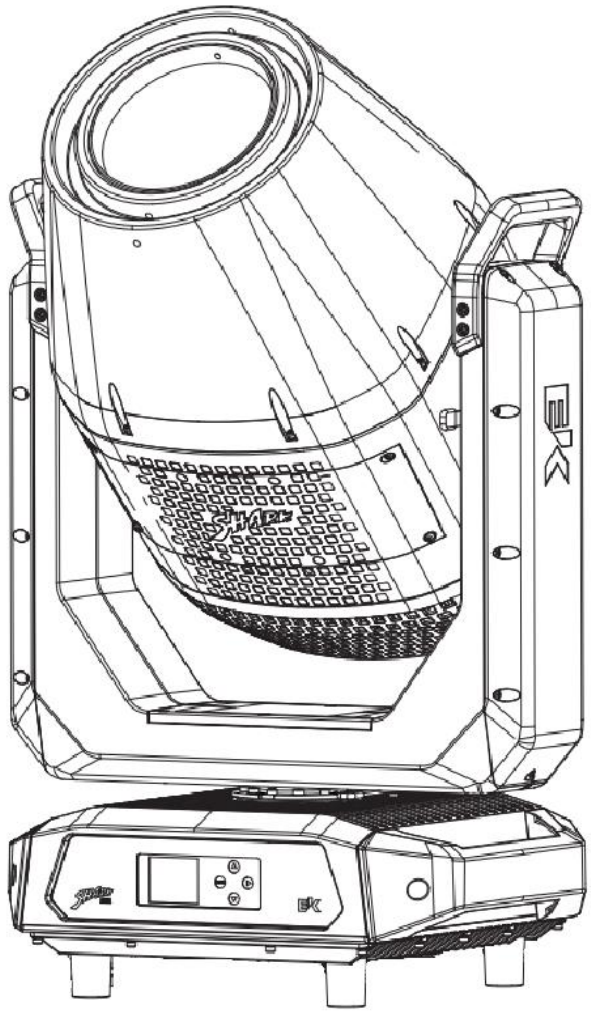
SHOWPRO

SHARK BSW (Beam Spot Wash)

MANUAL

PSHMOV110



SHARK

CONTENTS

SAFETY

WARNING! Before carrying out any operations with the unit, carefully read this instruction manual and keep it with care for future reference, it contains important information about the installation, use and maintenance of the unit.

General instructions

- The products referred to in this manual conform to the European Community Directives and are therefore marked with CE.

- The unit is supplied with hazardous network voltage (230V~). Leave servicing to skilled personnel only. Never make any modifications on the unit not described in this instruction manual, otherwise you risk an electric shock.

- Connection must be made to a power supply system fitted with efficient earthing (Class I appliance according to standard EN60598-1). It is recommended to protect the supply lines of the units from indirect contact and/or shorting by using appropriately sized residual current devices.

- The connection to the main network of electric distribution must be carried out by a qualified electrical installer. Check that the mains frequency and voltage correspond to those for which the unit is designed as given on the electrical data label.

- This unit is not for home use, only use for professional applications.

- Never use the fixture under the following conditions:
    - in places subject to vibrations or bumps;
    - in places with a temperature of over 40 ℃.

- Make certain that no flammable liquids, water or metal objects enter the fixture.

- Do not dismantle or modify the fixture.

- All work must always be carried out by qualified technical personnel. Contact the nearest sales point for an inspection or contact the manufacturer directly.

- If the unit is to be put out of operation definitively, take it to a local recycling plant for a disposal which is not harmful to the environment.

Warnings and installation precautions

- If this device is operated in any way different to the way described in this manual, it may suffer damage and the warranty becomes void. Any unauthorized operation may lead to dangers like short circuit, burns, electric shock, etc.

- Before starting any maintenance work or cleaning the fixture, cut off power from the main supply.

- Always additionally secure the fixture with a safety chain. When carrying out any work, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture is being used.

- Install the fixture in a well-ventilated place.

- Keep any flammable materials at a safe distance from the fixture.

- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.

- The lamp shall be changed if it has become damaged or thermally deformed.

- Never look directly at the light beam. Note that fast changes in lighting, e.g. flashing lights, may trigger epileptic seizures in photosensitive persons or persons with epilepsy.

- Do not touch the product’s housing when operating because it may be very hot.

INTRODUCTION

Features

• IP65-rated moving head with tour-grade construction suitable for outdoor applications

• 480W 6800K lamp with an ultra-bright output of 125000 lux @ 20m

• Extremely even spot with flawless field consistency

• Consistent brightness from centre to edge

• CMY and 1 colour wheel (15 + open)

• Dual gobo wheel (19 fixed + 8 rotating)

