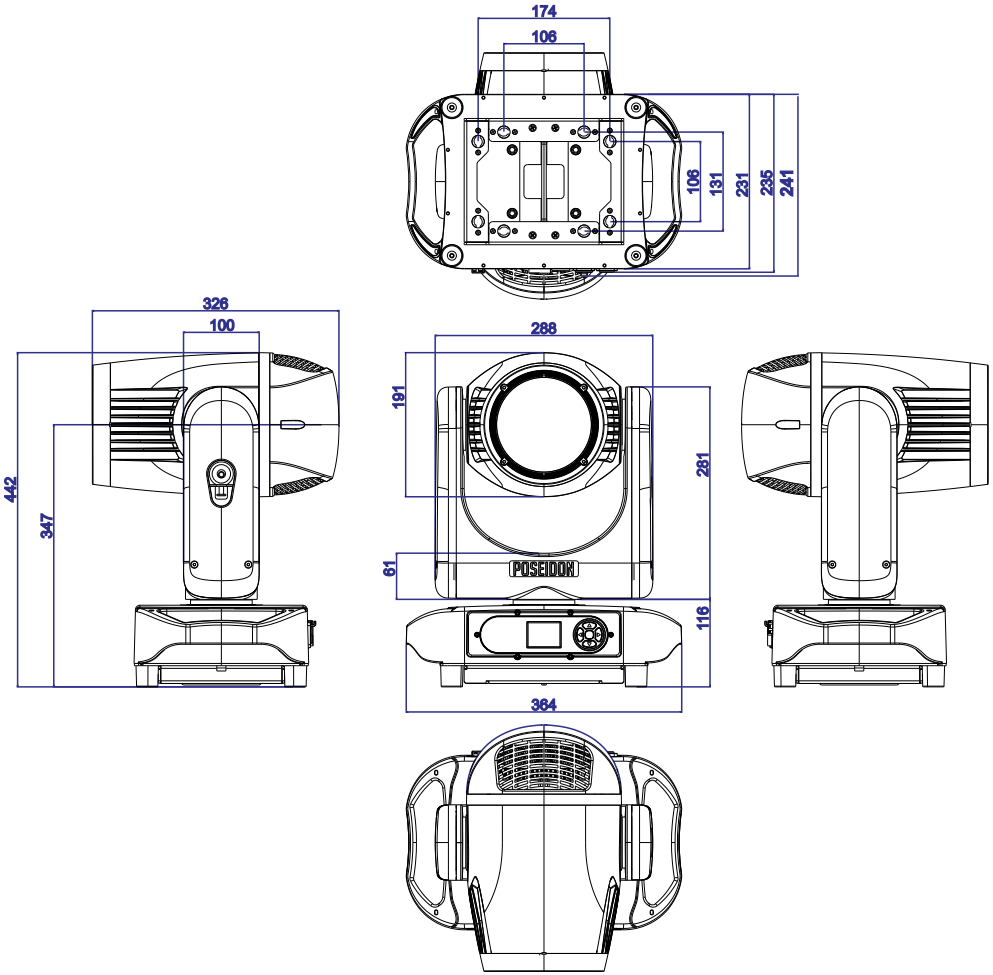
DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETERS



SAFETY INSTRUCTION

WARNING!
Read the safety precautions in this section before installing, powering, operating or servicing this product.

The following symbols are used to identify important safety information on the product and in this manual:

DANGER!
Safety hazard. Risk of severe injury or death.

DANGER!
Hazardous voltage. Risk of lethal or severe electric shock.

WARNING!
Fire hazard.

WARNING!
LED light emission. Risk of eye injury.

WARNING!
Burn hazard. Hot surface. Do not touch.

WARNING!
Wear protective eyewear.

WARNING!
Refer to user manual.

Do not look into the beam at short distance of the of the product.
Do not view the light output with optical instruments or any device that may concentrate the beam.

This product is for professional use only. It is not for household use.

This product presents risks of severe injury or death due to fire and burn hazards, electric shock and falls.

Read this manual before installing, powering or servicing the fixture, follow the safety precautions listed below and observe all warnings in this manual and printed on the fixture. If you have questions about how to operate the fixture safely, please contact your supplier.

PROTECTION FROM ELECTRIC SHOCK

- Disconnect the fixture from AC power before removing or installing any cover or part.
- Always ground (earth) the fixture electrically.
- Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault (earth-fault) protection.
- Before using the fixture, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.
- Power input and throughput cables must be rated 20A minimum, have three conductors 1.5 mm² (16 AWG) minimum conductor size and an outer cable diameter of 5 - 15 mm. Cables must be hard usage type (SJT or equivalent) and heat-resistant to 90°C minimum.
- Use only PowerCON TRUE 1® cable connectors to connect to power input sockets. Use only PowerCON TRUE1® cable connectors to connect to power throughput sockets.
- Isolate the fixture from power immediately if the power plug or any seal, cover, cable, or other component is damaged, defective, deformed, wet or showing signs of overheating. Do not reapply power until repairs have been completed.
- Refer any service operation not described in this manual to a qualified technician.
- Socket outlets used to supply fixture fixtures with power or external power switches must be located near the fixtures and easily accessible so that the fixtures can easily be disconnected from power.

PROTECTION FROM BURNS AND FIRE

- The exterior of the fixture becomes hot during use. Avoid contact by persons and materials. Allow the fixture to cool for at least 5 minutes before handling.
- Keep all combustible materials (e.g. fabric, wood, paper) at least 1 metres away from the fixture.
- Keep flammable materials well away from the fixture.
- Ensure that there is free and unobstructed airflow around the fixture.

- Do not illuminate surfaces within 12 metres of the fixture.
- Do not attempt to bypass thermostatic switches or fuses.
- If you relay power from one fixture to another using power throughout sockets, do not connect more than five fixtures in total to eachother in an interconnected chain.
- Connect only other fixtures to fixture power throughout sockets.
- Do not stick filters, masks or other materials onto any optical component.
- Do not modify the fixture in any way not described in this manual.

PROTECTION FROM INJURY

- Fasten the fixture securely to a fixed surface or structure when in use. The fixture is not portable when installed.
- Ensure that any supporting structure and/or hardware used can hold at least 10 times the weight of all the devices they support.
- Allow enough clearance around the head to ensure that it cannot collide with an object or another fixture when it moves.
- Check that all external covers and rigging hardware are securely fastened.

- Block access below the work area and work from a stable platform whenever installing, servicing or moving the fixture.
- Do not operate the fixture with missing or damaged covers, shields or any optical component.

