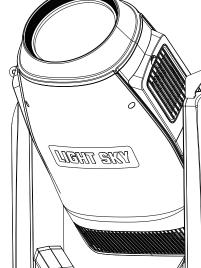


# SUPER SCOPE COLOR User Manual





Web:www.lightsky.com.cn

Tel: 0086-20-61828288

Fax:0086-20-61828188 Pc:510820

E-mail: flydragon@lightsky.com.cn

Address: No. 4, Jingneng Road 1, Huadu District, Guangzhou, China



#### **CONTENTS**

1、	Safety Instructions	2
2、	Technical Specifications	5
	2.1、Attachment And Size	8
3、	Prism/Effect/Pattern	9
	3.1、Replacing Rotating Gobos	10
4、	Control Panel	13
5、	Connection and control	14
	5.1. Power supply connection	14
	5.2 DMX 512 Connection	15
6,	How To Set The Unit	16
	6.1、Main Function	16
	6.2. Channel Setting	19
	6.3、Address Setting	19
	6.4、DMX 512 Configuration	20
7、	Electrical Connection Diagram	33
8,	Troubleshooting	34
9,	Fixture Cleaning	37
10	Duty exonerative and copyright protectio	37

## Congratulations on choosing our company product! We thank you for your custom.

- ◆Please note that this product, as all the others in the rich my company range, has been designed and made with total quality to ensure excellent performance and best meet your expectations and requirements.
- ◆Carefully read this user manual in its entirety and keep it safe for future reference. It is essential to know the information and comply with the instructions given in this manual to ensure the fitting is installed, used and serviced correctly and safely.
- ◆My company disclaims all liability for damage to the fitting or to other property or persons deriving from installation, use and maintenance that have not been carried out in conformity with this user manual, which must always accompany the fitting.
- ♦ My company reserves the right to modify the characteristics stated in this user manual at any time and without prior notice.

## 1.Safety Instructions

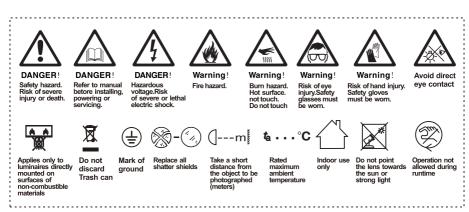


Please read the instruction carefully which includes important information about the installation, usage and maintenance.

## WARNING

Please keep this User Manual for future consultation. If you sell the unit to another user, be sure that they also receive this manual.

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



# Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

- Unpack and check carefully to ensure that there is no transportation damage before using the unit.
- ▶ This product is for indoor use only. Use only in a dry location.
- ▶ Do install and operate by qualified operator.
- ► The light source in this luminaire should be replaced by the manufacturer or its service agent or a similarly qualified person, always cut off the power supply before replacing he light source.
- ▶ Do not allow children to operate the fixture.

- ► The unit must be installed in a location with adequate ventilation, at least 20cm from adjacent surfaces.
- ▶ Be sure that no ventilation slots is blocked, otherwise the unit will be overheated.
- ▶ Before operation, ensure that you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- ▶ It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- ▶ Minimum ambient temperature Ta: -10 °C. Maximum ambient temperature Ta: 45 °C. Do not operate this product at a lower or higher temperature.
- ▶ Do not connect the device to any dimmer pack.
- ▶ When the lamp is running, do not place combustible objects next to it. The shortest distance between the device and inflammable and explosive objects or materials is 0.5m.
- ▶ Make sure the power cord is not crimped or damaged; replace it immediately if damaged.
- ▶ Unit's surface temperature may reach up to 75°C. Do not touch the housing bare-handedduring its operation.
- Avoid any flammable liquids, water or metal from entering the unit. Once it happens, cut off the mains power immediately.
- ▶ Do not operate in a dirty or dusty environment. Do clean the fixture regularly.
- ▶ Do not touch any wire during operation as there might be a hazard of electric shock.
- Avoid entanglement of the power cord with other wires.
- ▶ The minimum distance to objects/surface must be more than 3 meters.
- ▶ In the event of serious operating problem, stop using the unit immediately.
- ▶ Never turn on and off the unit time after time.
- ► The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- ▶ Do not open the housing as there are no user serviceable parts inside.
- ▶ Do not attempt to operate this unit if it becomes damaged. Do not attempt any repairs yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.
- ▶ Disconnect this product from its power source before servicing.
- ▶ Do use the original packaging if the device is to be transported.
- ▶ Avoid direct eye exposure to the light source while the product is on.

▶ Do not operate this product if you see damage on the housing, shields, or cables. Have the damaged parts replaced by an authorized technician at once.

## Installation:

The fixture should be fixed on the clamp. Always ensure that the unit is firmly fixed to avoid vibration and slipping off during operation. Ensure that the trussing or area of installation must be able to hold 10 times the weight without any deformation. Always install a safety cable that can hold at least 12 times the weight of the fixture when installing. Do install and operate by qualified operator. It must be installed in a place where there is out of the reach of people.

## 2. Technical Specifications

#### **OPTICS**

- Light source: 600W five color LED module (RGBAL)

- Zoom range: 5.9 ° -52 °

- Optical lens: coated with high anti reflective film, diameter 180mm

Color temperature: 2500-10000 KColor rendering index: Reachable 95

- Illuminance: 12500 Lux@10m

- Whole lamp output luminous flux: 17600 Lm

- LED source life expectancy: 40000 hours(\*LED source life depends on several factors, including but not limited to:environmental conditions, control dimming, power supply and voltage, switchingcycle, fixture mode, etc.)

#### **COLOUR**

- 66 electronic color chips with rich colors
- Virtual CMY
- Virtual CTO

#### **PATTERN**

- 2 rotating pattern disks, 14 glass pattern pieces, with a dynamic stacking effect that can be plugged and replaced to achieve self rotation, flowing water, and shaking effects,
- Rotating disk A: 7 types of glass patterns+white circles, pattern piece outer diameter 26.9mm, pattern piece inner diameter 21.5mm.(When cutting and imaging patterns, using pattern disc A vields better results)
- Rotating disk B: 7 types of glass patterns+white circles, pattern piece outer diameter 26.9mm, pattern piece inner diameter 21.5mm.
- Dynamic Effect Disk
- Eight way cutting: 4 gratings achieve fast and smooth cutting, and the eight cutting directions and angles can be individually controlled. Each single grating can achieve complete light closure, and the entire cutting module can rotate ± 55°.

#### **EFFECT**

- Octagonal prism, capable of bidirectional rotation.
- Heavy atomization+light atomization, can be independently switched and stacked.
- Equipped with electric aperture, 5-100% linear adjustment, with macro functions and multi effect changes.
- Electronic dimming, 0-100% linear dimming, uniform light spot
- Electronic strobe speed is 1-25 times/second
- LED refresh rate: 1000Hz~25K Hz

#### **CONTROL AND PROGRAMMING**

- Control channels: 60CH, 35CH, 64CH, 49CH, see channel table for details
- Protocol: Standard DMX512 protocol, RDM protocol, Art Net protocol
- Data connection: Three core or five core signal input/output
- Display: LCD screen

## **SOFTWARE**

- Upgrade software through DMX signal or USB interface
- Silent fan, three working modes (silent/standard/high brightness)

#### X/Y-AXIS MOTION ANGLE

- X-axis: 540 ° 8-bit/16bit precision scanning
- Y-axis: 270 ° 8-bit/16bit precision scanning
- Reset function with automatic error correction
- Fixed lock: Y-axis lock

#### **POWER**

- Input voltage: AC 100-240V 50/60HzMaximum power: 1050W (100V input)
- Power factor: 0.996
- Maximum current of the lamp: 10.5A (100V input)

#### SIZE AND WEIGHT

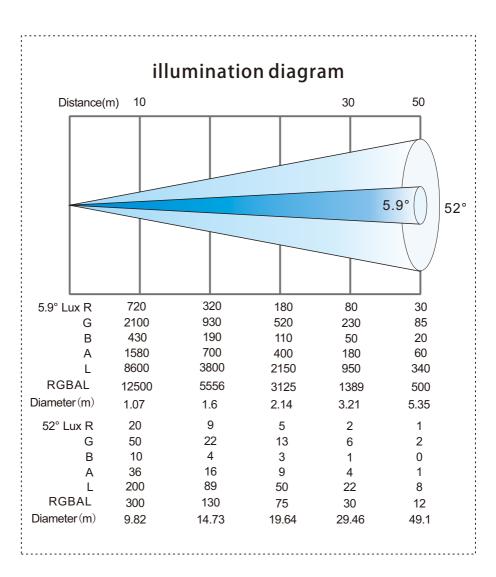
- Product size: 442mm × 282mm × 788mm
- Carton packaging (default): 520mm × 370mm × 870mm
- Net weight: 37.6Kg Gross weight: 43.0kg

## **OTHER**

- Protection level: Ip20
- Working environment: -10 °C~45°C
- Maximum surface temperature of lamp body:75°C

#### STANDARDS AND CERTIFICATION

- The product implementation standard: GB/T 7000.1-2023 、 GB/T 7000.217-2023
- Approved certifications: CE , RoHs
- The product complies with the following EU directives:
   Low Voltage Directive 2014/35/EU. EMC Directive 2014/30/EU