• 1 animation wheel

• Bi-directional 4-facet and 8-facet prisms with variable speed

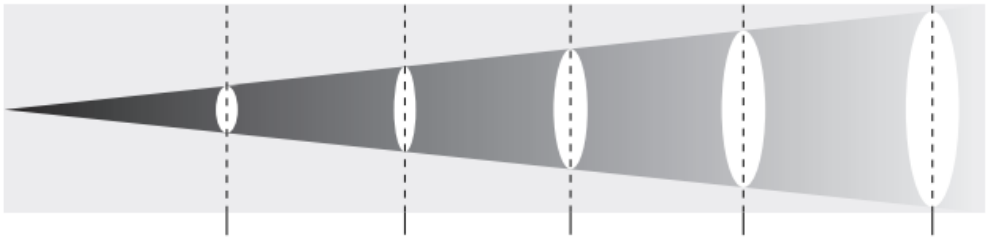
• DMX and RDM control

SPECIFICATIONS

Light Source:	Philips MSD Silver 480W LL, 6800K
Beam Angle:	Beam mode: 2°~29° Spot mode: 2.3°~41°
Output:	17000lm (41°)
Colour Mixing:	CMY & 15 filters + open
Gobos:	1 static gobo wheel (19 + open)
	1 rotating gobo wheel (8 + open)
Animation:	1 animation wheel
Prism:	4-facet and 8-facet bi-directional, indexable rotating
Frost:	10° frost
Focus:	Motorized focus
Strobe:	0~12Hz
Dimming:	0~100%
Pan Movement:	540° (16 bit)
Tilt Movement:	270° (16 bit)
Mains:	100~240 VAC, 50/60 Hz
Consumption:	643W/230V
Power Connections:	TRUECON In
Protocol:	DMX512/RDM
DMX Channels:	31CH
Data Connections:	3-pin (or 5pin) XLR In/Out for DMX
Onboard Menu:	TFT Display
Materials:	Aluminium alloy
Finish:	Matte black
IP Rating:	IP 65
Cooling:	Turbo-fan & heat pipe
Ambient Temp:	-20℃~45℃
Dimensions:	450*330*869mm
Weight:	33kg

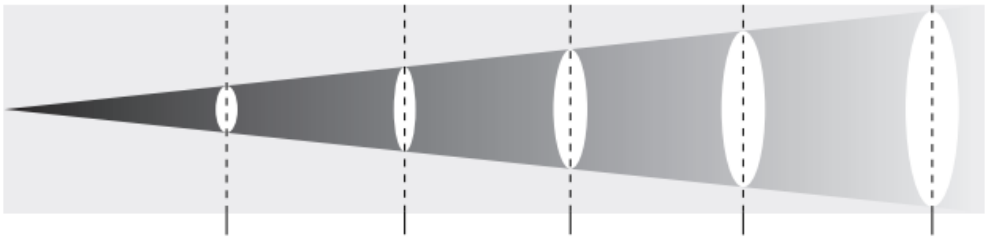
PHOTOMETRICS

Spot mode: 2.3°



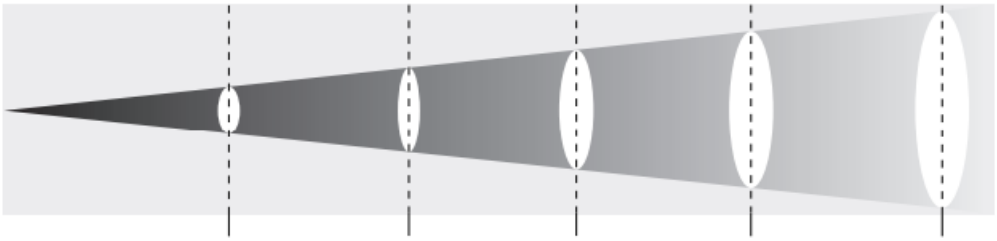
Distance(M)	10	20	30	50	100
Illuminance(Lux)	128400	32100	14266	5136	1284
Diameter(M)	0.4	0.8	1.2	2	4

Spot mode: 42°



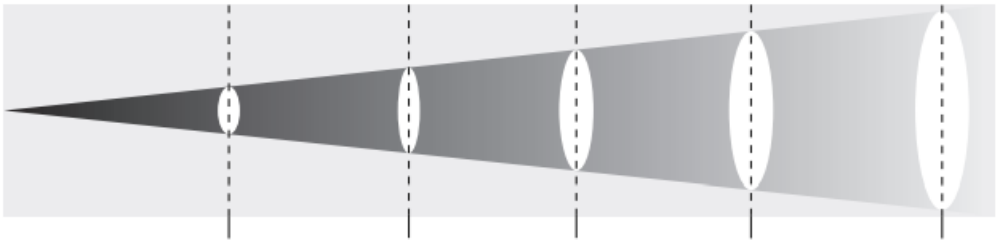
Distance (M)	1	3	5	7	10
Illuminance(Lux)	53100	5900	2124	1083	531
Diameter(M)	0.76	2.3	3.8	5.32	7.6

Beam mode: 2.1°



Distance(M)	10	20	30	50	100
Illuminance(Lux)	572000	143000	62555	23200	5720
Diameter(M)	0.38	0.75	1.16	1.88	3.75

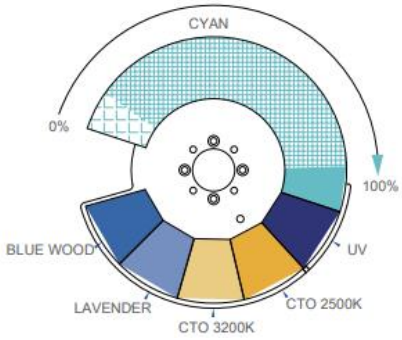
Beam mode: 29°

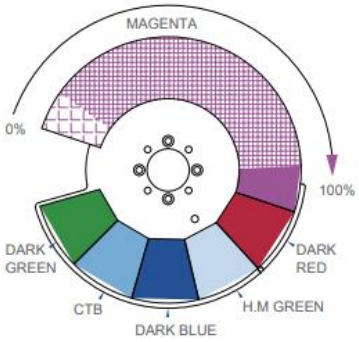


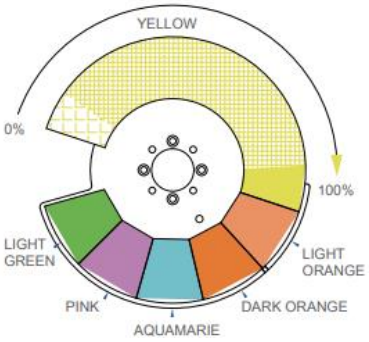
Distance(M)	1	3	5	7	10
Illuminance(Lux)	376200	41800	15048	7677	3762
Diameter(M)	0.52	1.57	2.6	3.64	5.2