PHOTOBIOLOGICAL SAFETY

- The light source of this product is based on laser diodes.
- This product qualifies for the laser products safety standard IEC 60825-1:2014, edition 3, “part 4.4, Laser products designed to function as conventional lamps”, under which it is classified as CLASS 1 LASER PRODUCT. Alternately evaluated under the standard IEC 62471-5:2015 "Photobiological safety of lamps and lamp systems", the photobiological risk classification is assigned as RISK GROUP 3 (RG3).

- **CAUTION!** Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Caution! Possibly hazardous optical radiation emitted from this product. do not look at operating lamp source. Eye injury may result.

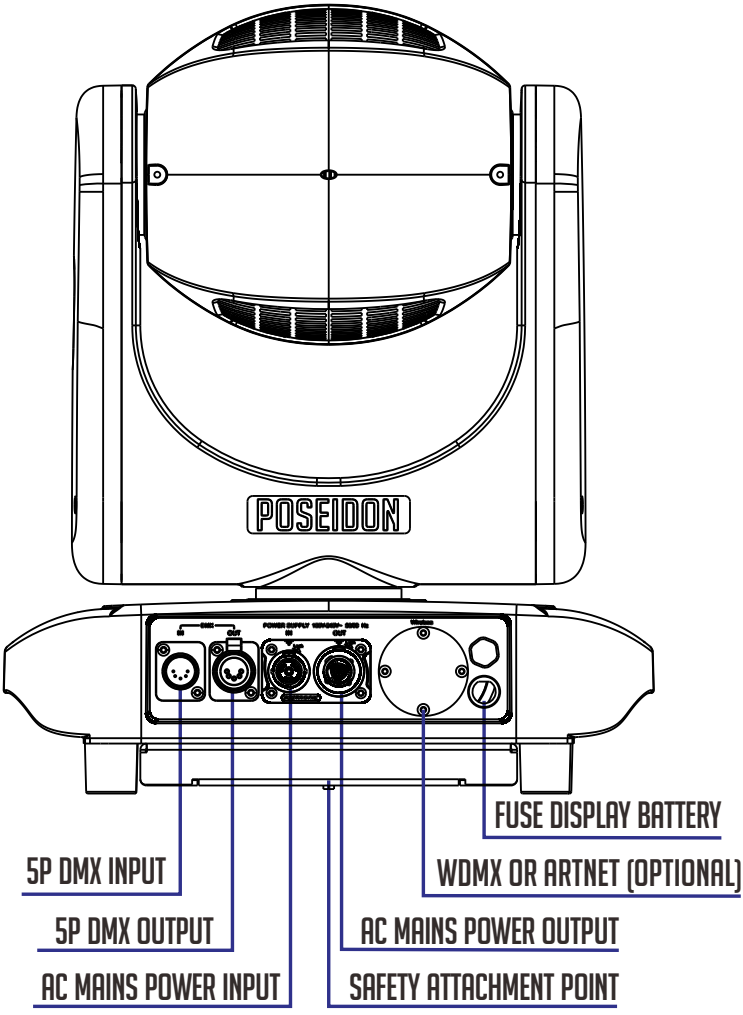
RG3
Hazard distance: Refer to the manual.
Not for household use.
EN/IEC 62471-5

- No direct exposure to the beam shall be permitted, RG3 IEC 62471 -5:2015.
- Operators shall control access to the beam within the hazard distance or install the product at the height that will prevent spectators eyes from being in the hazard distance.
- According to IEC 62471-5, the distance from RG3 to RG1 is 45 meters.

- **CAUTION!** Use of controls or adjustments or perfommance of procedures other than those specified herein may result in hazardous radiation exposure.
- The laser safety classification of this product is based on IEC 60825-1: 2014.
- The laser module information is as follows :

Wavelength:	Main wavelength 455nm
Beam divergence:	50°
Maximum output power	120W
Laser safety level:	CLASS 4

FIXTURE OVERVIEW



INTRODUCTION

POWERFUL OUTDOOR LASER BEAM XS

- 120W LASER SOURCE
- 128MM LENS FOR 1.1° BEAM
- CMY AND COLOR WHEEL
- GOBO WHEEL, FROST AND 2 PRISMS
- LIGHT WEIGHT SLIM HOUSING
- IP65 DUST AND WATER PROTECTION

USING FOR THE FIRST TIME

Warning! Read "Safety Information" before installing, powering, operating or servicing the fixture.
Before applying power to the fixture:

Check that the local AC mains power source is within the fixture's power voltage and frequency ranges.

See "Power cables and power plug" on page 6. Install a PowerCON TRUE1 ® power input connector power cable.

AC POWER

Warning! Read "Safety Information" starting on before connecting the fixtures to AC mains power.

Warning! For protection from electric shock, the fixture must be grounded (earthed). The power distribution circuit must be equipped with a fuse or circuit breaker and ground-fault (earth-fault) protection.

Warning! Socket outlets or external power switches used to supply the fixture with power must be located near the fixture and easily accessible so that the fixtures can easily be disconnected from power.

Important! Do not insert or remove live PowerCON TRUE 1 ® connectors to apply or cut power, as this may cause arcing at the terminals that will damage the connectors.

Important! Do not use an external dimming system to supply power to the fixture, as this may cause damage to the fixture that is not covered by the product warranty.

The fixture can be hard wired to a electrical installation if you want to install it permanently, or a power plug that is suitable for the local power outlets can be installed on the power cable.

POWER VOLTAGE

Warning! Check that the voltage range specified on the fixture serial number label matches the local AC mains power voltage before applying power to the fixture.

The fixtures accepts AC mains power at 100-240V nominal, 50/60 Hz. Do not apply AC mains power to the fixture at any other voltage than specified.

Warning! This product contain a ni-mh battery

POWER CABLES

Power input and throughput cables must be rated 16A minimum, have three conductors 1.5 mm² (16 AWG) minimum conductor size and an outer cable diameter of 5 - 15 mm. Cables must be hard usage type (SJT or equivalent) and heat- resistant to 90°C minimum. In the EU the cable must be HAR approved or equivalent.

If you install a power plug on the power cable, install a grounding-type (earthed) plug that is rated 16A minimum. Follow the plug manufacturer's instructions. Table 1 shows standard wire color-coding schemes and some possible pin identification schemes; if pins are not clearly identified.

Wire Color (EU models)	Wire Color (US models)	Conductor	Symbol
Brown	Black	Live	L
Blue	White	Neutral	N
Yellow/Green	Green	Ground (earth)	or

Table 1: Wire color-coding and power connections

RELAYING POWER TO OTHER DEVICES

Warning! Do not connect more than four fixtures in total in one interconnected chain. Power can be relayed to another device via the PowerCON TRUE 1 ® throughput socket.

