

H360

USER MANUAL

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MAINTENANCE

MAINTENANCE AND CLEANING THE UNIT

- Make sure the area below the installation place is free from unwanted person during setup.
- 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,fixations and installation spots (ceiling,trusses,suspensions) should be totally free from any deformation.
- The main cables must be in impeccable condition and should be replaced immediately even when 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 is radiated 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.
- 4.Screw the fuse holder cap back in place and reconnect power.



TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Fixture does not light up	<ul style="list-style-type: none"> • No mains supply • Dimmer fader set to 0 • Faulty LED • Faulty LED board 	<ul style="list-style-type: none"> • Check the power supply voltage • Increase the value of the dimmer channels • Replace the LED board • Replace the LED board
General low light intensity	<ul style="list-style-type: none"> • Dirty lens assembly • Misaligned lens assembly 	<ul style="list-style-type: none"> • Clean the fixture regularly • Install lens assembly properly
Fixture does not power up	<ul style="list-style-type: none"> • No power • Loose or damaged power cord • Faulty internal power supply 	<ul style="list-style-type: none"> • Check for power on power outlet • Check power cord • Replace internal power supply

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

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,user and maintenance of the unit.



General instruction

- 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 serving to skilled personnel only. Never make any modifications on the unit not described in this instruction manual,otherwise you will risk an electric shock.
- Connection must be made to power supply system fitted with efficient earthing (Class I appliance according to standard EN60598-1).It is moreover,recommended to protect the supply lines of the units from indirect contact and/or shorting to earth 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 main 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 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 °C.
- Make certain that no inflammable 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 will be operated in any way different to the one described in this manual,it may suffer damage and the guarantee becomes void.Furthermore,any 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 the safety rope.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's being used.
- Install the fixture in a well ventilated place.
- Keep any inflammable 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 (LED) shall be changed if it has become damaged or thermally deformed.
- Never look directly at the light beam.Please note that fast changes in lighting,e.g. flashing light,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

- 360W CW LED
- 25500Lux @ 10m
- Compact fixture with high efficient optical system
- Color wheel, dual gobo wheel
- Bi-directional 8/24-facet prism with variable speed
- Best for concert, bar, events, road show etc.
- DMX control

SPECIFICATIONS

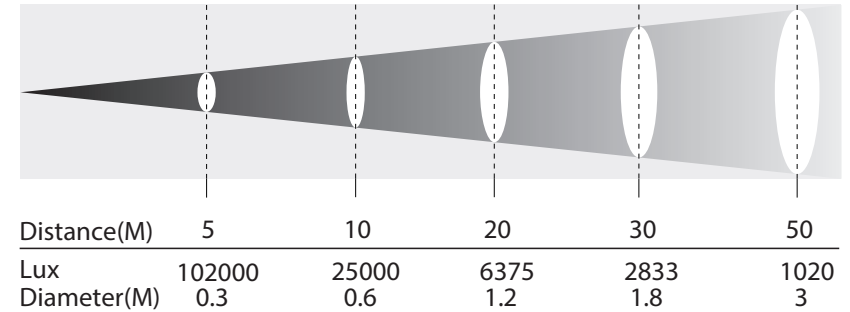
Light Source:	360W CW LED
Color Temperature:	7200K±300K
Output(lm):	narrow angle: 5050Lm wide angle: 13500Lm
Output(lux)	102000Lux@5m; 6500Lux@3m
Lifespan:	20000hrs
Beam Angle:	3.4°~37.7°
Pan Movement:	540°
Tilt Movement:	270°
Color Mixing:	CW + 9 filters + open
Fixed Gobos:	12+open
Rotating Gobos:	7+open
Focus:	Motorized focus
Frost:	5° frost
Strobe:	0~30Hz
Dimmer:	0~100% linear frost
Prism:	Bi-directional 8-facet prism and 24-facet prism with variable speed
Protocol:	DMX512 / RDM
DMX Channels:	21ch
Display:	TFT display
Consumption:	420W
IP Rating:	IP20
Ambient:	0℃~45℃
Cooling:	Heat pipe and low noise fan
Dimension:	355 x 257x 643 mm
Weight:	22KG

21	Device Setting	000-190	TBD
		201-205	Complete Reset(Hold 5S)
		206-210	Pan/Tilt Reset (Hold 5S)
		211-215	Head Reset (Hold 5S)
		216-255	TBD