# 2.1.Attachment And Size

# Attachment contents-Fig.1







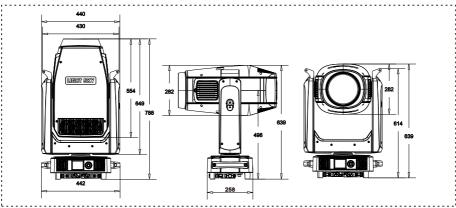


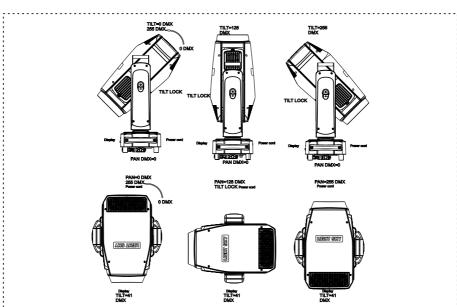






# Size-Fig.2





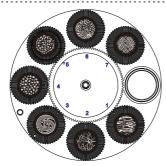
## 3.Prism/Effect/Pattern



8 Prism



Effect disc



Rotating gobo wheel A



FG2426

FG2430



FG2429

FG2425





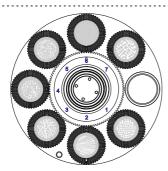


FG2424





Rotation Gobo Size



Rotating gobo wheel B





FG2436



FG2433 FG2432







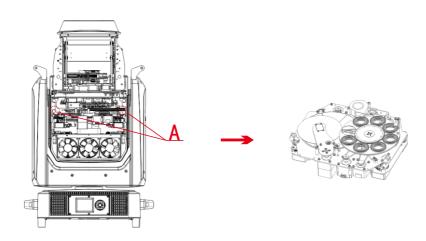
FG2431 Rotation Gobo Size

## DANGER!

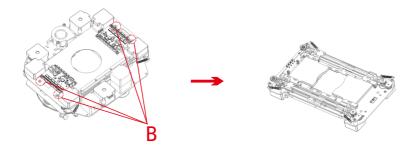
Install the rotating gobos with the device switched of fonly. Unplug from mains before changing the rotating gobos!

# 3.1.Replacing Rotating Gobos

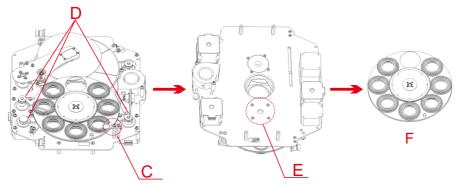
1. Use a screwdriver to unscrew the two screws at **A** to take out the pattern color module assembly;



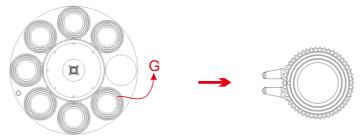
2. Reverse the assembly, and use a screwdriver to unscrew the four screws at **B** to separate the pattern color module from the CMY module;



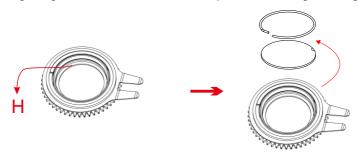
3. Use a screwdriver from the front of the pattern module to unscrew the two screws of the magnetic induction board at  $\mathbf{C}$ , and remove the magnetic induction board; then half loosen the screws on the three motors at  $\mathbf{D}$ , move the motor and take off the belt; turn the pattern module back Come here, unscrew the four screws at  $\mathbf{E}$  with a screwdriver, and you can take out the rotating gobo and fixed gobo assembly (as shown in Figure  $\mathbf{F}$ , the front is the rotating gobo, and the back is the fixed gobo)



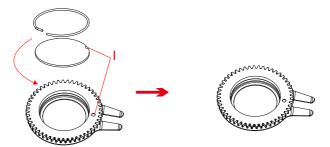
4. As shown in **G**, gently lift the gobo driven wheel from the edge upwards from the back of the gobo wheel and pull it out slowly to take out a single gobo;



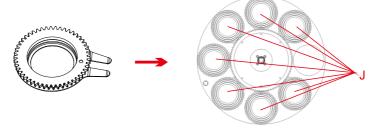
5. Take out the circlip at **H** with tweezers or other small objects that can be held (if the gobo is coated with glass glue for fixing, please use a professional cleaning agent to remove the glass glue and then take out the circlip to avoid damage to the gobo);



6. When assembling the gobo, avoid touching the gobo directly with your hands, and as shown in I, align the notched part of the gobo with the depression of the driven wheel assembly (the coating surface of the gobo should face the light source);

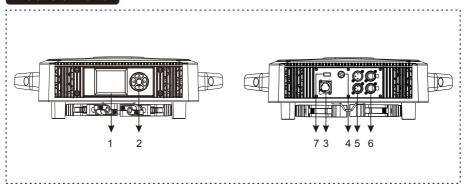


7. Insert the gobo driven wheel into the driving wheel assembly, as shown in J, the concave point of the gobo driven wheel must be positioned towards the center of the driving wheel;



8. After installation, put the component back to the fixture.

## **4.Control Panel**



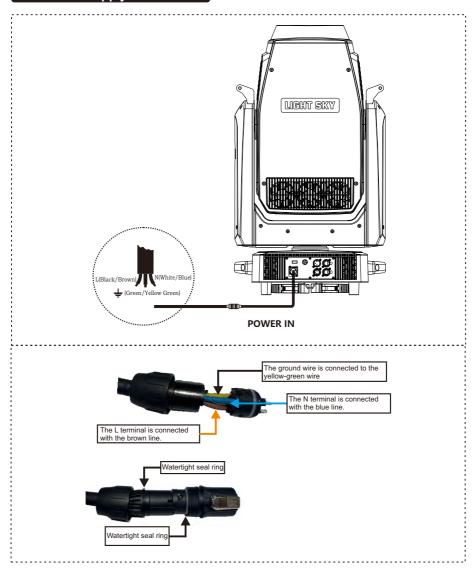
- 1. Display: To show the various menus and the selected function
- 2. Button:

	OK confirmation key
	UP
•	DOWN
•	To the left
	To the right

- 3. Socket version power input: connect the power supply.
- 4. Fuse holder: Used for the bottom box battery pack power supply display board when not powered on.(Note: In the case of air transportation, the lighting fixtures will require disassembly of fuses for shipment, and they must be installed by themselves upon receipt.)
- 5.DMX inputloutput: Used for DMX512 connection, use 3/5 core XLR signal cable toconnect console and lamps,And input/output DMX signal.
- 6.Art-net: The information of the lamp can be transmitted to the main controllerthrough the network cable, and the lamp can be controlled through RJ45(optional).
- 7. Firmware upgrade: Used to upgrade the fixture's firmware.

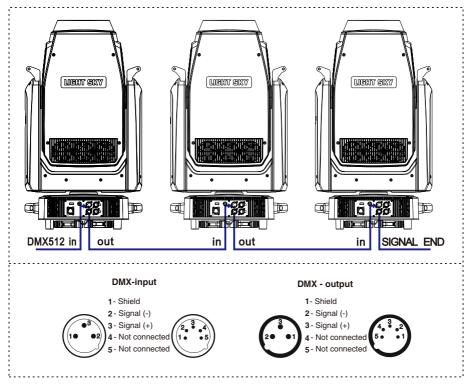
# 5.Connection and control

# 5.1. Power supply connection



- The bus connecting the power supply must be installed by a qualified professional technician.
- After completing all the above operations and ensuring that it is installed, you can power on the lamp to operate.

## 5.2.DMX 512 Connection



- 1. At last unit, the DMX cable has to be terminated with a terminator. Solder a 1200hm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
- 2. Connect the unit together in a "daisy chain" by XLR plug cable from the output of the unit to the input of the next unit. The cable cannot be branched or split to a "Y" cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
- 3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.
- 4. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 1-512.
- 5. The end of the DMX 512 system should be terminated to reduce signal errors.
- 6. 3 pin XLR connectors are more popular than 5 pins XLR.
- 3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
- 5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4, Pin5 not used.

# 6.How To Set The Unit

# 6.1.Main Function

Motions	Main menu		I menu		II menu		III menu		IV menu
Description			Address	+	1-512				
Extended (60)					Standard (60)				
Description			C1 1		Basic (35)				
Box Stills			Channel mode	_	Extended (64)				
Dec. state					Compatible(49)				
Description	DMX SETTING	-							
Dept mode			Dmx state	-					
Input node						H			
Pixture times			Input mode			t			
Person   Process   Proce			Input mout	1		H			
Fature times		Н				┝	n = 99999H		
Titl time			Finture times						
Topperatures			rixture times						
Private   Drive ThP									
Description			Temperatures			+	AXXX C		
Par						┝	AAAA C		
A			RDM info			-			
1									
Display   NY, XXX   NX, XXX   NY, XXX   NX, XXX   NX, XXX   NX, XXX   NX, XXX   NX, XXX   NX, XX   NX,		_	DMX live	-	2. Pan fine				
Version info					3				
Version info									
Version info		1						L	
Profile		1			Gobo module	1	VX. XXX	L	
Profile		1	Version info	-	Profile1	-	VX. XXX	L	
Loss module		1							
Tifan					Zoom module	1	VX. XXX		
Tifan	Info	1				1			
Outfan					InFan		xxx V		
Golobfan   Sax X   Sax Y   Securifican   Sax X   Securifican   Sax X   Securifican						1			
ProfilePan   Sax V						1			
Focusion   Sax V   Six Form   Infand   Infand   Six Form   Infand   Six Form   Infand   Six Form   Infand   Six Form						1	YYY V		
Fan Info   Infant						ł			
Fan Info						1			
Fan Info						1			
OutFan1			D 7.0			ł			
DatFan2			ran Into			Γ.			
OutPan3						1			
GaboFan   ProfileFan   GK/Error   GK/Error							OK/Error		
ProfileFam						1			
FacusFan1									
FacusFan2						]			
PT swap						]			
Par invert					FocusFan2				
Pan invert					DT	١.	OFF		
Tilt invert					rī swap	_	ON		
Tilt invert							OFF		
Tilt invert					Pan invert	_			
Tilt /Pan				1					
PT Encoder		1			lilt invert	1		Г	
Proceder		1		1		T		Г	
Tilt /Pan		1			PT Encoder	-		Т	
PT sold		1		1		t		H	
PT move black		1	Tilt /Pan	-	PT Mode	-		H	
PT move black		1		1		H		Н	
PT Follow Spot		L			PT move black	-		H	
PT Follow Spot		L		4		Ͱ		H	
Pf Follow Spot   Medium		1				1		H	
Noise mode		L			PT Follow Spot	-		L	
PT Parking		1			•	1		L	
P Parking		L		ļ		1		L	
Silent		1			PT Parking	L			
Noise mode		1				L	ON		
High Output		L		- 1		L		L	
Language		L	Noise mode	-		Ĺ		Ĺ	
Language		1		1	High Output				
Longuage		L					English		
Display		L			Language	_		Г	
Display		L		1		T		Г	
Person		1			Backlight time	-		Т	
Person		1	Display	-	Intensity	_		Н	
Rotation Rotate 180	Person	L		1		H		H	
		-			Potation	L		H	
lauto		1			notation	Γ		H	
	T.	I				_	nuco	_	I