If you daisy chain the fixtures in a chain so that they all draw AC mains power via the first fixture, certain points must be respected:

A heavy duty, three-conductor, 16 AWG or 1.5 mm² cable with SJT or equivalent cable jacket must be used to connect the first fixture to

AC mains power. PowerCON TRUE1 ® connectors must be used to draw AC mains power from the fixtures power throughput socket and yellow PowerCON TRUE 1 ® connectors must be used to supply power at the fixture's power input sockets.

DATA LINK

A DMX 512 data link is required in order to control a fixture via DMX. The fixture has 5-pin XLR connectors for DMX data input and output. The pin-out on all connectors is pin 1 = shield, pin 2 = cold (-), and pin 3 = hot (+) Pins 4 and 5 in the 5-pin XLR connectors are not in use.

TIPS FOR RELIABLE DATA TRANSMISSION

To connect the fixture to data:

1. Connect the DMX data output from the controller to the 5-pin XLR connector of the nearest fixture.

2. Connect the DMX output of the first fixture to the DMX input of the next fixture and continue connecting fixtures.

PHYSICAL INSTALLATION

Warning! The fixture must be either fastened to a flat surface such as a stage or wall, or clamped to a truss or similar structure in any orientation using a rigging clamp.

Warning! Always attach an approved safety cable to one of the safety cable attachment points on the base.

Do not illuminate surfaces within 12 meters of the fixture. Ensure that flammable materials (wood, fabric, paper, etc.) are minimum 1 meters from the fixture and allow a free airflow around the fixture.

FASTENING THE FIXTURE TO A FLAT SURFACE

The fixture can be fastened to a fixed flat surface that is oriented at any angle. Check that the surface can support at least 10 times the weight of all fixtures and equipment to be installed.

Warning! The supporting surface must be hard and flat or cooling may be blocked, which will cause overheating. Fasten the fixture securely. Do not place it on unstable surfaces. Always attach a securely anchored safety cable to the safety cable attachment point.

1. Block access under the work area. Working from a stable platform, hang the fixture on the truss with the arrow on the base towards the area to be illuminated. Tighten the rigging clamp.
2. Secure the fixture against clamp failure with a secondary attachment such as an approved safety cable that is rated for the weight of the fixture using one of the attachment points at the edges of the base (see “Fixture overview”). Do not use any other part of the fixture as a safety cable attachment point.

The installation of the fixture has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.

The installation must always be secured with a secondary safety attachment, e.g. an appropriate catch net. This secondary safety attachment must be constructed in a way that no part of the installation can fall down if the main attachment fails.

When rigging, derigging or servicing the fixture staying in the area below the installation place, on bridges, under high working places and other endangered areas is forbidden.

The operator has to make sure that safety-relating and machine-technical installations are approved by an expert before taking into operation for the first time and after changes before taking into operation another time.

The operator has to make sure that safety-relating and machine-technical installations are approved by an expert after every four year in the course of an acceptance test.

The operator has to make sure that safety-relating and machine-technical installations are approved by a skilled person once a year.

The fixture should be installed outside areas where persons may walk by or be seated.

IMPORTANT! OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE, including (but not limited to) calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the projector. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodily injury or damage to property.The fixture has to be installed out of the reach of people.

If the fixture shall be lowered from the ceiling or high joists, professional trussing systems have to be used. The fixture must never be fixed swinging freely in the room.

Caution: Fixture may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the moving head!

Before rigging make sure that the installation area can hold a minimum point load of 10 times the fixture's weight.

When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in a distance of min. 1m.

Use an appropriate clamp to rig the fixture on the truss.

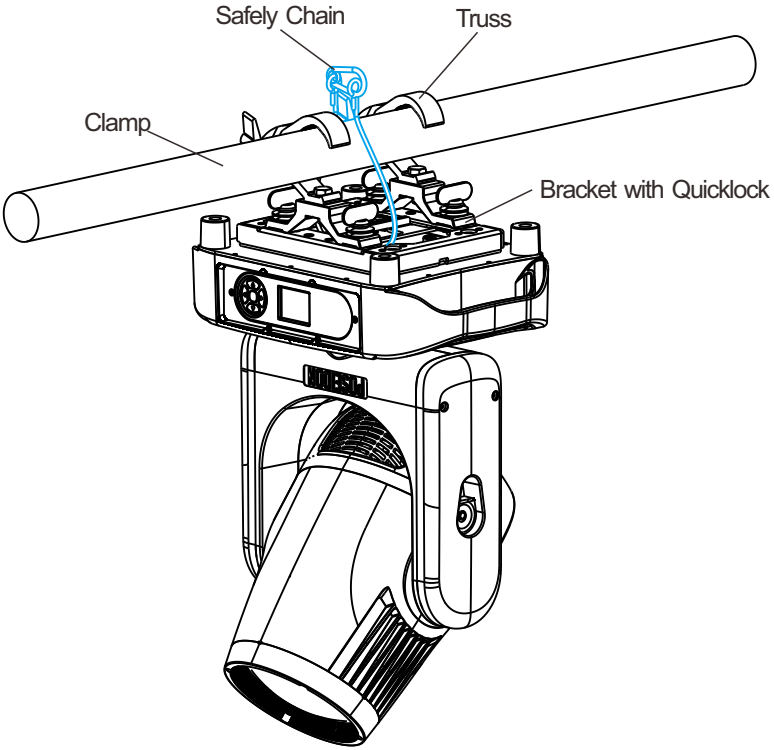
Follow the instructions mentioned at the bottom of the base.

Make sure that the device is fixed properly! Ensure that the structure (truss) to which you are attaching the fixtures is secure.

The fixture can be placed directly on the stage floor or rigged on a truss without altering its operation characteristics .

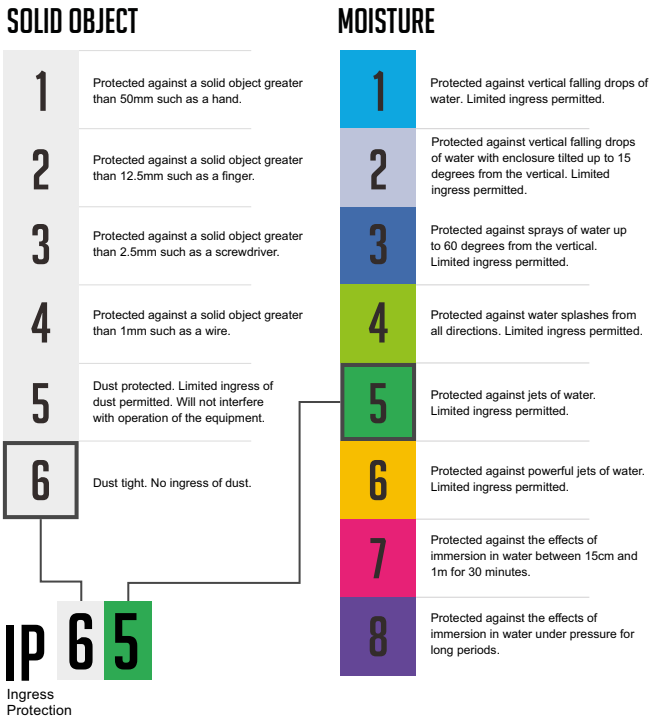
For securing the fixture to the truss, install a safety wire which can hold at least 10 times the weight of the fixture. Use only the safety wire with a snap hook with screw lock gate. Fasten the safety cable in the attachment point and around the truss as shown on the picture below.