COLOUR & GOBOS

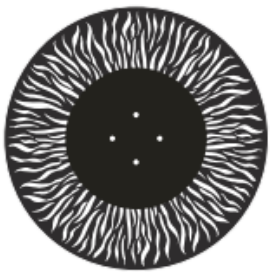
Colour





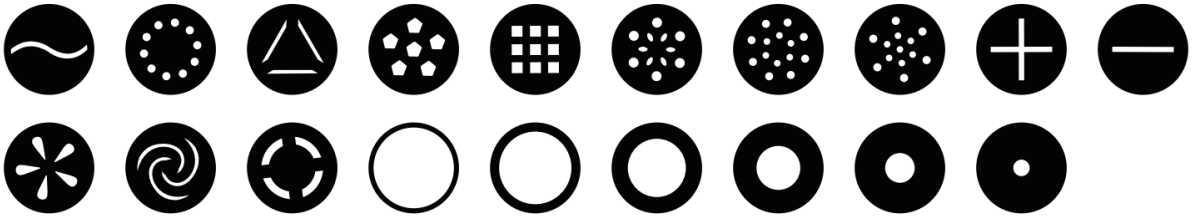


Animation

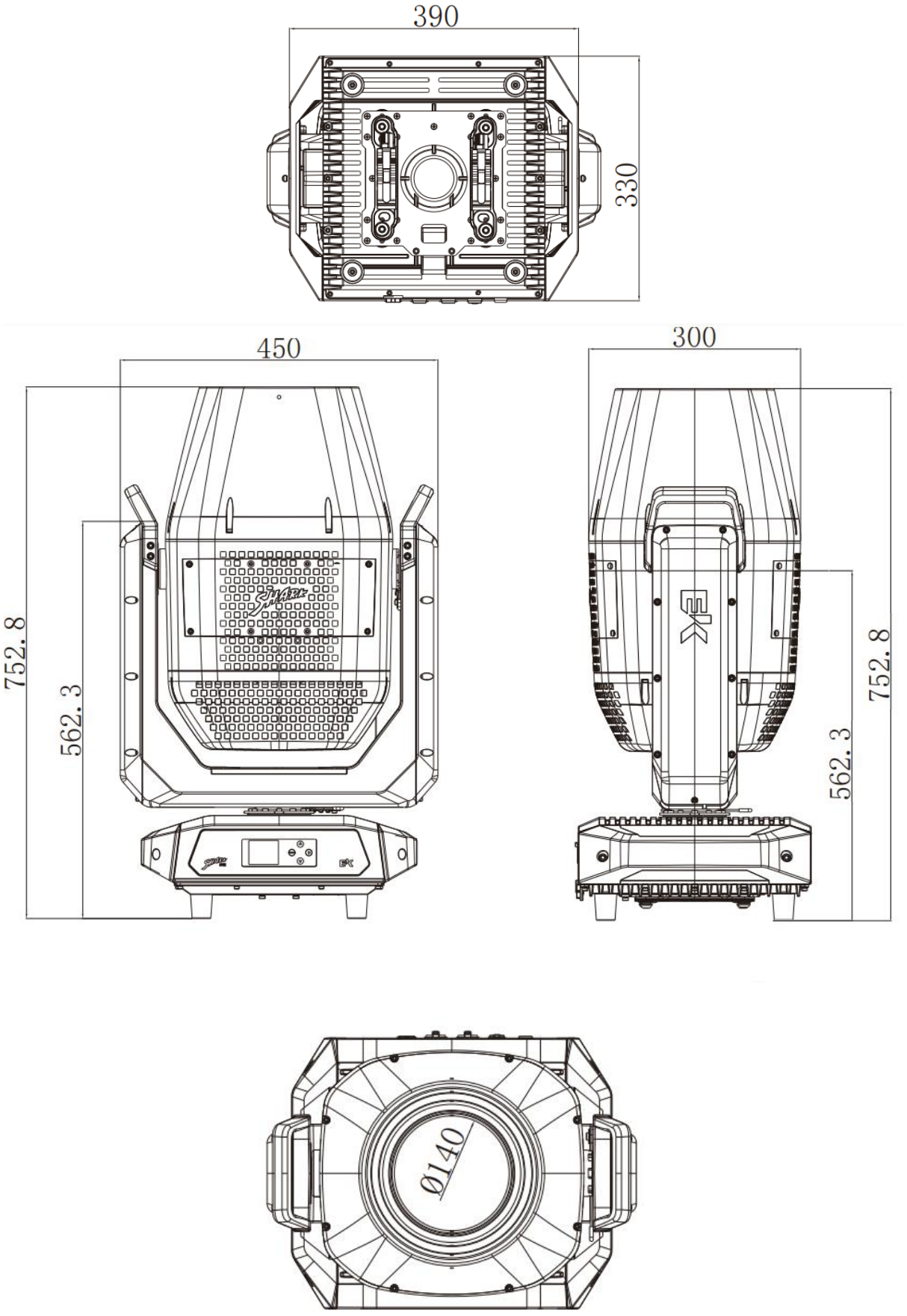


Rotating Gobos

Static Gobos

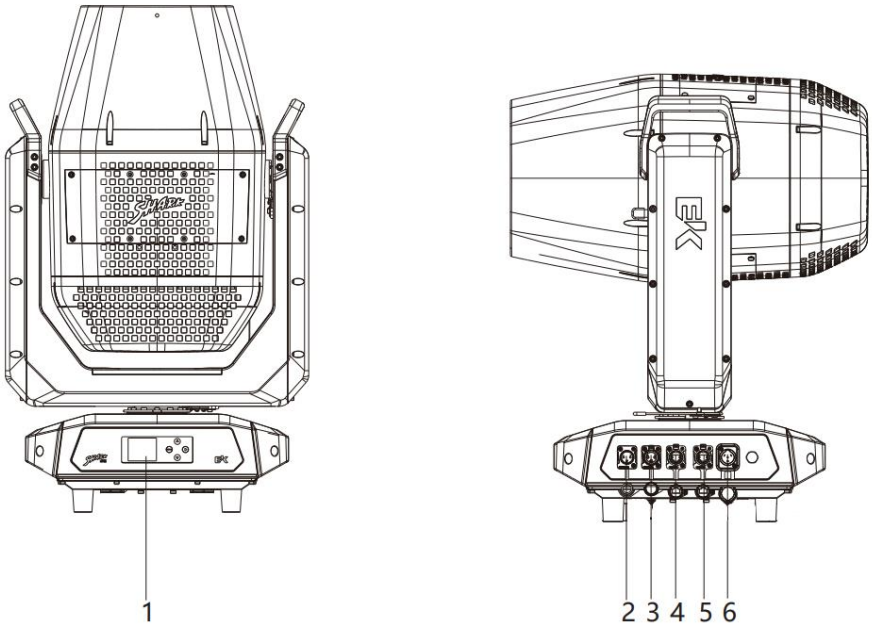


DIMENSIONS



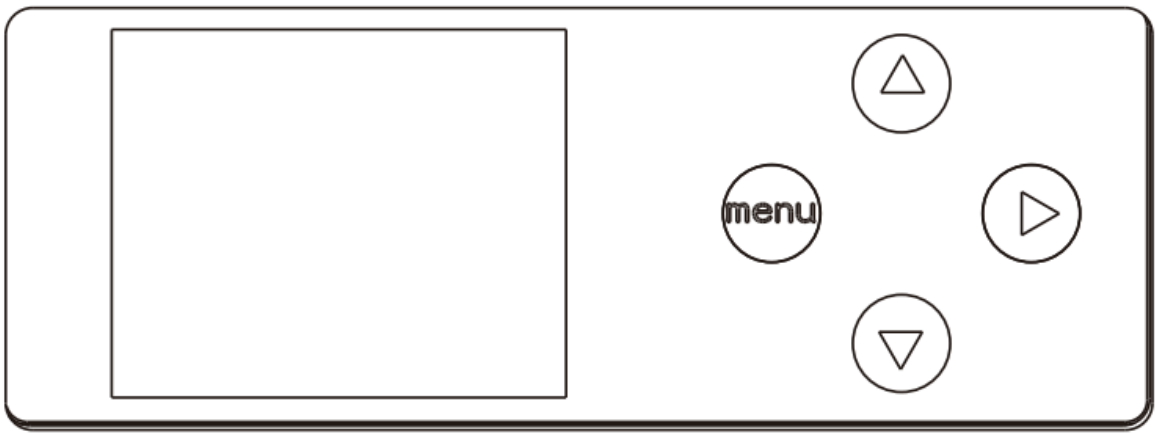
OVERVIEW

Fixture Illustration



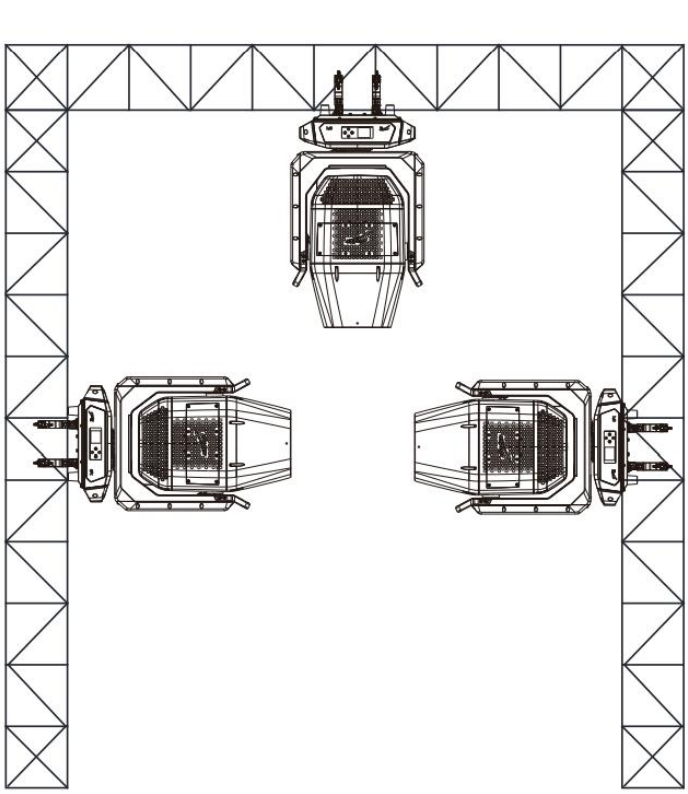
1. Control Panel
2. 3/5 Pin DMX In
3. 3/5 Pin DMX Out
4. 4/5. RJ45 In/Out
6. TrueCON In

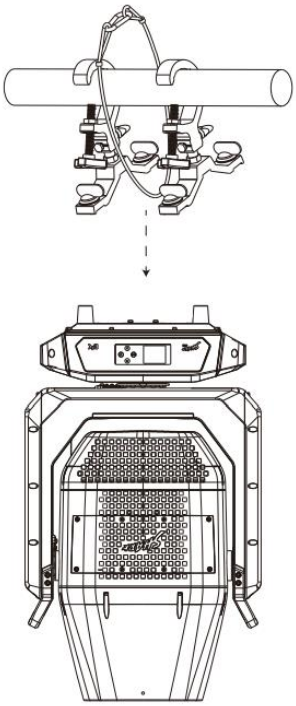
Control Panel



MENU:	Enter the Menu
UP:	Increase value or scroll up
DOWN:	Decrease value or scroll down
ENTER:	Confirm and save setting

INSTALLATION





The Shark must be set up on a solid and even surface.