Main menu	I menu	II menu		III menu		IV menu
		IP Address		xxx. xxx. xxx. xxx		
		Mask Address		XXX. XXX. XXX. XXX		
		Net Address		0-127		
	Ethernet Set	Sub Net Address		0-15		
		Universe Address		0-15		
		sACN Universe Add.		1-63999		
		DHCP		0FF		
				ON ON		
		Linear				
	Dimmer Curve	Square (Default)				
		I-Square				
		SCurve				
		4000 Hz				
	Led Preq Set	→ 8000 Hz				
		16000 Hz				
		25000 Hz				
	Zoom Invert Set	→ OFF				
		ON				
	Color Mixing Mode	→ CMY				
		RGB				
		Off				
		750W				
	Tungsten Effect	→ 1000W			-	
	rangoton attect	1200W				
		2000W				
		2500W				
	Light Out Stab.	OFF				
	Light out Stab.	ON				
	Led Calibration	OFF				
	Led Calibration	ON				
		1. Pan		0 - 255		
	Manual Control	→ 2. Pan fine		• 0 - 255		
		3		0 - 255		
		Total reset				
Manual	-	Pan/Tilt reset				
	D t	Gobo reset				
	Reset	Profile reset				
		Focus reset				
		Effect reset				
	Test all	Testing				
Test	→ Test pan/tilt	→ Testing				
	Test effects	Testing				
		Memory IC		OK/Reset/Error		
		Angle Sensor		OK/Reset/Error		
		Pan Encodeer		OK/Reset/Error		
		Tilt Encoder		OK/Reset/Error		
		Pan		OK/Reset/Error		
		Tilt		OK/Reset/Error		
		Gobo1		OK/Reset/Error		
	Fixture state	→ Gobol Rot.		→ OK/Reset/Error		
		Gobo2		OK/Reset/Error		
		Gobo2 Rot.		OK/Reset/Error		
		Fram Rot.		OK/Reset/Error		
		Zoom		OK/Reset/Error		
	11	Focus		OK/Reset/Error		
				OK/Reset/Error		
		Prism	- 1			
				OK/Reset/Error		
		Prism Prism Rot. Pan		OK/Reset/Error 0 - 255		
		Prism Rot. Pan		0 - 255 0 - 255		
		Prism Rot.		0 - 255		
		Prism Rot. Pan Tilt Red		0 - 255 0 - 255		
		Prism Rot. Pan Tilt		0 - 255 0 - 255 0 - 255		
		Prism Rot. Pan Tilt Red Green		0 - 255 0 - 255 0 - 255 0 - 255 0 - 255		
		Prism Rot. Pan Tilt Red Green Blue Amber		0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255		
		Prism Rot. Pan Tilt Red Green Blue Amber LightGreen		0 - 255 0 - 255		
		Prism Rot. Pan Tilt Red Green Blue Amber LightGreen Gobol		0 - 255 0 - 255		
		Prism Rot. Pan Tilt Red Green Blue Amber LightGreen Gobol Gobol Rot.		0 - 255 0 - 255		
		Prism Rot.  Pan Tilt  Red  Green  Blue  Amber  LightGreen  Gobol  Gobol Rot.  Gobo2		0 - 255 0 - 255		
		Prism Rot. Pan Tilt Red Green Blue Amber LightGreen Gobol Gobol Rot. Gobo2 Gobo2 Rot.		0 - 255 0 - 255		
		Priss Rot.  Pan  Tilt  Red  Green  Blue  Amber  LightGreen  Gobol  Gobol Rot.  Gobo2  Gobo2 Rot.  Blade 1A		0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255		
		Priss Rot.   Pan		0 - 255 0 - 255		
		Prism Rot. Pan Tilt Red Green Blue Amber LightGreen Gobol Gobol Rot. Gobo2 Gobo2 Rot. Blade 1A Blade 1B Blade 2A		0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255		
		Priss Rot.   Pan   Tilt   Red   Green   Blue   Amber   LightGreen   Gobol Rot.   Gobol Rot.   Gobol Rot.   Blade IA   Blade IB   Blade 2B   Blade 2B   Blade 2B   Can   Can		0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255		
	Adjust	Prism Rot. Pan Tilt Red Green Blue Amber LightGreen Gobol Gobol Rot. Gobo2 Gobo2 Rot. Blade 1A Blade 1B Blade 2A		0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255 0 - 255		

Main menu	I menu		TT mon-		III menu	_	IV menu
maili menu	1 mend	Blade	II menu 4B	Н	0 - 255	+	TA meng
		Framin			0 - 255	+	1
		Prism	grot.		0 - 255	+	
						+	
		Prism			0 - 255	4	
		Effect			0 - 255	$\perp$	
		Light	Prost		0 - 255		
		Medium	Frost	1	0 - 255	Т	
		Iris		1	0 - 255	T	
		Zoom			0 - 255	+	
					0 - 255	+	
		Focus	-		0 - 255	+	<u> </u>
		Dimmer				+	
		FosFor			0 - 255	4	
		FosFor			0 - 255	1	
		FosFor	Íris		0 - 255	Ш	
		FosFor	Effect	1	0 - 255	Т	
					Red(xxx)	T	0-255
					Green (xxx)	٦	0-255
Service	<b> </b> →	Filter	1	L	Blue (xxx)	┥_	0-255
Delvice		riiter.	t .			- -	
					Amber (xxx)	4	0-255
		<del>                                  </del>		L	LightGreen(xxx)	4	0-255
		1.1		1	Red(xxx)	4	0-255
		1.1		1	Green (xxx)	╝	0-255
		Filter	10	-	Blue (xxx)	7-	0-255
		1.1		L	Amber (xxx)	1	0-255
		1.1		1	LightGreen(xxx)	1	0-255
		1 <del>  -</del>			Red(xxx)	+	0-255
						4	
			Filter19		Green (xxx)	4	0-255
	Color Calibration	Filter	19	-	Blue (xxx)	_	0-255
	color carronation				Amber (xxx)		0-255
					LightGreen(xxx)		0-255
						Т	
				T	Red(xxx)	+	0-255
					Green (xxx)	+	0-255
			nno.			-	
		Filter	778	-	Blue (xxx)	- -	0-255
					Amber(xxx)		0-255
					LightGreen(xxx)	Ш	0-255
					Red(xxx)		0-255
					Green (xxx)	7	0-255
		Filter	793	_	Blue (xxx)	٦.	0-255
		111001			Amber (xxx)	+	0-255
						-	
				┝	LightGreen(xxx)	+	0-255
		Factor	y Reset	4	YES /NO	_	
					Reset power on timers	_	YES/NO
		Reset	timers		Reset led timers	-	YES
		1.1			Reset all timers	1	YES
						T	Display
				1			
							Pan/Tilt
							Pan/Tilt
							Gobo module
					Simple undate		Gobo module Framing module1
					Simple update	-	Gobo module Framing module1 Framing module2
					Simple update	-	Gobo module Framing module1
					Simple update	-	Gobo module Framing module1 Framing module2
					Simple update	-	Gobo module Framing module1 Framing module2 Zoom module LEDQD
		Update			Simple update	-	Gobo module Framing module1 Framing module2 Zoom module LEDQD ALL
	Factory	Update			Simple update	-	Gobo module Framing module1 Framing module2 Zoom module LEDQD ALL Display
	Factory	Update		-	Simple update	-	Gobo module Framing module1 Framing module2 Zoom module LEDQD ALL Display Pan/Tilt
	Factory	Update -		-	Simple update	-	Gobo module Framing module1 Framing module2 Zoom module LEDQD ALL Display Pan/Tilt Gobo module
	Factory	Update -		-		-	Gobo module Framing module1 Framing module2 Zoom module LEDQO ALL Display Pan/Tilt Gobo module Framing module1
	Factory	Update →		-	Simple update  Whole update	-	Gobo module Framing module1 Framing module2 Zoom module LEDQD ALL Display Pan/Tilt Gobo module
	Factory	Update		-		-	Gobo module Framing module1 Framing module2 Zoom module LEDQO ALL Display Pan/Tilt Gobo module Framing module1
	Factory	Update		-		-	Gobo module Framing module1 Framing module2 Zoom module LEDQD ALL Display Pan/Tilt Gobo module Framing module1 Framing module1 Framing module1 Framing module2 Zoom module
	Factory	Update		-		-	Gobo module Framing module1 Framing module2 Zoom module LEDQO ALL Display Pan/Tilt Gobo module Framing module1 Framing module1 Framing module1 Framing module2 Zoom module LEDQO
	Factory			-		-	Gobo module Framing module1 Framing module2 Zoom module LEDQD ALL Display Pan/Tilt Gobo module Framing module1 Framing module1 Framing module2 Zoom module
	Factory	Power	select	-		-	Gobo module Framing module1 Framing module2 Zoom module LEDQO ALL Display Pan/Tilt Gobo module Framing module1 Framing module1 Framing module1 Framing module2 Zoom module LEDQO
	Factory	Power Logo s	solect olect	-		-	Gobo module Framing module1 Framing module2 Zoom module LEDQO ALL Display Pan/Tilt Gobo module Framing module1 Framing module1 Framing module1 Framing module2 Zoom module LEDQO
	Factory	Power Logo s	select	-		-	Gobo module Framing module1 Framing module2 Zoom module LEDQO ALL Display Pan/Tilt Gobo module Framing module1 Framing module1 Framing module1 Framing module2 Zoom module LEDQO
	Factory	Power Logo s Fixtur	select elect e Type	-		-	Gobo module Framing module1 Framing module2 Zoom module LEDQO ALL Display Pan/Tilt Gobo module Framing module1 Framing module1 Framing module1 Framing module2 Zoom module LEDQO
	Factory	Power Logo s Fixtur	solect olect	-	Whole update	-	Gobo module Framing module1 Framing module2 Zoom module LEDQO ALL Display Pan/Tilt Gobo module Framing module1 Framing module1 Framing module1 Framing module2 Zoom module LEDQO
	Factory	Power Logo s Fixtur	welect elect Type g Adjust Mode	-	Whole update	-	Gobo module Franing module1 Franing module2 Zoom module LEDQO ALL Display Pan/Tilt Gobo module Franing module1 Franing module1 Franing module1 Franing module2 Zoom module LEDQO