RIGGING VIA OMEGA BRACKET:



OUTDOOR IP-RATED FIXTURES

CLF products are applied to official classified IP norm levels. For this product the IP rate is IP65 when using the covers for the chassis parts. IP65 means according classified norm: shielded against dust and pressurized water from any side. Typical use for outdoor rated stage events with normal weather acceptance. So no heavy rain, because then the water pressure over exceeds the IP norm.



CONDENSATION/MOISTURE INSIDE HOUSING

Because of high humidity levels during production condensation can occur inside the housing. This is mostly visible on the coldest parts of the fixture, like the front glass or display. To prevent this problem we work with special conditioned areas for outdoor fixtures. Because of the breathing air valves it is still possible to get humidity inside the fixture. This will evaporate slowly. Do not put wet fixtures in a flightcase, this will help humidity enter the fixture.

FIXTURES TEMPERATURE SPECIFICATION

Make sure the fixture is used within its working temperature range. Outside this range we cannot guarantee correct operation.

TEMPORARY USAGE:

Stage event equipment is designed for temporary outdoor use. Materials are not designed for long-term exposure to heavy weather conditions. Rubber covers will be negatively affected by long-term UV exposure and should be checked by qualified service technicians over time. Tightening screws too hard will negatively affect the IP-rating.

SETUP

Warning! Read “Safety Information” before installing, powering, operating the fixture.

CONTROL PANEL AND MENU NAVIGATION

The onboard control panel and backlit graphic display are used to adjust the DMX address, fixture settings (personality), service utilities. See “Onboard control menus” for a complete list of menus and commands.

Using the control buttons:

- To enter the menu select [ENTER].
- Press [UP], [DOWN], [LEFT] AND [RIGHT] to scroll within a menu or adjust values.
- To enter a menu, select a function or apply a selection, press [ENTER].
- To escape a function or move back one level in the menu structure, press [LEFT].

DMX ADDRESS SETTING

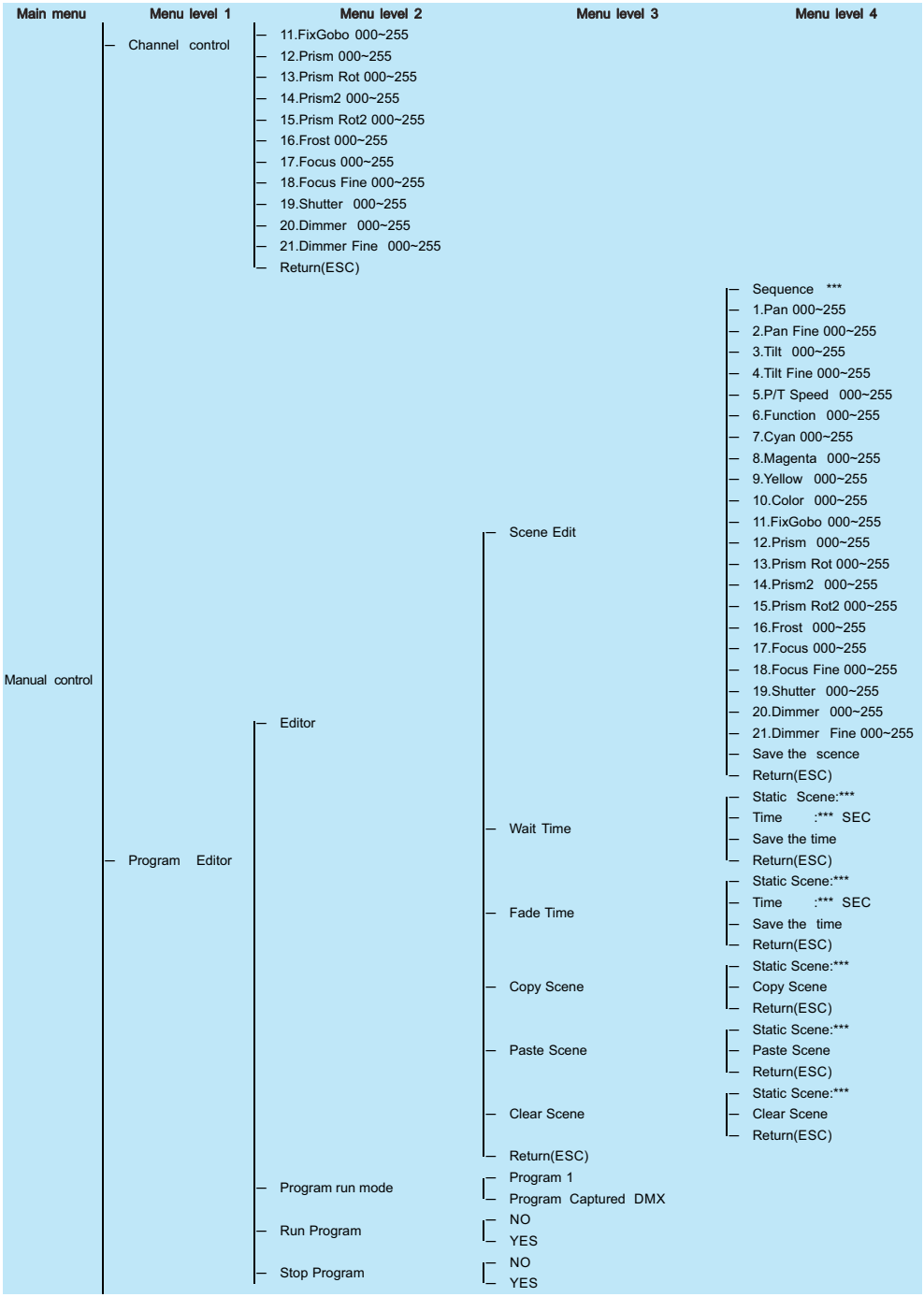
The DMX address is the first channel used to receive instructions from the controller. For independent control, each fixture must be assigned to a separate channel. The DMX address can be configured by using the DMX ADDRESS menu in the control panel.