By means of the brackets on the baseplate, the unit can also be mounted upside down to a cross arm. For mounting, strong, stable clamps are required.

The bolts of the brackets are placed into the openings provided in the base plate and turned clockwise until they lock.

Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating.

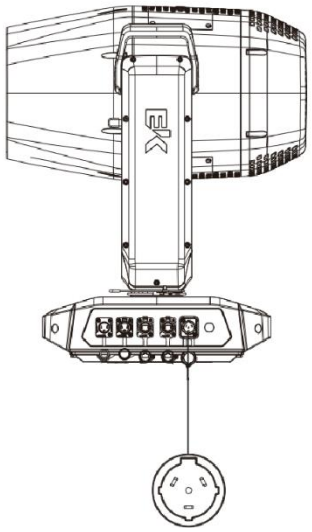
The mounting place must be of sufficient stability and be able to support a weight of 10 times the unit's weight.

When carrying out any installation, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture is being used.

Always additionally secure the fixture with a safety chain. For this purpose, fasten the safety chain in a suitable position so that the maximum fall of the fixture will be 20 cm.

CONNECTION

Power Connection



Using TrueCon In.

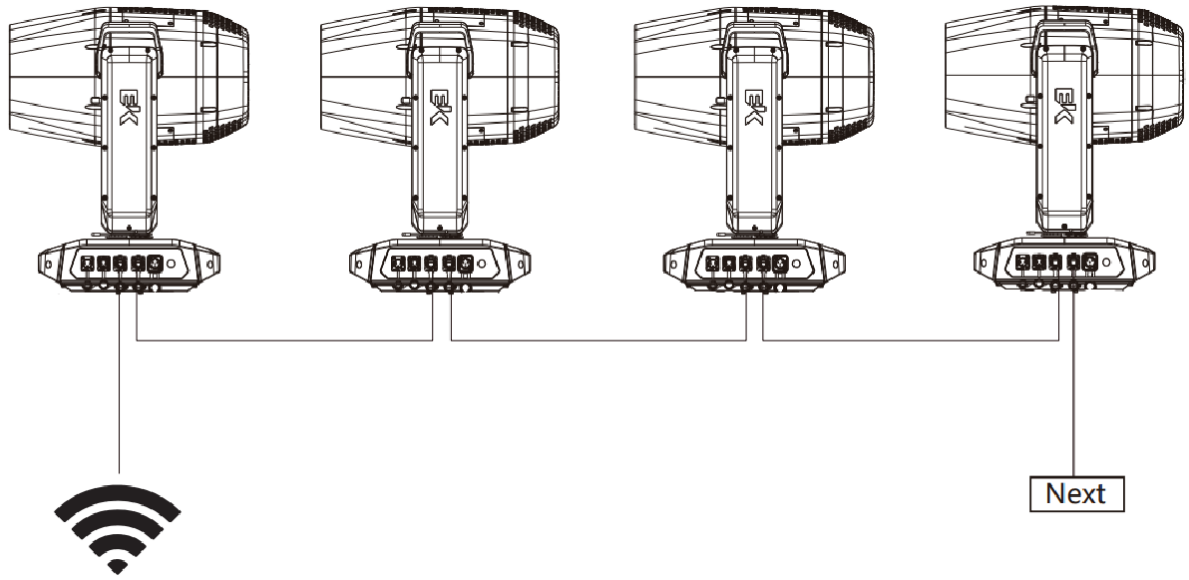
Attention: due to power rating, one power cable can connect 1 unit maximum

Do not connect more than 1 units in series with one power cable.

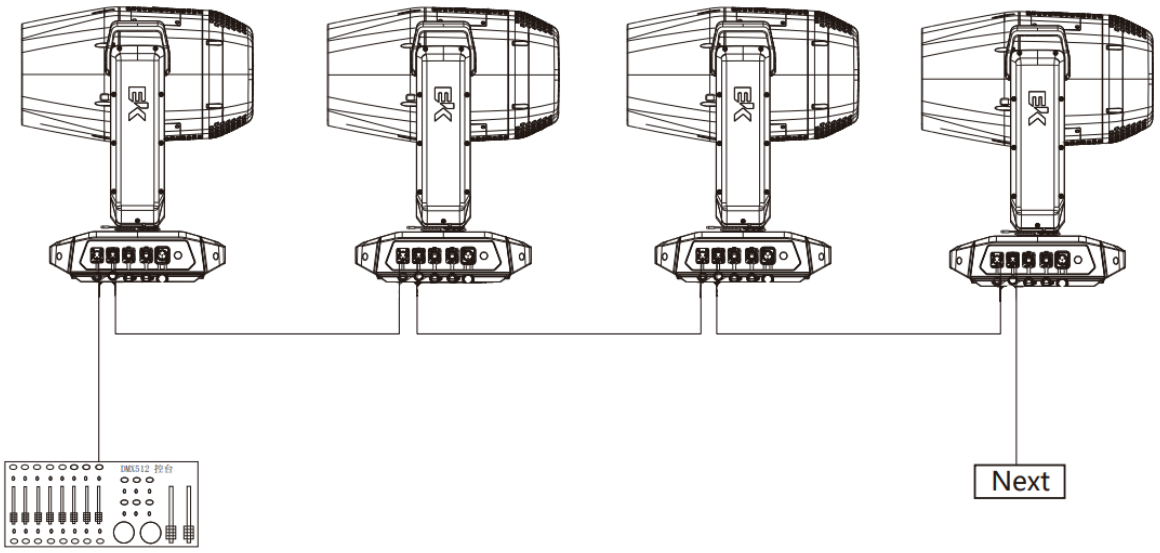
Do not use with damaged power cable.