## 6.2.Channel Setting

Press the OK button to confirm, use the up/down buttons to select the channel mode: mode 1 (60CH), mode 2 (35CH), mode 3 (64CH), mode 4 (49CH),press the OK button to save. Press the left/right button to return to the previous menu.

## 6.3.Address Setting

When using a universal DMX controller to control the fixture, you need to set the starting address (1-512) for the fixture so that the machine can receive to the DMX signal. Select the DMX address, press the OK button to confirm, the current DMX address will be shown on the display. Use the left/right buttons to select 001~512 address, press the OK button to save. Press the left/right button to return to the previous menu.

#### Please refer to the following diagram to address your DMX512 channel for the first 4 units.

Channel mode	Unit 1 Address	Unit <b>2</b> Address	Unit <b>3</b> Address	Unit <b>4</b> Address
60 Channel	1	61	121	181
35 Channel	1	36	71	106
64 Channel	1	65	129	193
49 Channel	1	50	99	148

# 6.4.DMX 512 Configuration

60 Channel	35 Channel	64 Channel	49 Channel	DMX	Function	Note
1	1	1	1	- Dans	Pan	Angle: 0-540°
1	1	1	1	0-255	Pan movement/positioning	Maximum: 3.65S
2	2	2	2	0-255	Pan fine	
				0-255	Fine pan positioning TILT	Angle: 0-270°
3	3	3	3	0-255	Tilt movement/positioning	Maximum: 2.28S
4	4	4	4		TILT fine	
	*	*	•	0-255	Fine tilt movement/positioning	
					PAN/TILT Speed, Pan/Tilt time	
				0	Standard mode (0=default)	
5	5	5	5	1	Max. Speed Mode Pan/Tilt speed mode	
				2-255	Speed from max. to min.	
				2 200	Pan/Tilt time mode	
				2-255	Time from 0.2 sec. to 25.5 sec.	
					Functions	
					To activate following functions, stop in DMX value for at least 3 s	
				0-9	Reserved (0=default)	
					DMX input: DMX	
				15-19 20-24	DMX input:Art-Net Display Back light is on	
				25-29	Display Back light is auto(Default)	
				30-34	Zoom Invert	
				35-39 40-44	Zoom Forward (Default)	
					Pan/Tilt mode: Speed(Default) Pan/Tilt mode: Time	
					Blackout while pan/tilt moving: On	
					Blackout while pan/tilt moving: Off (Default)	
					Reserved Reserved	
					Fan mode:Silent	
				75-79	Fan mode:Standard (Default)	
				80-84	Fan mode:High Output	
				85-89 90-94	Dmx state: Black (Default) Dmx state: Hold	
				95-99	Led calibration off	
					Led calibration on (Default)	
					Reserved	
6	6	6	6		Parking position on Parking position off (Default)	
					Fixture reset(except pan/tilt)	
					Pan/Tilt reset	
					Reserved	1
					Gobo wheels/effect wheel reset Reserved	1
					Zoom/focus/frosts/prisms reset	1
					Iris /framing shutters reset	1
					Total fixture reset	1
				210-211	Green correction calibration	
				212-218	Reserved	
					The following three commands define transition from gobo rotation to gobo indexing:	
					Maximum speed and shortcut (Use in future, now no function)	1
				221-222 223-224	Follow speed and direction (Use in future, now no function)  Maximum speed and follow direction (Use in future, now no function)	1
				223-224	Maximum speed and follow direction (Use in future, now no function) The following RoboSpot related commands are only applicable when the RoboSpot is connected: (Use in future, now no function)	
				225-229	RoboSpot enabled(Use in future, now no function)	1
				230-234	RoboSpot disabled - except handle faders and pan/tilt(Use in future, now no function)	
				235-239	RoboSpot fully disabled (Use in future, now no function)	
				240	Disabled "Quiet mode"	
				241-255	Quiet mode - fan noise control from min. to max.	]

60 Channel	35 Channel	64 Channel	49 Channel	DMX	Function	Note
					LED frequency selection	
					Factory display menu setting: 8000Hz	
					Select PWM output frequency of LEDs. Selected PWM frequency can be	
					fine adjusted in 127 steps up/down around selected PWM frequency on the channel below. Corresponding menu item (Frequency Setup) is	
					temporarily overriden.	
7	1	7	7		PWM frequency from Display menu (fixture utilizes PWM frequency set in	
	·			0-4	the display menu item Frequency Setup).	
				5-9	4000 Hz	
				10-14	8000 Hz (10=default)	
				15-19	16000 Hz	
				20-24	25000 Hz	
				25-255	Reserved (fixture utilizes PWM frequency set in the display menu item  LED frequency fine adjusting	
					Factory display menu setting: 8000Hz	
					Select desired PWM output frequency of LEDs on the channel above.	
				0-1	Selected LED Frequency	
				2	LED Frequency (step -126)	
				3 4	LED Frequency (step -125) LED Frequency (step -124)	
				5	LED Frequency (step -124) LED Frequency (step -123)	
				6	LED Frequency (step -122)	
				7	LED Frequency (step -121)	
				8	LED Frequency (step -120)	
				9 10	LED Frequency (step -119) LED Frequency (step -118)	
				10	LED Frequency (step -118) LED Frequency (step -117)	
				12	LED Frequency (step -116)	
				13	LED Frequency (step -115)	
				14	LED Frequency (step -114)	
				15	LED Frequency (step -113)	
				16 17	LED Frequency (step -112)	
				17	LED Frequency (step -111) LED Frequency (step -110)	
				19	LED Frequency (step -109)	
				20	LED Frequency (step -108)	
				21	LED Frequency (step -107)	
				22	LED Frequency (step -106)	
				23	LED Frequency (step -105)	
				24 25	LED Frequency (step -104) LED Frequency (step -103)	
				26	LED Frequency (step 100)	
				27	LED Frequency (step -101)	
				28	LED Frequency (step -100)	
				29	LED Frequency (step -99)	
				30 31	LED Frequency (step -98)	
				31	LED Frequency (step -97) LED Frequency (step -96)	
				33	LED Frequency (step 90)	
				34	LED Frequency (step -94)	
				35	LED Frequency (step -93)	
				36	LED Frequency (step -92)	
				37 38	LED Frequency (step -91)	
				38	LED Frequency (step -90) LED Frequency (step -89)	
				40	LED Frequency (step -89) LED Frequency (step -88)	
				41	LED Frequency (step -87)	
				42	LED Frequency (step -86)	
				43	LED Frequency (step -85)	
				44	LED Frequency (step -84)	
				45 46	LED Frequency (step -83)	
				46 47	LED Frequency (step -82) LED Frequency (step -81)	
				48	LED Frequency (step -81) LED Frequency (step -80)	
				49	LED Frequency (step -79)	
				50	LED Frequency (step -78)	
				51	LED Frequency (step -77)	
				52 53	LED Frequency (step -76) LED Frequency (step -75)	

60 Channel	35 Channel	64 Channel	49 Channel	DMX		Function	Note
				54	LED Frequency (step		
				55 56	LED Frequency (step LED Frequency (step		
				57	LED Frequency (step LED Frequency (step		
				58	LED Frequency (step		
				59	LED Frequency (step		
				60	LED Frequency (step		
				61 62	LED Frequency (step LED Frequency (step		
				63	LED Frequency (step LED Frequency (step		
				64	LED Frequency (step		
				65	LED Frequency (step		
				66	LED Frequency (step		
				67 68	LED Frequency (ster LED Frequency (ster		
				69	LED Frequency (step LED Frequency (step		
				70	LED Frequency (step		
				71	LED Frequency (step	57)	
				72	LED Frequency (step		
				73 74	LED Frequency (ster		
				74 75	LED Frequency (ster LED Frequency (ster		
				76	LED Frequency (step LED Frequency (step		
				77	LED Frequency (step	5 -51)	
				78	LED Frequency (step		
				79	LED Frequency (step		
				80 81	LED Frequency (step LED Frequency (step		
				82	LED Frequency (step LED Frequency (step	0 -46)	
				83	LED Frequency (step		
				84	LED Frequency (step		
				85	LED Frequency (step		
				86 87	LED Frequency (ster LED Frequency (ster		
				88	LED Frequency (step LED Frequency (step		
				89	LED Frequency (step		
				90	LED Frequency (step		
				91	LED Frequency (step		
				92 93	LED Frequency (step		
				93	LED Frequency (ster LED Frequency (ster		
				95	LED Frequency (step		
				96	LED Frequency (step		
				97	LED Frequency (step		
				98	LED Frequency (step		
				99 100	LED Frequency (ster LED Frequency (ster		
				100	LED Frequency (step LED Frequency (step		
				102	LED Frequency (step		
				103	LED Frequency (step	0 -25)	
				104	LED Frequency (step		
				105 106	LED Frequency (step LED Frequency (step		
				106	LED Frequency (step LED Frequency (step		
				108	LED Frequency (step		
				109	LED Frequency (step	0 -19)	
				110	LED Frequency (step		
				111 112	LED Frequency (step		
				112	LED Frequency (step LED Frequency (step		
				114	LED Frequency (step		
				115	LED Frequency (step		
				116	LED Frequency (step		
				117	LED Frequency (ster		
				118 119	LED Frequency (step LED Frequency (step		
				119	LED Frequency (step LED Frequency (step		
				121	LED Frequency (step		
8	,	8	8	122	LED Frequency (step		
1 1			•	123	LED Frequency (step	5) -5)	