- NO DMX: Display flashes and shows at ‘DMX: X‘.
- DMX: Display backlight turns off and shows ‘DMX: V'.
- The fixture is fully RDM ready. For RDM functions please refer to the ANSI/ESTA E1.20-2006 standard.

ONBOARD CONTROL MENU

Main menu	Menu level 1	Menu level 2	Menu level 3	Menu level 4
DMX Address	Address:001-512	Address(***-***) (Default: 001)		
	DMX Signal mode	Wire- -WDMX OFF(Default)		
		Wireless- -WDMX ON		
		Ethernet		
	Ethernet	Control Protocol	ArtNet	This menu can only be displayed when the artnet module is connected
			sACN	
		IP Address	***. ***. ***. ***	
		Mask Address	***. ***. ***. ***	
		Artnet Net ADD	1-128	
		Artnet Sub Net ADD	0-15	
		Artnet Universe ADD	0-15	
		sACN Universe	1-63999	
		DHCP	OFF	
			ON	
	Return(ESC)			
Information	Power hours	Total Hours: ***(H)		
		Rst Hours: ***(H)		
	Laser hours	Total Hours: ***(H)		
		Rst Hours: ***(H)		
	Temperature	In TEMP :000.0		
	Logged temperature	In temperature	Cur TEMP: ***	
			Max TEMP: ***	
			Min TEMP: ***	
		Return(ESC)		
	Fan information	Head fan	1.Power1:**.*V	
			2.Sp-Fan1:**.*%	
			3.Sp-Fan1:****R	
			4.Sp-Fan2:**.*%	
			5.Sp-Fan2:****R	
		Focus fan	1.Power:**.*V	
			2.Sp-Fan1:**.*%	
			3.Sp-Fan1:****R	
			4.Sp-Fan2:**.*%	
			5.Sp-Fan2:****R	
		Base fan	1.Power:**.*V	
			2.BaseFan1:**.*%	
			3.BaseFan1:****R	
		Return(ESC)		
	RDM UID	02E2:********		
	DMX live	1.Pan 000~255		
		2.Pan Fine 000~255		
		3.Tilt 000~255		
		4.Tilt Fine 000~255		
		5.P/T Speed 000~255		
		6.Function 000~255		
		7.Cyan 000~255		
		8.Magenta 000~255		
		9.Yellow 000~255		
		10.Color 000~255		
		11.FixGobo 000~255		
		12.Prism 000~255		
		13.Prism Rot 000~255		
		14.Prism2 000~255		
		15.Prism Rot2 000~255		
		16.Frost 000~255		
		17.Focus 000~255		
		18.Focus Fine 000~255		
		19.Shutter 000~255		
		20.Dimmer 000~255		
		21.Dimmer Fine 000~255		

Main menu	Menu level 1	Menu level 2	Menu level 3	Menu level 4
	System version	XY Board: V*.** LED Board: V*.** CMY Board: V*.** DIS Board: V*.**		
	Return(ESC)			
Personal	Display lock	OFF ON		
	Wireless options	Wireless ON/OFF	OFF ON	
		wireless settings	Idle Unlink transmitter	
		wireless status	Wirreless off Not found transmitte No wireless DMX Connected Transmitte No wireless DMX Connected Transmitte Wireless DMX Connect	This is an invisible menu that will only be displayed when a wireless module is inserted
	Frequency	1800HZ 3600HZ (Default) 7200HZ 25000HZ		
	Fan mode	standard (Default) Slient		
	Dimmer speed	Dimmer speed normal Dimmer speed Smooth		
	Dimmer curve	Linear Square (Default) I-Square S Curve		
	P/T invert	Pan invert	OFF ON	
		Tilt invert	OFF ON	
		Return(ESC)		
	Display	Backlight	Always on Auto OFF(15s)	
		Rotate	Normal Rotate 180	
		Backlight blink	ON OFF	
		Return(ESC)		
	P/T speed mode	Normal Fast Precise		
	CMY TV mode	OFF ON		
	Return(ESC)			
		1.Pan 000~255 2.Pan Fine 000~255 3.Tilt 000~255 4.Tilt Fine 000~255 5.P/T Speed 000~255 6.Function 000~255 7.Cyan 000~255 8.Magenta 000~255 9.Yellow 000~255 10.Color 000~255		


Main menu
Menu level 1
Menu level 2
Menu level 3
Menu level 4
Manual control
Channel control
11.FixGobo 000~255
12.Prism 000~255
13.Prism Rot 000~255
14.Prism2 000~255
15.Prism Rot2 000~255
16.Frost 000~255
17.Focus 000~255
18.Focus Fine 000~255
19.Shutter 000~255
20.Dimmer 000~255
21.Dimmer Fine 000~255
Return(ESC)
Program Editor
Editor
Scene Edit
Sequence ***
1.Pan 000~255
2.Pan Fine 000~255
3.Tilt 000~255
4.Tilt Fine 000~255
5.P/T Speed 000~255
6.Function 000~255
7.Cyan 000~255
8.Magenta 000~255
9.Yellow 000~255
10.Color 000~255
11.FixGobo 000~255
12.Prism 000~255
13.Prism Rot 000~255
14.Prism2 000~255
15.Prism Rot2 000~255
16.Frost 000~255
17.Focus 000~255
18.Focus Fine 000~255
19.Shutter 000~255
20.Dimmer 000~255
21.Dimmer Fine 000~255
Save the scence
Return(ESC)
Wait Time
Static Scene:***
Time :*** SEC
Save the time
Return(ESC)
Fade Time
Static Scene:***
Time :*** SEC
Save the time
Return(ESC)
Copy Scene
Static Scene:***
Copy Scene
Return(ESC)
Paste Scene
Static Scene:***
Paste Scene
Return(ESC)
Clear Scene
Static Scene:***
Clear Scene
Return(ESC)
Return(ESC)
Program run mode
Program 1
Program Captured DMX
Run Program
NO
YES
Stop Program
NO
YES