Power off the fixture when not in use.

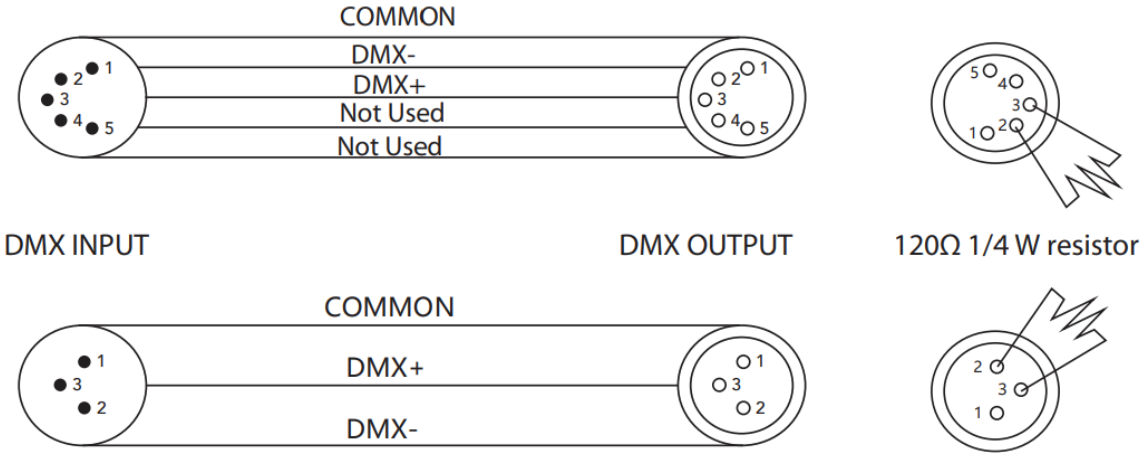
Ethernet Connection



DMX Connection



- Depending on the length of the DMX cable run, or other factors, it may be advisable to install a terminator at the last fixture in the run.
- The illustration below shows the correct placement of a 120Ω 0.25W resistor in a terminator, as well as the standard DMX signal pin connections



Example of DMX Addressing

The below table shows an example of starting addresses for four fixtures assuming a first fixture with starting address of 001.

MODE	ALLOCATION	ADDRESS 1st Fixture	ADDRESS 2nd Fixture	ADDRESS 3rd Fixture	ADDRESS 4th Fixture
31CH	001 – 031	001	032	063	094

Follow above method for subsequent fixtures, calculating addresses as indicated.

MENU

NO.	Main Menu	Menu Level 1	Menu Level 2	Menu Level 3		Default
1	SETUP	DMX Address	1 – 512			1
		Ethernet Interface	Custom IP Address	2.x.x.x		
			Custom IP Mask	255.0.0.0		
			Universe	000 – 255		0
			Start Channel	1 – 512		1
			Ethernet to DMX	No		No
				Yes		
2	OPTION	Lamp DMX	On			On
			Off			
		Safety Black Out	On			On
			Off			
		Pan/Tilt	Invert Pan	Off		Off
				On		
			Invert Tilt	Off		Off
				On		
			Swap Pan/Tilt	Off		Off
				On		
			Encoder Pan/Tilt	Off		On
				On		
			P/T Homing Mode	Standard		Standard
				Sequenced		
			Pan Home Def Pos	0°		270°
				90°		
				180°		
				270°		
			Tilt Home Def Pos	0%		50%
				12.5%		
				25%		
				50%		
				75%		
				87.5%		
				100%		
		Shutter	Shutter On Error	On		Off
				Off		
		Display	Off			Off
			On			
		Setting	Default Preset	Reset to Default	Are you sure? Yes/No	
				Go Back		
			User Preset 1	Load Preset 1	Are you sure? Yes/No	
				Save to Preset 1		
			User Preset 2	Load Preset 2	Are you sure? Yes/No	
				Save to Preset 2		
			User Preset 3	Load Preset 3	Are you sure? Yes/No	
				Save to Preset 3		
3	INFORMATION	System Errors				
		Fixture Hours	Total Hours			
			Partial Hours	Reset		
				Go Back		
		Lamp Hours	Total Hours			
			Partial Hours	Reset		
				Go Back		
		Lamp Strikes	Total Strikes			
			Partial Strikes	Reset		
				Go Back		
		System Version	DISP NET CTR1 – XY CTR2 – MOTOR CTR3 – MOTOR CTR4 – MOTOR CTR5 – MOTOR			
		DMX Monitor				
		Network Parameters	IP Address	2.x.x.x		
			IP Mask	255.0.0.0		
			MAC Address	54–10–EC–5B–B2–32		
		UID	030F046******			