60 Channel	35 Channel	64 Channel	49 Channel	DMX	Function	Note
				124	LED Frequency (step -4)	
				125	LED Frequency (step -3)	
				126 127	LED Frequency (step -2) LED Frequency (step -1)	
				128	Selected LED Frequency (128=default)	
				129	LED Frequency (step +1)	
				130	LED Frequency (step +2)	
				131	LED Frequency (step +3)	
·				132 133	LED Frequency (step +4) LED Frequency (step +5)	
				134	LED Frequency (step +6)	
				135	LED Frequency (step +7)	
·				136	LED Frequency (step +8)	
				137 138	LED Frequency (step +9)	
				138	LED Frequency (step +10) LED Frequency (step +11)	
				140	LED Frequency (step +12)	
				141	LED Frequency (step +13)	
				142	LED Frequency (step +14)	
				143	LED Frequency (step +15)	
				144 145	LED Frequency (step +16) LED Frequency (step +17)	
				145	LED Frequency (step +17) LED Frequency (step +18)	
				147	LED Frequency (step +19)	
				148	LED Frequency (step +20)	
				149	LED Frequency (step +21)	
				150 151	LED Frequency (step +22)	
				151	LED Frequency (step +23) LED Frequency (step +24)	
				153	LED Frequency (step +25)	
				154	LED Frequency (step +26)	
				155	LED Frequency (step +27)	
				156 157	LED Frequency (step +28) LED Frequency (step +29)	
				157	LED Frequency (step +29) LED Frequency (step +30)	
				159	LED Frequency (step +31)	
				160	LED Frequency (step +32)	
·				161	LED Frequency (step +33)	
				162 163	LED Frequency (step +34) LED Frequency (step +35)	
				163	LED Frequency (step +35) LED Frequency (step +36)	
				165	LED Frequency (step +37)	
				166	LED Frequency (step +38)	
				167	LED Frequency (step +39)	
				168 169	LED Frequency (step +40) LED Frequency (step +41)	
				170	LED Frequency (step +41) LED Frequency (step +42)	
				171	LED Frequency (step +43)	
				172	LED Frequency (step +44)	
				173	LED Frequency (step +45)	
				174 175	LED Frequency (step +46) LED Frequency (step +47)	
				175	LED Frequency (step +47) LED Frequency (step +48)	
				177	LED Frequency (step +49)	
				178	LED Frequency (step +50)	
				179	LED Frequency (step +51)	
				180 181	LED Frequency (step +52) LED Frequency (step +53)	
				182	LED Frequency (step +53) LED Frequency (step +54)	
				183	LED Frequency (step +55)	
				184	LED Frequency (step +56)	
				185	LED Frequency (step +57)	
				186 187	LED Frequency (step +58)	
				187	LED Frequency (step +59) LED Frequency (step +60)	
				189	LED Frequency (step +61)	
	,	١.		190	LED Frequency (step +62)	
8	/	8	8	191	LED Frequency (step +63)	
.				192 193	LED Frequency (step +64)	
, ,	l .	ı	I	193	LED Frequency (step +65)	

60 Channel	35 Channel	64 Channel	49 Channel	DMX	Function	Note
				194	LED Frequency (step +66)	
				195 196	LED Frequency (step +67)	
				196	LED Frequency (step +68) LED Frequency (step +69)	
				198	LED Frequency (step +70)	
				199	LED Frequency (step +71)	
				200	LED Frequency (step +72)	
				201	LED Frequency (step +73)	
				202 203	LED Frequency (step +74)	
				203	LED Frequency (step +75) LED Frequency (step +76)	
				205	LED Frequency (step +77)	
				206	LED Frequency (step +78)	
				207	LED Frequency (step +79)	
				208	LED Frequency (step +80)	
				209 210	LED Frequency (step +81) LED Frequency (step +82)	
				210	LED Frequency (step +82) LED Frequency (step +83)	
				212	LED Frequency (step +84)	
				213	LED Frequency (step +85)	
				214	LED Frequency (step +86)	
				215	LED Frequency (step +87)	
				216	LED Frequency (step +88)	
				217 218	LED Frequency (step +89) LED Frequency (step +90)	
				219	LED Frequency (step +90) LED Frequency (step +91)	
				220	LED Frequency (step +92)	
				221	LED Frequency (step +93)	
				222	LED Frequency (step +94)	
				223	LED Frequency (step +95)	
				224	LED Frequency (step +96)	
				225 226	LED Frequency (step +97) LED Frequency (step +98)	
				227	LED Frequency (step +99)	
				228	LED Frequency (step +100)	
				229	LED Frequency (step +101)	
				230	LED Frequency (step +102)	
				231	LED Frequency (step +103)	
				232	LED Frequency (step +104) LED Frequency (step +105)	
				234	LED Frequency (step +106)	
				235	LED Frequency (step +107)	
				236	LED Frequency (step +108)	
				237	LED Frequency (step +109)	
				238	LED Frequency (step +110)	
				239 240	LED Frequency (step +111) LED Frequency (step +112)	
				240	LED Frequency (step +112) LED Frequency (step +113)	
				242	LED Frequency (step +114)	
				243	LED Frequency (step +115)	
				244	LED Frequency (step +116)	
				245	LED Frequency (step +117)	
				246 247	LED Frequency (step +118)	
				247	LED Frequency (step +119) LED Frequency (step +120)	
				249	LED Frequency (step +121)	
				250	LED Frequency (step +122)	
				251	LED Frequency (step +123)	
				252	LED Frequency (step +124)	
				253	LED Frequency (step +125)	
				254 255	LED Frequency (step +126) Selected LED Frequency	
				400	Colour functions	
					Factory display menu setting: Colour mixing mode-CMY, Dimmer	
					Curve-Square Law, Tungsten effect simulation-Off, Chromatic white-	
					Off, Light output stability-Off, Uniformity-Off	
		l	I	0	No function (0=default)	