Main menu	Menu level 1	Menu level 2	Menu level 3	Menu level 4
		Run on power on	NO	
			YES	
		Capture DMX	Saved DMX data	Static Scene:***
				Saved Scene from DMX
				Return(ESC)
			Return(ESC)	
		Return(ESC)		
	System reset	Reset all		
		Pan/Tilt reset		
		Head motor reset		
		Return(ESC)		
	Return(ESC)			
Service	Error information	Error list		
		Empty list	NO	
			OFF	
		Return(ESC)		
	Reset Timers	Reset Power Hours	NO	
			YES	
		Reset Laser Hours	NO	
			YES	
		Return(ESC)		
	Factory	Load default	Go back	
			Load Default	
		Reset Total Timers	Total Power Hours	
			Total Laser Hours	
			Return(ESC)	
		Clear logged temperature	3255	
		Calibration	3256	Pan 000-255
				Tilt 000-255
				Cyan 000-255
				Magenta 000-255
				Yellow 000-255
				Color 000-255
				FixGobo 000-255
				Prism1 000-255
				Prism Rot 000-255
				Prism2 000-255
				Frost 000-255
				Focus 000-255
				Dimmer 000-255
				Return(ESC) 000-255
		Developer		
		Return(ESC)		
	Return(ESC)			
Language				
Test	Test P/T	STEP ***		
	Test effect	STEP ***		
	Test all	STEP ***		
	Return(ESC)			
Rotate display	Normal			
	Rotate 180			

DMX PROTOCOL

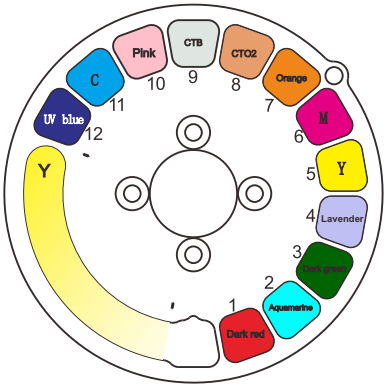
CHANNEL	Function	VALUE	SETTING	NOTE
1	Pan	0–255	Pan positioning	
2	Fine Pan	0–255	Fine Pan positioning	Angle : 0–540° Maximal Speed : 2.11S
3	Tilt	0–255	Tilt positioning	
4	Fine Tilt	0–255	Fine Tilt positioning	Angle : 0–270° Maximal Speed:1.15S
5	Speed pan/tilt	0–255	Speed pan/tilt	
6	Device Set (Hold 3s	0–9	Reserved	
		10–14	Display lock off	
		15–19	Display lock on	
		20–24	Display rotate normal	
		25–29	Display rotate 180°	
		30–34	Display backlight always on	
		35–39	Display backlight auto off(15s)	
		40–44	Display backlight blink off	
		45–49	Display backlight blink on	
		50–54	XYNormal mode	
		55–59	XYFast mode	
		60–64	XYPrecise mode	
		65–69	Reserved	
		70–74	CMYTVmode Off	
		75–79	CMYTVmode on	
		80–84	Reserved	
		85–89	Reserved	
		90–94	Reserved	
		95–99	Reserved	
		100–104	Pan invert off	
		105–109	Pan invert on	
		110–114	Tilt invert off	
		115–119	Tilt invert on	
		120–124	Reserved	
		125–129	Reserved	
		130–139	Reserved	
		140–149	Pan/Tilt reset	
		150–159	Head motor reset	
		160–169	Total reset	
		170–174	Fan Standard mode	
		175–179	Fan Silent mode	
		180–184	LED frequency 1.8kHz	
		185–189	LED frequency 3.6kHz	
		190–194	LED frequency 7.2kHz	
		195–199	LED frequency 25kHz	
		200–204	Dimmer curve linear	
		205–209	Dimmer curve square	
		210–214	Dimmer curve inv-square	
		215–219	Dimmer curve “S”	
		220–224	Dimmer speed normal	
		225–229	Dimmer speed smooth	
		230–234	Reserved	
		235–239	Reserved	
		240–255	Reserved	

CHANNEL	Function	VALUE	SETTING	NOTE
7	Cyan	0-255	Cyan	
8	Magenta	0-255	Magenta	
9	Yellow	0-255	Yellow	
10		0-4	White	
		5-8	White + Dark red	
		9-12	Dark red	
		13-17	Dark red + Aquamarine	
		18-21	Aquamarine	
		22-25	Aquamarine + Dark green	
		26-29	Dark green	
		30-34	Dark green + Lavender	
		35-38	Lavender	
		39-42	Lavender + Yellow	
		43-46	Yellow	
		47-51	Yellow + Magenta	
		52-55	Magenta	
		56-59	Magenta + Orange	
		60-63	Orange	
		64-68	Orange + CTO2 (2500K)	
		69-72	CTO2 (2500K)	
		73-76	CTO2 (2500K) + CTB (8000K)	
		77-81	CTB (8000K)	
		82-85	CTB (8000K) + Pink	
		86-89	Pink	
		90-93	Pink + Cyan	
		94-98	Cyan	
		99-102	Cyan + Dark blue	
		103-106	Dark blue	
		107-127	Reserved	
		128-191	color wheel shake fast to slow	5-0.2HZ
		192-255	color wheel shake slow to fast	0.2-5HZ
11	Fixgobo Wheel	0-3	Open	
		4-8	FixGobo 1	
		9-13	FixGobo 2	
		14-18	FixGobo 3	
		19-23	FixGobo 4	
		24-28	FixGobo 5	
		29-33	FixGobo 6	
		34-38	FixGobo 7	
		39-43	FixGobo 8	
		44-48	FixGobo 9	
		49-53	FixGobo 10	
		54-58	FixGobo 11	
		59-63	FixGobo 12	
		64-68	FixGobo 13	
		69-73	FixGobo 14	
		74-78	FixGobo 15	
		79-83	FixGobo 16	
		84-88	FixGobo 17	
		89-95	FixGobo1 shake , slow to fast	Speed : 0.2->10 HZ
		96-102	FixGobo2 shake , slow to fast	Speed : 0.2->10 HZ
		103-109	FixGobo3 shake , slow to fast	Speed : 0.2->10 HZ
		110-116	FixGobo4 shake , slow to fast	Speed : 0.2->10 HZ