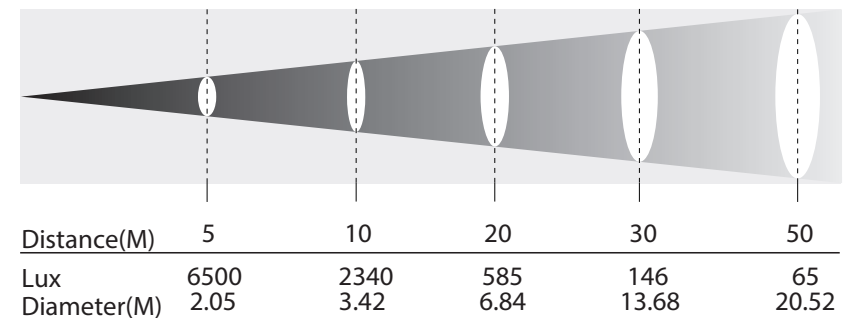
11	Fix Gobo	063-067	Gobo12
		068-072	Gobo1 Shaking Slow to Fast
		073-077	Gobo2 Shaking Slow to Fast
		078-082	Gobo3 Shaking Slow to Fast
		083-087	Gobo4 Shaking Slow to Fast
		088-092	Gobo5 Shaking Slow to Fast
		093-097	Gobo6 Shaking Slow to Fast
		098-102	Gobo7 Shaking Slow to Fast
		103-107	Gobo8 Shaking Slow to Fast
		108-112	Gobo9 Shaking Slow to Fast
		113-117	Gobo10 Shaking Slow to Fast
		118-122	Gobo11 Shaking Slow to Fast
		123-127	Gobo12 Shaking Slow to Fast
		128-190	Fast to Slow(Revers Spin)
		191-192	Stop (Stop Rotation)
		193-255	Slow to Fast(Forward Spin)
12	8 Prism Insertion	000-127	8 Prism Out
		128-255	8 Prism into the light beam
13	8 Prism Rotation	000-127	0 - 540 Position
		128-190	Fast to Slow(Forward Spin)
		191-192	Stop (Stop Rotation)
		193-255	Slow to Fast(Revers Spin)
14	24 Prism Insertion	000-127	24 Prism Out
		128-255	24 Prism into the light beam
15	24 Prism Rotation	000-127	0 - 540 Position
		128-190	Fast to Slow(Forward Spin)
		191-192	Stop (Stop Rotation)
		193-255	Slow to Fast(Revers Spin)
16	Frost	000-127	Frost Out
		128-255	Frost into the light beam
17	Focus	000-255	Distant-Near
18	Focus Fine	000-255	Focus Fine
19	Zoom	000-255	Distant-Near
20	Zoom Fine	000-255	Focus Fine