NO.	Main Menu	Menu Level 1	Menu Level 2	Menu Level 3		Default
4	MANUAL CONTROL	Lamp	On			Off
			Off			
		Reset	No			
			Yes			
		Channel	1.Cyan	0 – 255		
			2.Magenta	0 – 255		
			3.Yellow	0 – 255		
			4.Colour 1	0 – 255		
			5.Colour 2	0 – 255		
			6.Colour 3	0 – 255		
			7.Strobe	0 – 255		
			8.Dimmer	0 – 255		
			9.Dimmer Fine	0 – 255		
			10.Fixed Gobo	0 – 255		
			11.Effect	0 – 255		
			12.REffect	0 – 255		
			13.Rotating Gobo	0 – 255		
			14.Gobo Rotation	0 – 255		
			15.Gobo R Fine	0 – 255		
			16.4 Prism Insertion	0 – 255		
			17.4 Prism Rotation	0 – 255		
			18.8 Prism Insertion	0 – 255		
			19.8 Prism Rotaton	0 – 255		
			20.Frost	0 – 255		
			21.Zoom	0 – 255		
			22.Focus	0 – 255		
			23.Focus Fine	0 – 255		
			24.Beam Mode	0 – 255		
			25.Pan	0 – 255		
			26.Pan Fine	0 – 255		
			27.Tilt	0 – 255		
			28.Tilt Fine	0 – 255		
			29.Reset	0 – 255		
			30.Function	0 – 255		
			31.Lamp Control	0 – 255		
5	TEST	Pan/Tilt				
		Colour				
		Beam				
		Gobo				
		All				
6	ADVANCED	Access Code (Default: 1234)	Calibration	Pan Offset	0 – 255	
				Tilt Offset	0 – 255	
				Dimmer Offset	0 – 255	
				Cyan Offset	0 – 255	
				Magenta Offset	0 – 255	
				Yellow Offset	0 – 255	
				Gobo1 Offset	0 – 255	
				RGobo1 Offset	0 – 255	
				Gobo2 Offset	0 – 255	
				4 Prism Offset	0 – 255	
				4 RPrism Offset	0 – 255	
				8 Prism Offset	0 – 255	
				8 RPrism Offset	0 – 255	
				Effect Offset	0 – 255	
				Focus Offset	0 – 255	
				Zoom Offset	0 – 255	
				Frost Offset	0 – 255	
				Balance Offset	0 – 255	
			Menu Locking	Unlock Code xxxx		1234

DMX CHART

31CH	Function	Value	Setting	Notes
1	Cyan	0 – 255	Cyan 0% - 100%	Valid when Colour 1 = 0
2	Magenta	0 – 255	Magenta 0% - 100%	Valid when Colour 2 = 0
3	Yellow	0 – 255	Yellow 0% - 100%	Valid when Colour 3 = 0
4	Colour 1	000 – 023	Open	
		024 – 046	Open + Colour 1	
		047 – 069	Colour 1	
		070 – 092	Colour 1 + Colour 2	
		093 – 115	Colour 2	
		116 – 139	Colour 2 + Colour 3	
		140 – 162	Colour 3	
		163 – 185	Colour 3 + Colour 4	
		186 – 208	Colour 4	
		209 – 231	Colour 4 + Colour 5	
		232 – 255	Colour 5	
5	Colour 2	000 – 023	Open	
		024 – 046	Open + Colour 1	
		047 – 069	Colour 1	
		070 – 092	Colour 1 + Colour 2	
		093 – 115	Colour 2	
		116 – 139	Colour 2 + Colour 3	
		140 – 162	Colour 3	
		163 – 185	Colour 3 + Colour 4	
		186 – 208	Colour 4	
		209 – 231	Colour 4 + Colour 5	
		232 – 255	Colour 5	
6	Colour 3	000 – 023	Open	
		024 – 046	Open + Colour 1	
		047 – 069	Colour 1	
		070 – 092	Colour 1 + Colour 2	
		093 – 115	Colour 2	
		116 – 139	Colour 2 + Colour 3	
		140 – 162	Colour 3	
		163 – 185	Colour 3 + Colour 4	
		186 – 208	Colour 4	
		209 – 231	Colour 4 + Colour 5	
		232 – 255	Colour 5	
7	Strobe	000 – 003	Closed	
		004 – 103	Slow to Fast Strobe	
		104 – 107	Open	
		108 – 207	Pulse Slow to Fast	
		208 – 212	Open	
		213 – 251	Random Strobe	
		252 – 255	Open	
8	Dimmer	000 – 255	Dimmer 0% - 100%	
9	Dimmer Fine	000 – 255	Dimmer Fine	
10	Fixed Gobo	000 – 003	Open	
		004 – 007	Gobo 1	
		008 – 010	Gobo 2	
		011 – 014	Gobo 3	
		015 – 017	Gobo 4	
		018 – 021	Gobo 5	
		022 – 024	Gobo 6	
		025 – 028	Gobo 7	
		029 – 031	Gobo 8	
		032 – 035	Gobo 9	
		036 – 039	Gobo 10	
		040 – 042	Gobo 11	
		043 – 046	Gobo 12	
		047 – 049	Gobo 13	
		050 – 053	Gobo 14	
		054 – 056	Gobo 15	
		057 – 060	Gobo 16	
		061 – 063	Gobo 17	
		064 – 067	Gobo 18	
		068 – 071	Gobo 19	
		072 – 113	Fast to Slow (Reverse Spin)	
		114 – 117	Stop (Stop Rotation)	
		118 – 159	Slow to Fast (Forward Spin)	
		160 – 165	Gobo 1 Shake Slow to Fast	
		166 – 170	Gobo 2 Shake Slow to Fast	
		171 – 175	Gobo 3 Shake Slow to Fast	
		176 – 180	Gobo 4 Shake Slow to Fast	
		181 – 185	Gobo 5 Shake Slow to Fast	
		186 – 190	Gobo 6 Shake Slow to Fast	
		191 – 195	Gobo 7 Shake Slow to Fast	