60 Channel	35 Channel	64 Channel	49 Channel	DMX	Function	Note
					To activate following functions, stop in DMX value for at least 3	
					seconds.	
					Corresponding menu items are temporarily overriden	
				1-39	Reserved	
				40-44	Colour mixing mode: CMY (DMX Standard, Basic and Compatible Mode only) Colour mixing mode: RGB (DMX Standard, Basic and Compatible Mode),	
				45-49	RGBAL (DMX Extended Mode only)	
				50-54	Dimmer curve: Square law	
				55-59	Dimmer curve: Linear	
				60-64	Dimmer curve: I-Square law	
				65-69	Dimmer curve: S Curve	
				70-79	Raw DMX	
				80-84	Tungsten effect simulation for whites 2700K-4200K only: Tungsten effect simulation (750W/80V): On	
				85-89	Tungsten effect simulation (1000W/240V): On	
9	7	9	9	90-94	Tungsten effect simulation (1200W/240V): On	
•				95-99	Tungsten effect simulation (2000W/230V): On	
					Tungsten effect simulation (2500W/230V): On	
				105-109 110-114	Tungsten effect simulation: Off Reserved	
				115-119	Chromatic white: On (Use in future, now no function)	
				120-124	Chromatic white: Off (Use in future, now no function)	
					Light output stability On	
					Light output stability Off	
					Uniformity On (Use in future, now no function)	
					Uniformity Off (Use in future, now no function) Reserved	
					Reserved	
				155-159	Reserved	
					Reserved	
					Reserved	
				170-174 175-179	Reserved Reserved	
				180-184	Reserved	
				185-189	Reserved	
				190-194	Reserved	
				195-199	Reserved	
				200-255	Reserved	
10	8	10	10		CRI selection CRI selection from Standard(CRI90+/R9:95+) to High light	
••	•			0-255	(CRI90+/R9:80) (0=default)	
					Virtual Colour wheel	
				0	No function	
				1-2	Filter 4 (Medium Bastard Amber)	
ļ			1	3-4 5-6	Filter 10 (Medium Yellow) Filter 19 (Fire)	
				7-8	Filter 26 (Bright Red)	
				7-8		
				7-8 9-10 11-12	Filter 26 (Bright Red) Filter 58 (Lavender) Filter 68 (Sky Blue)	
				7-8 9-10 11-12 13-14	Filter 26 (Bright Red) Filter 58 (Lavender) Filter 68 (Sky Blue) Filter 71 (Tokyo Blue)	
				7-8 9-10 11-12 13-14 15-16	Filter 26 (Bright Red) Filter 58 (Lavender) Filter 68 (Sky Blue) Filter 71 (Tokyo Blue) Filter 77 (Ust Blue)	
				7-8 9-10 11-12 13-14 15-16 17-18	Filter 26 (Bright Red) Filter 58 (Lavender) Filter 68 (Sky Blue) Filter 71 (Tokyo Blue) Filter 79 (Just Blue) Filter 88 (Lime Green)	
				7-8 9-10 11-12 13-14 15-16 17-18 19-20	Filter 26 (Bright Red) Filter 58 (Lavender) Filter 68 (Sky Blue) Filter 71 (Tokyo Blue) Filter 77 (Ust Blue)	
				7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24	Filter 26 (Bright Red) Filter 58 (Lavender) Filter 68 (Sky Blue) Filter 71 (Tokyo Blue) Filter 79 (Just Blue) Filter 80 (Line Green) Filter 90 (Dark Yellow Green) Filter 100 (Spring Yellow) Filter 101 (Yellow)	
				7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26	Filter 26 (Bright Red) Filter 58 (Lavender) Filter 68 (Sky Blue) Filter 71 (Tokyo Blue) Filter 79 (Just Blue) Filter 88 (Lime Green) Filter 90 (Dark Yellow Green) Filter 100 (Spring Yellow) Filter 101 (Yellow) Filter 102 (Light Amber)	
				7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28	Filter 26 (Bright Red) Filter 58 (Azvender) Filter 68 (Sky Blue) Filter 71 (Tokyo Blue) Filter 79 (Just Blue) Filter 88 (Lime Green) Filter 99 (Dark Yellow Green) Filter 100 (Spring Yellow) Filter 101 (Yellow) Filter 102 (Light Amber) Filter 102 (Straw)	
				7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30	Filter 26 (Bright Red) Filter 58 (Lavender) Filter 68 (Sky Blue) Filter 71 (Tokyo Blue) Filter 79 (Just Blue) Filter 80 (Line Green) Filter 80 (Unie Green) Filter 100 (Spring Yellow) Filter 101 (Viellow) Filter 102 (Light Amber) Filter 103 (Straw) Filter 104 (Deep Amber)	
				7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31-32	Filter 26 (Bright Red) Filter 58 (Lavender) Filter 68 (Sky Blue) Filter 71 (Tokyo Blue) Filter 79 (Just Blue) Filter 88 (Lime Green) Filter 90 (Dark Yellow Green) Filter 100 (Spring Yellow) Filter 101 (Yellow) Filter 102 (Light Amber) Filter 103 (Straw) Filter 104 (Deep Amber) Filter 104 (Deep Amber) Filter 105 (Orrange)	
				7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31-32 33-34	Filter 26 (Bright Red) Filter 58 (Lavender) Filter 68 (Sky Blue) Filter 71 (Tokyo Blue) Filter 79 (Just Blue) Filter 80 (Line Green) Filter 80 (Unie Green) Filter 100 (Spring Yellow) Filter 101 (Viellow) Filter 102 (Light Amber) Filter 103 (Straw) Filter 104 (Deep Amber)	
				7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31-32 33-34 35-36 37-38	Filter 26 (Bright Red) Filter 58 (Azwender) Filter 58 (Ksy Blue) Filter 71 (Tokyo Blue) Filter 79 (Just Blue) Filter 99 (Unit Blue) Filter 90 (Dark Yellow Green) Filter 100 (Spring Yellow) Filter 101 (Yellow) Filter 101 (Yellow) Filter 102 (Light Amber) Filter 104 (Deep Amber) Filter 104 (Orange) Filter 106 (Primary Red) Filter 110 (Arr Pink) Filter 111 (Dark Pink) Filter 111 (Dark Pink)	
				7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31-32 33-34 35-36 37-38 39-40	Filter 26 (Bright Red) Filter 58 (Lavender) Filter 58 (Kay Blue) Filter 71 (Tokyo Blue) Filter 71 (Tokyo Blue) Filter 80 (Lime Green) Filter 90 (Dark Vellow Green) Filter 90 (Oark Vellow Green) Filter 101 (Yellow) Filter 102 (Light Amber) Filter 102 (Light Amber) Filter 104 (Deep Amber) Filter 105 (Orange) Filter 105 (Orange) Filter 111 (Dark Pink) Filter 111 (Dark Pink) Filter 115 (Peacock Blue) Filter 115 (Medium Blue-Green)	
				7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31-32 33-34 35-36 37-38 39-40 41-42	Filter 26 (Bright Red) Filter 58 (Lavender) Filter 58 (Sky Blue) Filter 71 (Tokyo Blue) Filter 79 (Just Blue) Filter 80 (Inie Green) Filter 80 (Inie Green) Filter 90 (Dark Yellow Green) Filter 100 (Spring Yellow) Filter 101 (Yellow) Filter 102 (Light Amber) Filter 103 (Straw) Filter 104 (Deep Amber) Filter 105 (Orange) Filter 106 (Primary Red) Filter 111 (Dark Pink) Filter 115 (Peacock Blue) Filter 116 (Medium Blue-Green) Filter 116 (Steel Blue)	
				7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31-32 33-34 35-36 37-38 39-40 41-42 43-44	Filter 26 (Bright Red) Filter 58 (Azwender) Filter 68 (Sky Blue) Filter 71 (Tokyo Blue) Filter 71 (Tokyo Blue) Filter 79 (Just Blue) Filter 88 (Lime Green) Filter 99 (Dark Yellow Green) Filter 100 (Spring Yellow) Filter 101 (Yellow) Filter 102 (Light Amber) Filter 103 (Straw) Filter 104 (Deep Amber) Filter 104 (Deep Amber) Filter 105 (Orange) Filter 116 (Primary Red) Filter 117 (Dark Pink) Filter 116 (Medium Blue-Green) Filter 117 (Steel Blue) Filter 117 (Steel Blue) Filter 118 (Light Blue)	
				7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31-32 33-34 35-36 37-38 39-40 41-42 43-44	Filter 26 (Bright Red) Filter 58 (Lavender) Filter 58 (Sky Blue) Filter 71 (Tokyo Blue) Filter 79 (Just Blue) Filter 80 (Inie Green) Filter 80 (Inie Green) Filter 90 (Dark Yellow Green) Filter 100 (Spring Yellow) Filter 101 (Yellow) Filter 102 (Light Amber) Filter 103 (Straw) Filter 104 (Deep Amber) Filter 105 (Orange) Filter 106 (Primary Red) Filter 111 (Dark Pink) Filter 115 (Peacock Blue) Filter 116 (Medium Blue-Green) Filter 116 (Steel Blue)	

60 Channel	35 Channel	64 Channel	49 Channel	DMX	Function	Note
				51-52	Filter 128 (Bright Pink)	
					Filter 131 (Marine Blue)	
					Filter 132 (Medium Blue) Filter 134 (Golden Amber)	
				59-60	Filter 134 (Golden Amber) Filter 135 (Deep Golden Amber)	
				61-62	Filter 136 (Pale Lavender)	
				63-64	Filter 137 (Special Lavender)	
				65-66	Filter 138 (Pale Green)	
				67-68	Filter 139 (Primary Green)	
					Filter 141 (Bright Blue)	
					Filter 147 (Apricot)	
					Filter 148 (Bright Rose) Filter 152 (Pale Gold)	
					Filter 152 (Pale Gold) Filter 154 (Pale Rose)	
				79-80	Filter 154 (tale Rose)	
				81-82	Filter 158 (Deep Orange)	
				83-84	Filter 162 (Bastard Amber)	
				85-86	Filter 164 (Flame Red)	
				87-88	Filter 165 (Daylight Blue)	
				89-90	Filter 169 (Lilac Tint)	
					Filter 170 (Deep Lavender)	
					Filter 172 (Lagoon Blue)	
					Filter 179 (Chrome Orange) Filter 180 (Dark Lavender)	
					Filter 181 (Congo Blue)	
					Filter 197 (Alice Blue)	
					Filter 201 (Full C.T. Blue)	
					Filter 202 (Half C.T. Blue)	
					Filter 203 (Quarter C.T. Blue)	
					Filter 204 (Full C.T. Orange)	
					Filter 205 (Half C.T. Orange)	
					Filter 206 (Quarter C.T. Orange) Filter 247 (Filter Minus Green)	
					Filter 248 (Half Minus Green)	
					Filter 281 (Three Quarter C.T. Blue)	
				121-122	Filter 285 (Three Quarter C.T. Orange)	
					Filter 352 (Glacier Blue)	
					Filter 353 (Lighter Blue)	
					Filter 715 (Cabana Blue)	
					Filter 778 (Millennium Gold) Filter 793 (Vanity Fair)	
				131-132	-	
					The following 35 multicolours are intended for using with prisma, rot. gobo, or effect wheel only. If none of the three effects is used,	
					the colours wil not create multicolour effect.	
				133	Multicolour 1	
				134	Multicolour 2	
				135	Multicolour 3	
				136	Multicolour 4	
				137	Multicolour 5	
11	1	11	11	138 139	Multicolour 6 Multicolour 7	
				139	Multicolour / Multicolour 8	
				141	Multicolour 9	
				142	Multicolour 10	
				143	Multicolour 11	
				144	Multicolour 12	
				145	Multicolour 13	
				146	Multicolour 14	
				147 148	Multicolour 15 Multicolour 16	
				148	Multicolour 16 Multicolour 17	
				150	Multicolour 18	
				151	Multicolour 19	
				152	Multicolour 20	
				153	Multicolour 21	
				154	Multicolour 22	
				155	Multicolour 23	
				156	Multicolour 24	
		I	l	157	Multicolour 25	