PHOTOMETRICS

Beam Mode 3.4°



Beam Mode 37.7°

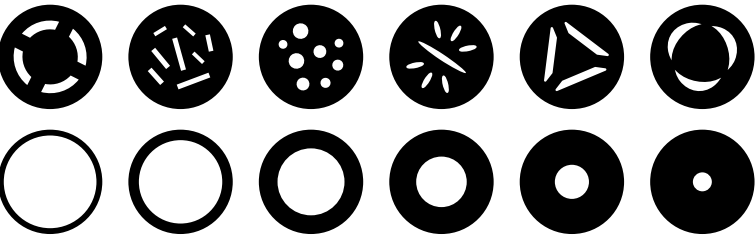


COLORS & GOBOS

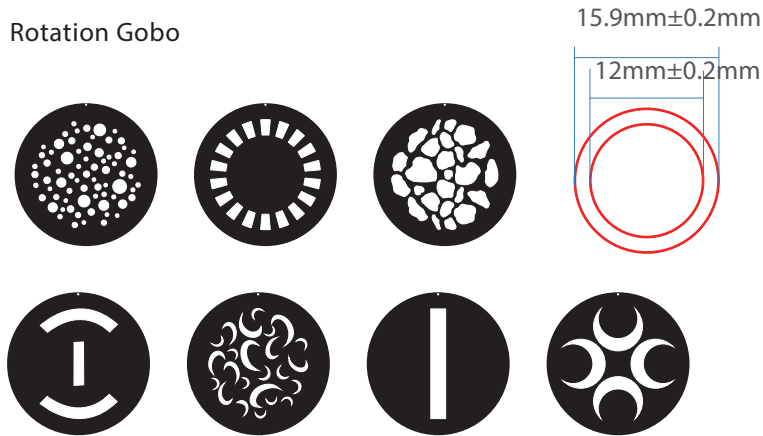
Color Wheel



Fixed Gobo



Rotation Gobo

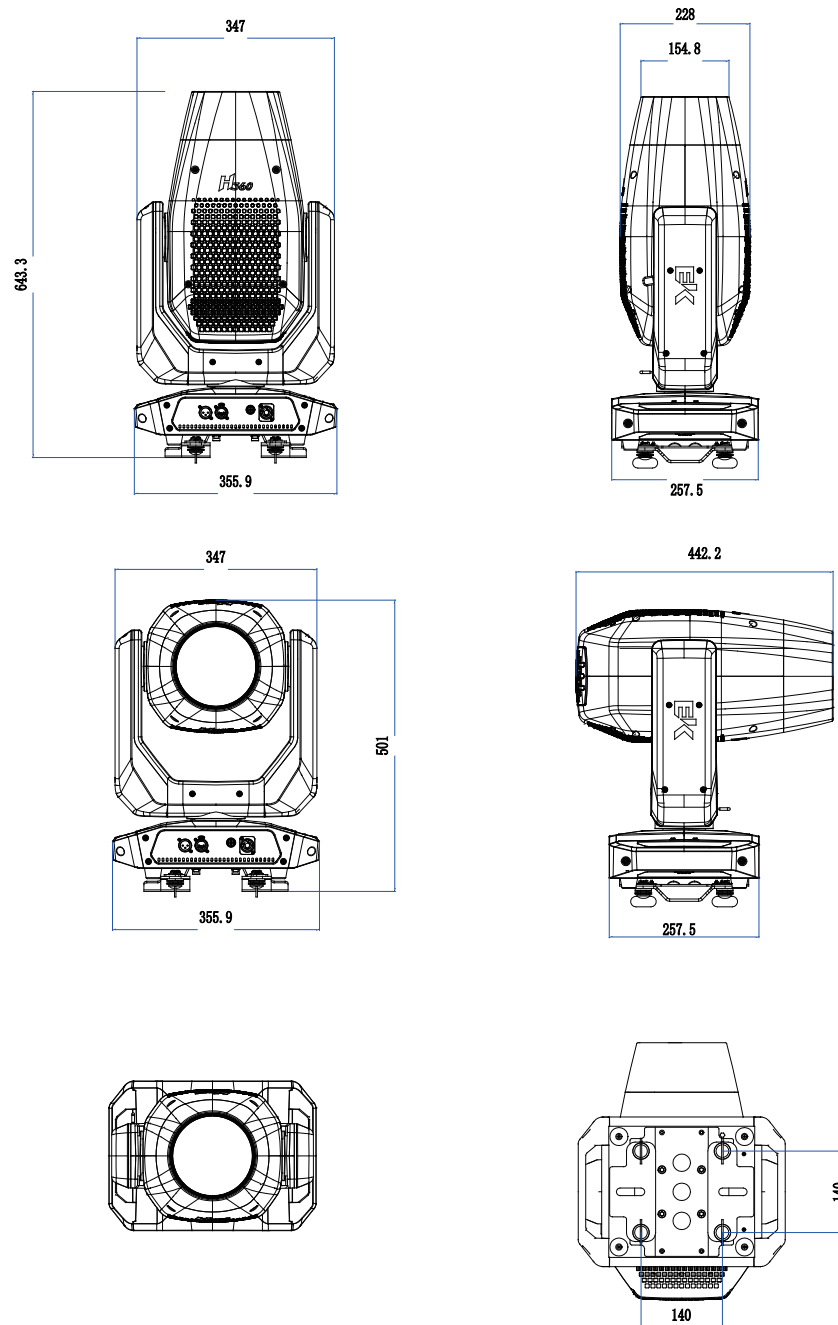


8	Color	191-192	Stop (Stop Rotation)
		193-255	Slow to Fast(Revers Spin)
9	Gobo Wheel	000-008	White
		009-017	Gobo1
		018-026	Gobo2
		027-035	Gobo3
		036-044	Gobo4
		045-053	Gobo5
		054-062	Gobo6
		063-071	Gobo7
		072-079	Gobo1 Shaking Slow to Fast
		080-087	Gobo2 Shaking Slow to Fast
		088-095	Gobo3 Shaking Slow to Fast
		096-103	Gobo4 Shaking Slow to Fast
		104-111	Gobo5 Shaking Slow to Fast
		112-119	Gobo6 Shaking Slow to Fast
		120-127	Gobo7 Shaking Slow to Fast
		128-190	Fast to Slow(Revers Spin)
10	Gobo Rotation	191-192	Stop (Stop Rotation)
		193-255	Slow to Fast(Forward Spin)
		000-191	Positioning from 0-540degrees(Indexing)
		192-221	Slowest to fastest(Forward Spin)
11	Fix Gobo	222-225	Stop
		226-255	Fastest to Slowest(Reverse Spin)
		000-007	White
		008-012	Gobo1
		013-017	Gobo2
		018-022	Gobo3
		023-027	Gobo4
		028-032	Gobo5
		033-037	Gobo6
		038-042	Gobo7
		043-047	Gobo8
		048-052	Gobo9
		053-057	Gobo10
		058-062	Gobo11

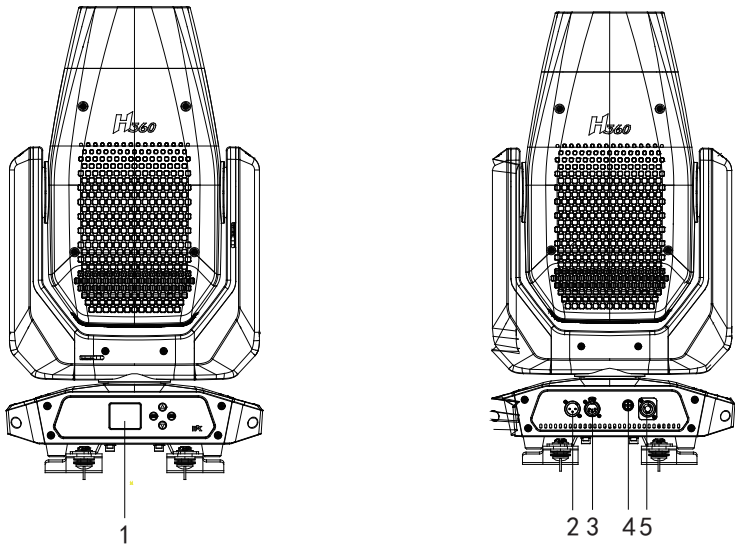
DMX Chart

H360 DMX Chart			