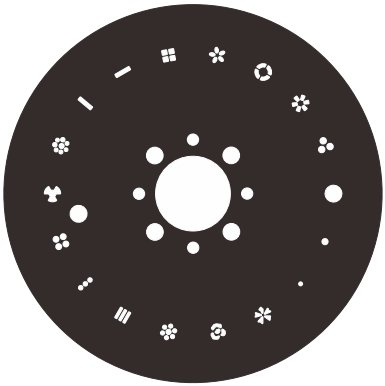
CHANNEL	Function	VALUE	SETTING	NOTE
		117-123	FixGobo5 shake , slow to fast	Speed : 0.2->10 HZ
		124-130	FixGobo6 shake , slow to fast	Speed : 0.2->10 HZ
		131-137	FixGobo7 shake , slow to fast	Speed : 0.2->10 HZ
		138-144	FixGobo8 shake , slow to fast	Speed : 0.2->10 HZ
		145-151	FixGobo9 shake , slow to fast	Speed : 0.2->10 HZ
		152-158	FixGobo10 shake , slow to fast	Speed : 0.2->10 HZ
		159-165	FixGobo11 shake , slow to fast	Speed : 0.2->10 HZ
		166-172	FixGobo12 shake , slow to fast	Speed : 0.2->10 HZ
		173-179	FixGobo13 shake , slow to fast	Speed : 0.2->10 HZ
		180-186	FixGobo14 shake , slow to fast	Speed : 0.2->10 HZ
		187-193	FixGobo15 shake , slow to fast	Speed : 0.2->10 HZ
		194-200	FixGobo16 shake , slow to fast	Speed : 0.2->10 HZ
		201-207	FixGobo17 shake , slow to fast	Speed : 0.2->10 HZ
		208-227	FixGobo Wheel CW fast to slow	Speed : 120->0 RPM
		228-229	Stop	
		230-249	FixGobo Wheel CCW slow to fast	Speed : 0->120 RPM
		250-255	Auto random gobo selection from fast to slow	
12	Prism	0-3	Prism out	
		4-199	Prism in	
		200-255	Shaking Prism from slow to fast	
13	PrismRot	0-63	Prism indexing	Angle : 0-360°
		64-127	Forwards prism rotation from fast to slow	Speed : 62.5->0 RPM
		128-191	Backwards prism rotation from slow to fast	Speed : 0->62.5 RPM
		192-207	from slow to fast 90° Swing	0.2->1 HZ
		208-223	from slow to fast 180° Swing	0.2->1 HZ
		224-239	from slow to fast 270° Swing	0.2->1 HZ
		240-255	from slow to fast 360° Swing	0.2->1 HZ
14	Prism2	0-3	Prism out	
		4-199	Prism in	
		200-255	Shaking Prism from slow to fast	
15	PrismRot2	0-255	Reserved	
16	Frost	0-3	Frost Out	
		4-255	Frost In	
17	Focus	0-255	**Focus 8bit**	
18	FocusFine	0-255	**FocusFine 16bit**	
19	Strobe	0 - 31	Strobe closed	
		32 - 63	Strobe open	
		64 - 95	Synchronous strobe,slow → fast	1-25HZ
		96 - 127	Strobe open	
		128 - 143	Fast closing Slow opening Slow → Fast	0.5-12HZ
		144 - 159	Slow closing Fast opening Fast → Slow	12-0.5HZ
		160 - 191	Strobe open	
		192 - 223	Random strobe,Slow → Fast	1-25HZ
		224 - 255	Strobe open	
20	Dimmer		**Dimmer 0% to 100% (0=default)**	
21	Dimmer Fine		**Dimmer Fine 0% to 100% (0=default)**	