60 Channel	35 Channel	64 Channel	49 Channel	DMX	Function	Note
				158	Multicolour 26	
				159	Multicolour 27	
				160	Multicolour 28	
				161 162	Multicolour 29 Multicolour 30	
				163	Multicolour 31	
				164	Multicolour 32	
				165	Multicolour 33	
				166	Multicolour 34	
				167	Multicolour 35	
				168	Multicolour 36	
				169 170	Multicolour 37 Multicolour 38	
				170	Multicolour 39	
				172	Multicolour 40	
				173	Multicolour 41	
				174	Multicolour 42	
				175	Multicolour 43	
				176	Multicolour 44	
				177 178	Multicolour 45 Multicolour 46	
				178	Multicolour 45 Multicolour 47	
				180	Multicolour 48	
				181	Multicolour 49	
				182	Multicolour 50	
				183	Multicolour 51	
				184	Multicolour 52	
				185 186	Multicolour 53 Multicolour 54	
				187	Multicolour 55	
				188	Multicolour 56	
				189	Multicolour 57	
				190	Multicolour 58	
				191	Multicolour 59	
				192	Multicolour 60	
				193 194	Multicolour 61 Multicolour 62	
				195	Multicolour 63	
				196	Multicolour 64	
				197	Multicolour 65	
				198	Multicolour 66	
				199	Multicolour 67	
				200 201	Multicolour 68	
				201	Multicolour 69 Multicolour 70	
				203-215	Reserved	
				216-217	User colour 1	
				218-219	User colour 2	
					User colour 3	
					User colour 4	
					User colour 5	
					User colour 6 User colour 7	
					User colour 7 User colour 8	
					User colour 9	
				234-235	User colour 10	
				236-245	Rainbow effect (with fade time) from slow-> fast	
				246-255	Rainbow effect (without fade time) from slow-> fast	
12	9	1	12	0-255	Cyan /Red Cyan/Red 0%-100%	
				0 200	Cyan Fine/Red Fine	
13	/	/	13	0-255	Cyan fine/Red fine 0%-100%	
14	10	/	14	0-255	Magenta/Green Magenta/Green 0%-100%	
15	1	/	15	0-255	Wagenta Fine /Green Fine Magenta fine/Green fine 0%-100%	
16	11	/	16		Yellow/Blue	
17	/	,	17	0-255	Yellow/Blue 0%-100% Yellow Fine /Blue Fine	
11	,	/	1"	0255	Yellow fine/Blue fine 0%-100%	

nnel	49 Channel	DMX	Punction	Note
	1		Red	
	,	0-255	Red 0%-100%	
	,		Red Fine	
	/	0-255	Red fine 0%-100%	
	,		Green	
	/	0-255	Green 0%-100%	
			Green Fine	
	/	0-255	Magenta fine/Green fine 0%-100%	
		0 200		
	/		Blue	
		0-255	Blue 0%-100%	
	/		Blue Fine	
		0-255	Blue fine 0%-100%	
	/		Amber	
	•	0-255	Amber 0%-100%	
	/		Amber Fine	
	•	0-255	Amber fine 0%-100%	
	/		Light Green	
	,	0-255	Light Green 0%-100%	
	1		Light Green Fine	
	,	0-255	Light Green fine 0%-100%	
			Colour temperature correction (CTC)	
		0-1	8000K	
		2-64	Colour temperature changing 7978 K ->6622 K (22 K /1 DMX)	
		65	6600 K	
		66-109	Colour temperature changing 657 8K ->5622 K (22 K/1 DMX)	
		110	5600 K (110=default)	
	18   111-179   Colour temperature changing 5580 K ->4220 K (20 K/1 DMX)			
		180	4200 K	
		181-229	Colour temperature changing 4180 K ->3220 K (20 K/1 DMX)	
		230	3200 K	
		231-254	Colour temperature changing 3180 K ->2720 K (20K /1 DMX)	
		255	2700K	
			Green correction	
		0	Uncorrected white	
	19	1-127	Minus green -> uncorrected white	
		128	Uncorrected white (128=default)	
		129-254	Uncorrected white> Plus green	
		255	Uncorrected white	
			Colour mix control	
			Defines relation between Virtual Colour wheel and colour	
			channels: "Virtual" = Virtual Colour Wheel "Colour mix" = Colour	
			channels (CMY/RGBALight Green/CTC)	
		0-9	Virtual has priority over "Colour mix" (0=default)	
		10-19	Maximum mode (highest values have priority)	
		20-29	Minimum mode (nignest values have priority)	
		30-39	Multiply mode (multiply "Virtual" and "Colour mix")	
	20	40-49	Addition mode ("Virtual" + "Colour mix")	
		50-59	Subtraction mode ("Virtual" - "Colour mix")	
		60-69	Inverted Subtraction mode ("Colour mix"-"Virtual")	
		70-79	White Point Off (CTC+Green Cor.+Virtual Colour Wheel deactivated)	
		70-79 80-128	white Point Off (CIC+Green Cor. +virtual Colour wheel deactivated) Reserved	
		129	Reserved Crossfade "Virtual" only	
		130-254	Crossfade between "Virtual" and "Colour mix"	
		255		
		200	Crossfade "Colour mix" only  Speed of rot. Gobo selection	+
	21	0.055		
		0-255	Speed of rot. gobo selection from max. to min. (0=default)  Rot. Gobo carousel/ Framing	Tomponov: 1
			shutters/Zoom/Focus/Iris/Frost/Prism time	Temporarily ineffective
		0	Function is off (0=default)	
		1-255		
	22	1-255	Time of rot. Gobo carousel movement (0.1 sec->25.5 sec.)	
		1-255	Time of framing shutters, zoom, focus, iris and frost movement	
			(0. 1sec->25. 5 sec.)	
		1-50	Time of prism movement (0.1 sec->5 sec.)	1
			Effect	
		0-19	No function (0=default)	
		20-127	Proportional indexing (73-center)	
	23			
		128-170	Ramping from open to full position (max>min. speed)	
1		171-213	Ramping from open to half position ( max>min. speed)	
		214-255	Ramp. from half position to full position ( max>min. speed)	1

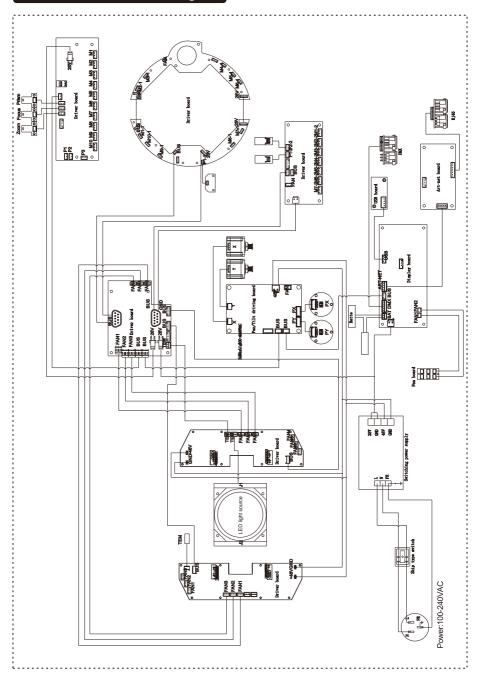
60 Channel	35 Channel	64 Channel	49 Channel	DMX	Function	Note
O OHAIMET	O OHMINGT	OZ GIGILIÐI	TO OHOUMET	Delta.	Effect Rotation	11000
				0	No Function	
24	14	28	24	1-127	Forwards rotation from fast to slow	
				128	No rotation (128=default)	
				129-255	Backwards rotation from fast to slow	
				0-7	Bffect wheel animations No animation (0=default)	
				0 1	Note : Set suitable DMX value at Focus channel to get desired	
					animation. All animations were created at distance of 5 m from screen	
					with zoom=88 DMX, Focus value is different for each effect (focus	
					value is stated in parentheses for this distance)	
					The following channels are blocked: Effect wheel positioning, Effect	
					wheel rotation, Rotating gobo wheel, Rot. Gobo indexing and rotation.	
				8-9	Macro 1 (Focus=94)	
				10-11 12-13	Macro 2 (Focus=95) Macro 3 (Focus=96)	
				12-13	Macro 4 (Focus=97)	
				16-17	Macro 5 (Focus=98)	
				18-19	Macro 6 (Focus=99)	
25	/	29	25	20-21	Macro 7 (Focus=100)	
				22-23	Macro 8 (Focus=101)	
				24-25 26-27	Macro 9 (Focus=102) Macro 10 (Focus=103)	
				28-29	Macro 10 (rocus=103) Macro 11 (Focus=103)	
				30-31	Macro 12 (Focus=103)	
				32-33	Macro 13 (Focus=103)	
				34-35	Macro 14 (Focus=103)	
				36-37	Macro 15 (Focus=103)	
				38-39	Macro 16 (Focus=103)	
				40-41 42-43	Macro 17 (Focus=103) Macro 18 (Focus=103)	
				44-45	Macro 19 (Focus=103)	
				46-47	Macro 20 (Focus=103)	
				48-255	Reserved	
					Rotating gobo wheel	
				0.0	Index - set indexing on channel 27/16/31/27	
				0-3 4-7	Open/hole (0=default) Gobo 1	
				8-11	Gobo 2	
				12-15	Gobo 3	
				16-19	Gobo 4	
				20-23	Gobo 5	
				24-27 28-31	Gobo 6 Gobo 7	
				20 01	Rotation - set rotation on channel 27/16/31/27	
				32-35	Gobo 1	
				36-39	Gobo 2	
				40-43	Gobo 3	
				44-47 48-51	Gobo 4 Gobo 5	
				52-55	Gobo 6	
				56-59	Gobo 7	
					Shaking gobos from slow to fast	
					Index - set indexing on channel 27/16/31/27	
26	15	30	26	60-69 70-79	Gobo 1 Gobo 2	
				70-79 80-89	Gobo 3	
				90-99	Gobo 4	
				100-109	Gobo 5	
				110-119	Gobo 6	
				120-129	Gobo 7	
					Shaking gobos from slow to fast Rotation - set rotation on channel 27/16/31/27	
				130-139	Gobo 1	
				140-149	Gobo 2	
				150-159	Gobo 3	
					Gobo 4	
					Gobo 5	
l	l	l	l	180-189	Gobo 6	