21CH	Function	Value	Percent/Setting
1	Pan	000-255	Pan Coarse
2	Pan Fine	000-255	Pan Fine
3	Tilt	000-255	Tilt Coarse
4	Tilt Fine	000-255	Tilt Fine
5	Shutter	000-010	No function (shutter close)
		011-082	Shutter effect slow to fast
		083-093	No function (shutter open)
		094-163	Pulse-effect in sequences
		164-174	No function (shutter open)
		175-243	Random Shutter effect slow to fast
		244-255	No function (shutter open)
6	Dimmer	000-255	Dimmer 0%-100%
7	Dimmer Fine	000-255	Dimmer Fine
8	Color	000-004	Open
		005-010	Open+Color1
		011-017	Color 1
		018-023	Color 1 + Color 2
		024-030	Color 2
		031-036	Color 2 + Color 3
		037-043	Color 3
		044-049	Color 3 + Color 4
		050-056	Color 4
		057-062	Color 4 + Color 5
		063-069	Color 5
		070-075	Color 5 + Color 6
		076-082	Color 6
		083-088	Color 6 + Color 7
		089-095	Color 7
		096-101	Color 7 + Color 8
		102-108	Color 8
		109-114	Color 8 + Color 9
		115-121	Color 9
		122-127	Color 9 + OPEN
		128-190	Fast to Slow(Forward Spin)

DIMENSION



OVERVIEW



- 1. Control Panel
- 2. DMX In
- 3. DMX Out
- 4. Fuse
- 5. Power In

MODE	ILLUSTRATION	DESCRIPTION	EFFECT
MENU	MENU OPTION	ENTER MENU	MENU OPERATION
UP	UP	SCROLL UP	INCREASE NUMERIC VALUE
DOWN	DOWN	SCROLL DOWN	DECREASE NUMERIC VALUE
ENTER	CONFIRM	CONFIRM	SAVE SETTING