31CH	Function	Value	Setting	Notes
10	Fixed Gobo	196 – 200	Gobo 8 Shake Slow to Fast	
		201 – 205	Gobo 9 Shake Slow to Fast	
		206 – 210	Gobo 10 Shake Slow to Fast	
		211 – 215	Gobo 11 Shake Slow to Fast	
		216 – 220	Gobo 12 Shake Slow to Fast	
		221 – 225	Gobo 13 Shake Slow to Fast	
		226 – 230	Gobo 14 Shake Slow to Fast	
		231 – 235	Gobo 15 Shake Slow to Fast	
		236 – 240	Gobo 16 Shake Slow to Fast	
		241 – 245	Gobo 17 Shake Slow to Fast	
		246 – 250	Gobo 18 Shake Slow to Fast	
		251 – 255	Gobo 19 Shake Slow to Fast	
11	Effect	000 – 255	Insert Effect Wheel (Linear)	
12	R Effect	000 – 003	Stop	
		004 – 127	Slow to Fast (Forward Spin)	
		128 – 132	Stop	
		133 – 255	Fast to Slow (Reverse Spin)	
13	Rotating Gobo	000 – 007	Open	
		008 – 015	Gobo 1	
		016 – 023	Gobo 2	
		024 – 031	Gobo 3	
		032 – 039	Gobo 4	
		040 – 047	Gobo 5	
		048 – 055	Gobo 6	
		056 – 063	Gobo 7	
		064 – 071	Gobo 8	
		072 – 113	Fast to Slow (Reverse Spin)	
		114 – 117	Stop (Stop Rotation)	
		118 – 159	Slow to Fast (Forward Spin)	
		160 – 171	Gobo 1 Shake Slow to Fast	
		172 – 183	Gobo 2 Shake Slow to Fast	
		184 – 195	Gobo 3 Shake Slow to Fast	
		196 – 207	Gobo 4 Shake Slow to Fast	
		208 – 219	Gobo 5 Shake Slow to Fast	
		220 – 231	Gobo 6 Shake Slow to Fast	
		232 – 243	Gobo 7 Shake Slow to Fast	
		244 – 255	Gobo 8 Shake Slow to Fast	
14	Gobo Rotation	000 – 127	0° - 540° positioning	
		128 – 190	Fast to Slow (Forward Spin)	
		191 – 192	Stop	
		193 – 255	Slow to Fast (Reverse Spin)	
15	Gobo Rotation Fine	000 – 255	Gobo Rotation Fine	
16	4 Prism Insertion	000 – 127	4 Prism Out	
		128 – 255	4 Prism Inserted	
17	4 Prism Rotation	000 – 127	0° - 540° positioning	
		128 – 190	Fast to Slow (Forward Spin)	
		191 – 192	Stop	
		193 – 255	Slow to Fast (Reverse Spin)	
18	8 Prism Insertion	000 – 127	4 Prism Out	
		128 – 255	4 Prism Inserted	
19	8 Prism Rotation	000 – 127	0° - 540° positioning	
		128 – 190	Fast to Slow (Forward Spin)	
		191 – 192	Stop	
		193 – 255	Slow to Fast (Reverse Spin)	
20	Frost	000 – 255	Insert Frost (Linear)	
21	Zoom	000 – 255	Wide to Narrow beam	
22	Focus	000 – 255	Near to Far	
23	Focus Fine	000 – 255	Focus Fine	
24	Beam Mode	000 – 127	Spot Mode	
		128 – 255	Beam Mode	
25	Pan	000 – 255	0° - 540°	
26	Pan Fine	000 – 255	Pan Fine	
27	Tilt	000 – 255	0° - 270°	
28	Tilt Fine	000 – 255	Tilt Fine	
29	Function	000 – 110	No Function	
		111 – 120	Pan/Tilt Slow Speed (Hold 3s)	
		121 – 130	Pan/Tilt Medium Speed (Hold 3s)	
		131 – 140	Pan/Tilt Fast Speed (Hold 3s)	
		141 – 255	No Function	
30	Reset	000 – 025	No Function	
		026 – 076	Effects Reset (Hold 5s)	
		077 – 127	Pan/Tilt Reset (Hold 5s)	
		128 – 255	Complete Reset (Hold 5s)	
31	Lamp Control	000 – 025	No Function	
		000 – 100	Lamp Off (Hold 3s)	
		101 – 255	Lamp On (Hold 3s)	

MAINTENANCE

Maintenance and Cleaning the Unit

- Make sure there are no persons standing below the unit when taking down/setting up.

- Switch off the unit, unplug the main cable and wait till the unit has cooled down.

- All screws used for installing the device and any of its parts should be tightly fastened and should not be corroded.

- Housings, fixings and installation spots (celling, trusses, suspensions) should be totally free from any deformation.

- The main cables must be in impeccable condition and should be replaced immediately when even a small problem is detected.

- It is recommended to clean the front at regular intervals, from impurities caused by dust, smoke, or other particles to ensure that the light operates at maximum brightness. For cleaning, disconnect the main plug from the socket. Use a soft, clean cloth moistened with a mild detergent. Then carefully wipe the parts dry. For cleaning other housing parts use only a soft, clean cloth. Never use a liquid, it might penetrate the unit and cause damage to it.

Fuse Replacement

1. Disconnect this product from the power outlet.
2. Using a screwdriver, unscrew the fuse holder cap from the housing.
3. Remove the blown fuse and replace with a good fuse of the same type and rating (250V/T10A).
4. Screw the fuse holder cap back in place and reconnect power.

TROUBLESHOOTING

Problem	Possible Causes	Checks and Remedies
Fixture does not light up	- No mains supply - Dimmer fader set to 0 - Faulty Lamp	- Check the power supply voltage - Increase value of the dimmer channels - Replace the Lamp
General low light intensity	- Dirty lens assembly - Misaligned lens assembly	- Clean the fixture regularly - Install lens assemble properly
Fixture does not power up	- No power - Loose of damaged power cord - Faulty internal power supply	- Check for power on power outlet - Check power cord - Replace internal power supply

Contact an authorized service centre in case of technical problems, issues not reported in the above table, or problems that cannot be resolved by the procedure given in the table.