GOBO OVERVIEW

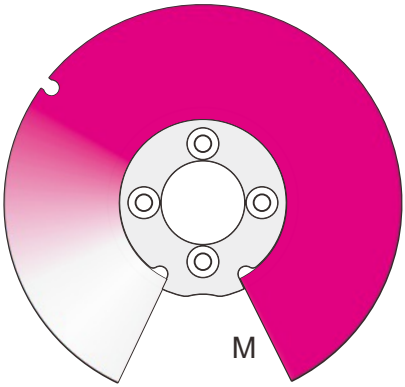
Color wheel

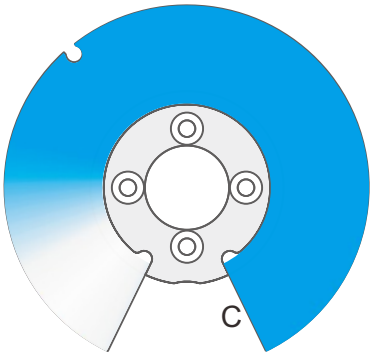


Static gobo wheel

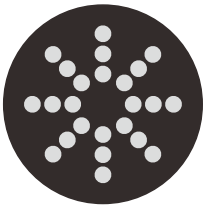


White

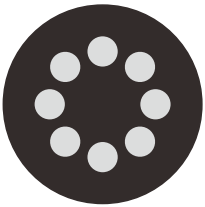




24 Prism

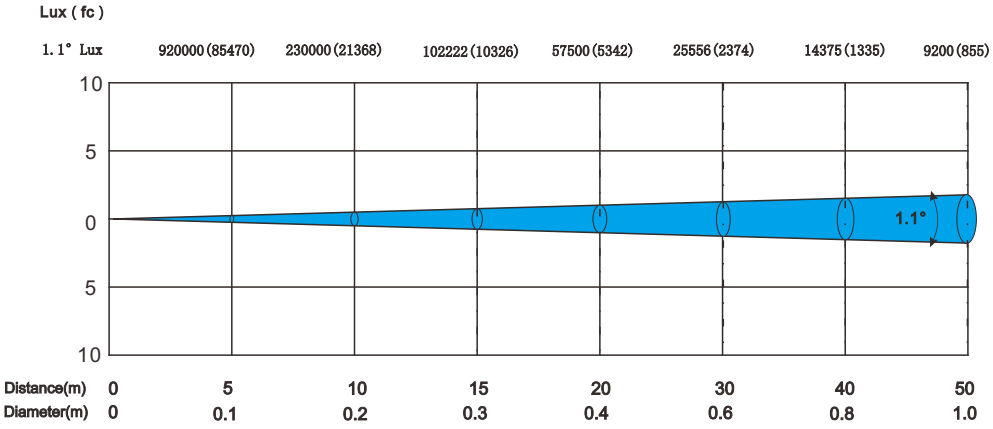


8 Prism

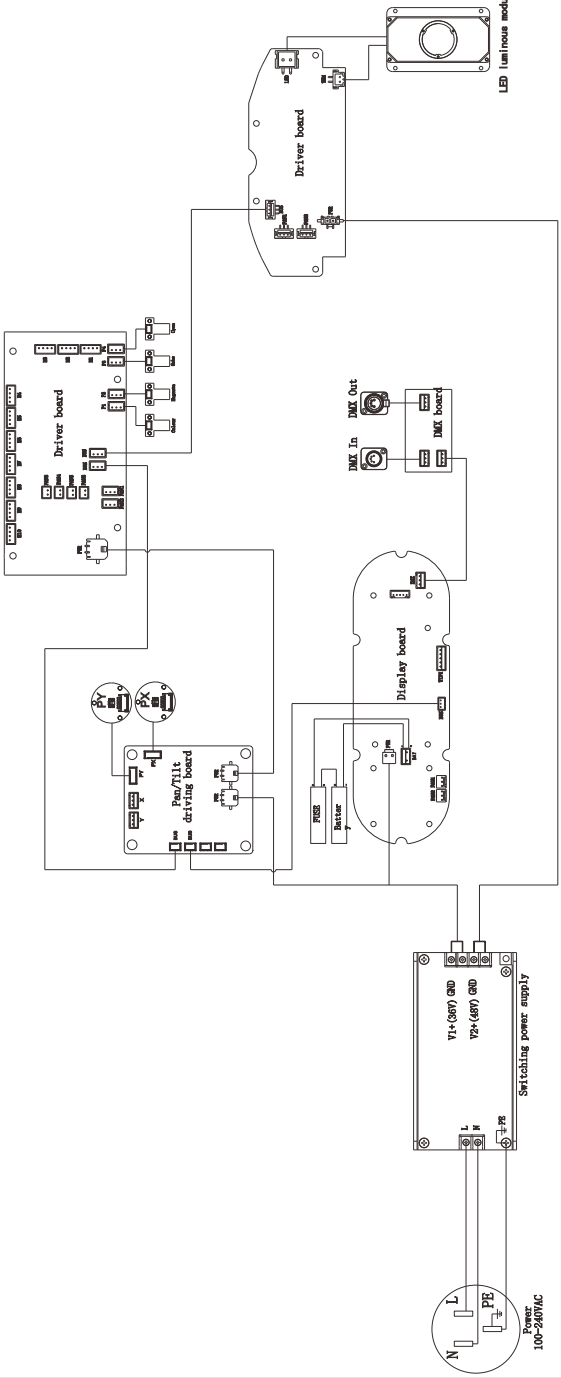


PHOTOMETRICS

distance, spot diameter and illumination diagram



CIRCUIT CONNECTION DIAGRAM

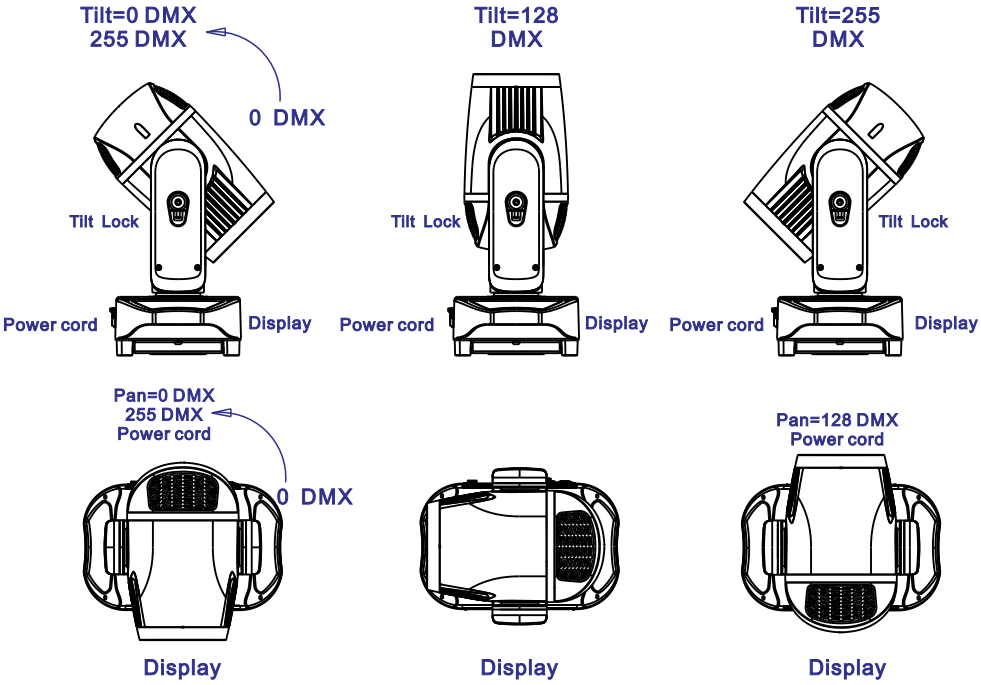


SPECIFICATIONS

Power	
Input voltage & rate	AC100-240V~ 50/60Hz
Standby power	68W
Total power consumption(at nominal voltage 230V)	233W
Typical current (at nominal voltage 230V)	2.33A
Cos φ -	0.996
Power plug type	Seetronic Powercon TRUE 1
Configuration	
Light Source	SH-LS120W (Laser)
Expected Lifetime	12000 hours
Color temperature	9256 K
CRI level	70 （Standard）
Light Output	3600 lm
Dimming frequency	1800Hz/3600Hz/7200Hz/25000Hz
Dimmer resolution	65535 (16Bit)
Optical	
Beam angle	1.1°
Photometric	
Output @10M	230000 lux
Output @50M	9200 lux
Effects	
Color Mixing	CMY
Color wheel	Fixed color wheel 12 + open
Static Gobe wheel	Fixed wheel 17 + open
Prism wheel	8 face prism + 24 face prism
Focus	16 bit
Frost	10°
Dimmer	16 bit 0 – 100%
Shutter	0.5-25Hz / second
Pan	540°
Tilt	270°
Heat management	
Cooling type	Forced ventilation with axial fans. Automatically adjust cooling-fan's speed
MAX ambient temp (Ta max)	Ta max=45°C
MIN ambient temp (Ta min)	Ta min=-20°C
MAX housing temp. (ta=25°C)	Tc = 50 ˚C
MAX housing temp. (ta=40°C)	Tc = 60°C
Menu	
Auto program	Manual program and Auto test program
Static color	White
Manual calibration	Service → calibration → function (0-255)
Factory calibration	Yes
Strobe speed	0.5-25 times/second
Random strobe	0.5-25 times/second
Control	
Control protocol	DMX512
DMX channel range	21 channel

RDM	
RDM compliance	DMX512-A
WDMX	No (optional)
ACN	No (optional)
DMX input connection	5-pin
Data input (artnet, SACN)	No
Hardware	
Interface	LCD Display
Software upload method	Software upload method XLR, firmware upload tool
Installation	
IP rating	IP65 (Use rubber power & data cover)
Orientation	Any
Housing	
Safety attachment point	Bottom
Lock	Tilt lock
Physical	
Net product weight	16.1 Kg
Machine dimensions - length	364 mm
Machine dimensions - depth	241 mm
Machine dimensions - height	517 mm
Carton size	425 x 290 x 640 mm
Gross weight	19.1 Kg
Accessories	
Included items	Manual, Power cable, safety cable
Approvals	
Approved certifications	CE and RoHS
Information	
Article number	160060

POSITIONING



POSEIDON LASER BEAM XS