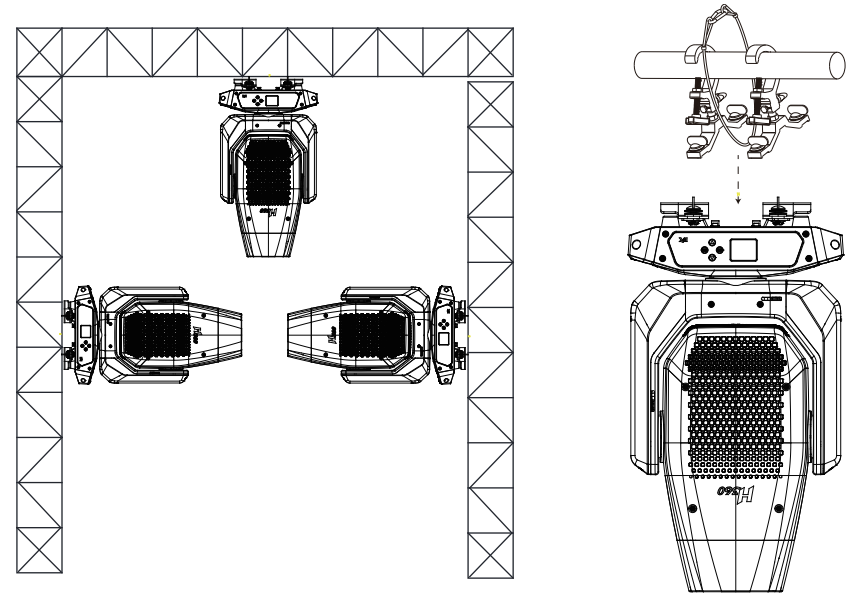
Menu

4	TEST	Channel	1.Pan	000-255			
			2.Pan Fine	000-255			
			3.Tilt	000-255			
			4.Tilt Fine	000-255			
			5.Strobe	000-255			
			6.Dimmer	000-255			
			7.Dimmer Fine	000-255			
			8.Color	000-255			
			9.Gobo wheel	000-255			
			10.Gobo Rot	000-255			
			11.Fix Gobol	000-255			
			12.8Prism	000-255			
			13.8RPrism	000-255			
			14.24Prism	000-255			
			15.24RPrism	000-255			
			16.Frost	000-255			
			17.Focus	000-255			
			18.Focus Fine	000-255			
			19.Zoom	000-255			
			20.Zoom Fine	000-255			
			21.Beam Mode	000-255			
			22.Reset	000-255			
5	ADVANCED /	AUTO	Pan/Tilt				
			Colour				
			Beam				
			Gobo				
			All				
		Calibration	Pan Offset	000-255			
			Tilt Offset	000-255			
			Color Offset	000-255			
			Gobo Offset	000-255			
			RGoboOffset	000-255			
			Gobo2 Offset	000-255			
			Focus Offset	000-255			
			Zoom Offset	000-255			
			Frost Offset	000-255			
			8 Prism Offset	000-255			
			8 RPrism Offset	000-255			
			24 Prism Offset	000-255			
			24 RPrism Offset	000-255			
			Factory Reset	No		No	
				Yes			
		(Code :068)	Language	English			
				Chinese			

MENU

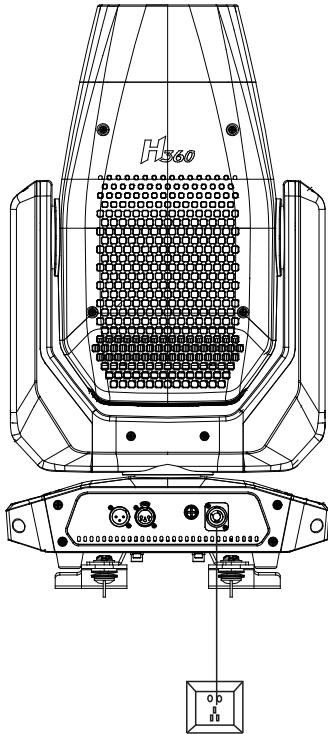
EK-H360_MENU						
NO.	Main Menu	Menu level 1	Menu level 2	Menu	Default	Description for
1	CONNECT	DMX Address	1-495		1	
2	OPTION	Movement Setting	Pan Reverse	Off	Off	
				On		
			Tilt Reverse	Off	Off	
				On		
		Display Setting	Encoder Pan/Tilt	Off		
				On	On	
			Warn Cue	Off		
				On	On	
			Backlight	Off	Off	
				On		
3	INFORMATION	Display Setting	Display Reverse	Off		code: UP+DOWN hold 3S
				On		
			Key Lock	Off	Off	code: UP DOWN UP DOUN ENTER
				On		
		Reset Setting	All	No	No	
				Yes		
			Pan/Tilt	No	No	
				Yes		
			Head	No	No	
				Yes		
		System Errors				
		Time	Fixture Hours	0~9999H		
			Lamp Hours	0~9999H		
		System Version	DISP:V1.0			
			CTR1-XY:V1.0			
			CTR2-MOTOR:V1.0			
			CTR3-MOTOR:V1.0			
		UID	030F05E*****			

INSTALLATION



The H360 may be set up on a solid and even surface. By means of the fixing facilities of the baseplate, the unit can also be mounted on a truss system or horizontally to the wall or ceiling. For fixing, stable mounting clips are required. The bolts of the brackets are placed into the openings provided in the base plate and turned clockwise until they lock (to the stop). 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 of 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's being used. Always additionally secure the projector with the safety rope from falling down. For this purpose, fasten the safety rope at a suitable position so that the maximum fall of the projector will be 20 cm.

POWER CONNECTION



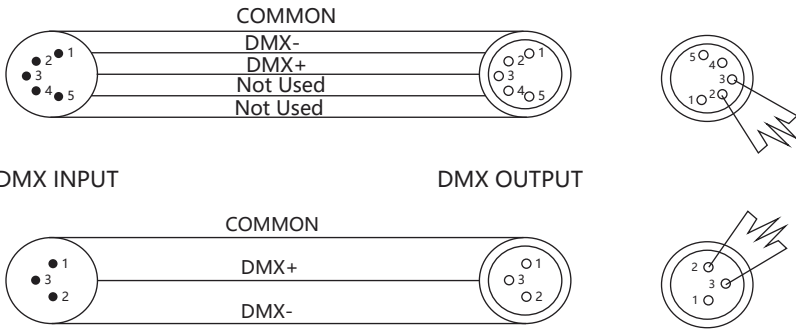
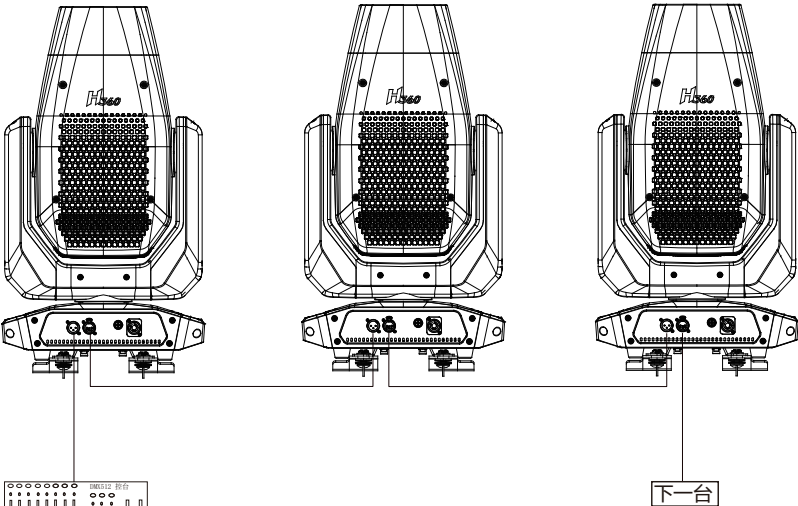
Using 1.5mm² Power cable with PowerCon In connected to mains
Attention: due to the power rating, one power cable can connect 1 unit maximum.



WARNING

Do not connect more than 1 unit in series with one power cable
Do not use damage power cable
Power off the fixture when not in use

DMX CONNECTION



Relation between DMX and Address

MODE	ALLOCATION	START ADDRESS 1ST FIXTURE	START ADDRESS 2ND FIXTURE	START ADDRESS 3RD FIXTURE	START ADDRESS 4TH FIXTURE
21CH	001 -021	001	022	043	064

Follow above method for subsequent fixtures, calculating starting addressed as indicated.