60 Channel	35 Channel	64 Channel	49 Channel	DMX	Function	Note
oo chamer	30 Giainei	Of Chamer	75 CHAINEI	190-199	Gobo 7	Note
				200-201	Open/hole	
					Forwards gobo wheel rotation from fast to slow	
					Stop	
					Auto random gobo selection from fast to slow	
					Rot. gobo indexing and rotation	
					Gobo indexing - set position on channel 26/15/30/26	
				0-255	Gobo indexing (128=default)	
					Gobo rotation - set position on channel 26/15/30/26	
27	16	31	27	0	No rotation	
				1-127	Forwards gobo rotation from fast to slow	
				128	No rotation (128=default)	
				129-255	Backwards gobo rotation from slow to fast	
					Rot. gobo indexing/rotation - fine	
28	/	32	28	0-255	Fine indexing/rotation (0=default)	
					Rotating gobo wheel2	
					Index - set indexing on channel 30/18/34	
				0-3	Open/hole (O=default)	
				4-7	Gobo 1	
				8-11	Gobo 2	
				12-15	Gobo 3	
				16-19	Gobo 4	
				20-23	Gobo 5	
				24-27	Gobo 6	
				28-31	Gobo 7	
					Rotation - set rotation on channel 30/18/34	
				32-35	Gobo 1	
				36-39	Gobo 2	
				40-43	Gobo 3	
				44-47	Gobo 4	
				48-51	Gobo 5	
				52-55	Gobo 6	
				56-59	Gobo 7	
					Shaking gobos from slow to fast	
					Index - set indexing on channel 30/18/34	
29	17	33	/	60-69	Gobo 1	
				70-79	Gobo 2	
				80-89	Gobo 3	
				90-99	Gobo 4	
				100-109	Gobo 5	
				110-119	Gobo 6	
				120-129	Gobo 7	
					Shaking gobos from slow to fast	
					Rotation - set rotation on channel 30/18/34	
					Gobo 1	
				140-149		
					Gobo 3	
					Gobo 4	
					Gobo 5	
					Gobo 6	
				190-199	Gobo 7	
				200-201	Open/hole	
					Forwards gobo wheel rotation from fast to slow	
					Backwards gobo wheel rotation from slow to fast	
					Reserved	
<u> </u>				250-255	Auto random gobo selection from fast to slow	<del> </del>
					Rot. gobo2 indexing and rotation	
				0-255	Gobo indexing - set position on channel 29/17/33 Gobo indexing (128-default)	
				0-255	Gobo rotation - set position on channel 29/17/33	
30	18	34	1	0	No rotation - set position on channel 25/17/33	
					Forwards gobo rotation from fast to slow	
				128 129-255	No rotation (128-default)	
				129-255	Backwards gobo rotation from slow to fast  Rot. gobo2 indexing/rotation - fine	1
31	/	35	1	0-255	Fine indexing/rotation (0=default)	
				U 200	Prism Prism	+
				0-19	Open position - hole (0=default)	
					Rotating prism inserted	
	1		1		·	

60 Channel	35 Channel	64 Channel	49 Channel	DMX	Function	Note
					Prism/gobo macros:	
					The following channels are blocked: Prism, Prism rotation, Rotating gobo	
				128-135	Macro 1	
				136-143	Macro 2	
					Macro 3	
					Macro 4	
32	19	36	29		Macro 5	
	10				Macro 6	
				176-183 184-191	Macro 7 Macro 8	
				192-199	Macro 9	
				200-207	Macro 10	
					Macro 11	
				216-223	Macro 12	
				224-231	Macro 13	
					Macro 14	
					Macro 15	
				248-255	Macro 16	
				0	Prism rotation No Function	
33	20	37	30	1-127	Forwards prism rotation from fast to slow	
	_~			128	No rotation (128=default)	
					Backwards prism rotation from slow to fast	
					Prost	
				0	Open (0=default)	
					Light Frost	
				1-50	Light Frost from 0% to 100%	
					100% Light Frost	
					Pulse closing from slow to fast Pulse opening from fast to slow	
					Ramping from fast to slow	
				84-86	Open	
					Medium Frost	
34	21	38	31	87-136	Medium Frost from 0% to 100%	
34	21	36	31	137-139	100% Medium Frost	
				140-149	Pulse closing from slow to fast	
				150-159	Pulse opening from fast to slow	
				160-169 170-172	Ramping from fast to slow Open	
				170 172	Combined Frost	
				173-222	Medium Frost from 0% to 100%	
					100% Medium Frost	
					Pulse closing from slow to fast	
					Pulse opening from fast to slow	
				246-255	Ramping from fast to slow	
				0	Iris	
				1-179	Open (O=default) From max. diameter to min. diameter	
				180-191	Closed	
					Pulse effects with Iris blackout	
35	22	39	32	192-219	Pulse opening from slow to fast	
					Pulse closing from fast to slow	
					Random pulse opening (fast)	
					Random pulse opening (slow)	
					Random pulse closing (fast)	
				254-255	Random pulse closing (slow)	
36	1	40	33	0-255	Iris - fine  Eine inic meyement (0-defeult)	
				0-255	Fine iris movement (0=default)	
37	23	41	34	0.055	Zoom	
				0-255	Zoom from max. to min.beam angle (128=default)	
38	1	42	35	0.055	ZoomFine	
				0-255	Fine Zoom positioning	
39	24	43	36		Pocus	
- 55		***	30	0-255	Continuous adjustment from far to near (128=default)	
					Focus Fine	
40	1	44	37	0-255		
				U=255	Fine Focus positioning	

60 Channel	35 Channel	64 Channel	49 Channel	DMX	Function	Note
					Framing Rotation	
				0-127	Rotation from right (0°) to 60°	
41	25	45	38	128	Center (128=default)	
				129-255	Rotation from 60° to left (120°)	
42	26	46	39		Framing shutter 1- movement	
42	20	40	39	0-255	Movement from Outward to Inward (0=default)	
43	/	47	,		Framing shutter 1 fine- movement fine	
70		71	,	0-255	Movement from Outward to Inward (0=default)	
					Framing shutter 1- swivelling	
44	27	48	40	0-127	Swivelling towards 0 degrees	
**	21	40	40	128	0 degrees (128=default)	
				0-255	Swivelling from 0 degrees	
					Framing shutter 1 fine- swivelling fine	
				0-127	Swivelling towards 0 degrees	
45	/	49	/	128	0 degrees (128-default)	
				0-255	Swivelling from 0 degrees	
				0 200	Framing shutter 2- movement	
46	28	50	41	0-255	Movement from Outward to Inward (0=default)	
47	/	51	/		Framing shutter 2 fine- movement fine	
		01	,	0-255	Movement from Outward to Inward (0=default)	
				0-127	Freming shutter 2- swivelling Swivelling towards 0 degrees	
48	29	52	42	128	0 degrees (128-default)	
				0-255	Swivelling from 0 degrees	
					Framing shutter 2 fine- swivelling fine	
49	1	53	/	0-127 128	Swivelling towards 0 degrees 0 degrees (128=default)	
				0-255	Swivelling from 0 degrees	
50	30	54	43		Framing shutter 3- movement	
- 00		02	TU TU	0-255	Movement from Outward to Inward (0=default)	
51	/	55	1	0-255	Framing shutter 3 fine- movement fine Movement from Outward to Inward (0=default)	
				0 200	Framing shutter 3- swivelling	
52	31	56	44	0-127	Swivelling towards 0 degrees	
	01	••		128	0 degrees (128=default)	
				0-255	Swivelling from 0 degrees  Praming shutter 3 fine- swivelling fine	
	,		,	0-127	Swivelling towards 0 degrees	
53	/	57	/	128	0 degrees (128=default)	
				0-255	Swivelling from 0 degrees	
54	32	58	45	0-255	Framing shutter 4- movement Movement from Outward to Inward (0=default)	
55	/	59	/		Framing shutter 4 fine- movement fine	
00		09	′	0-255	Movement from Outward to Inward (0=default)	
				0-127	Praming shutter 4- swivelling	
56	33	60	46	128	Swivelling towards 0 degrees 0 degrees (128-default)	
				0-255	Swivelling from 0 degrees	
					Framing shutter 4 fine- swivelling fine	
57	/	61	1	0-127 128	Swivelling towards 0 degrees 0 degrees (128-default)	
				0-255	Swivelling from 0 degrees	
					Shutter/ strobe	
				0-31	Shutter closed	
				32-63 64-95	Shutter open (32=default) Strobe-effect from slow to fast	
				96-127	Shutter open	
58	34	62	47	128-143	Opening pulse in sequences from slow to fast	
				144-159	Closing pulse in sequences from fast to slow	
				160-191 192-223	Shutter open Random strobe-effect from slow to fast	
				192-223 224-255	Nandom strobe-effect from slow to fast Shutter open	
59	35	63	48		Diumer	
09	30	03	*8	0-255	Dimmer intensity from 0% to 100% (0=default)	
60	/	64	49	0-255	Dimmer Fine	
		L	L	u=255	Dimmer Fine	1

# 7.Electrical Connection Diagram



## 8.Troubleshooting

The following are common faults of lamps and corresponding solutions. Faults that cannot be repaired by yourself should be handled by professionally qualified personnel. Disconnect the power supply to the lamp during maintenance!

## The light source is not bright

- Check that a suitable light source is installed for the luminaire.
- Check whether the power supply connection of the lamp or the control switch is in poor contact.
- Check whether the light source has reached the end of its service life or is damaged, and replace it with a high-quality light source of the same specification.
- Measure whether the power supply is insufficient.
- Check whether the light source has not cooled down completely due to abnormal operation. Let the lamp cool down for more than 15 minutes to allow the light source to cool down. After returning to the normal start-up range, turn the power on again and it can be used normally.
- Check whether the DMX512 controller sends a command to turn on the light source.
- Check whether the light source and trigger circuit are disconnected or defective.
- Check whether the wiring terminals on the internal trigger are in poor contact and tighten the plug.
- Check the "Fan Speed and Voltage" in the "Basic Information" menu to see if the speed of

FAN1/FAN2/FAN3 is above 500RPN. If it is below 500RPM, the light source will not light up. Replace the fan with the same specification.

- Check whether the over-temperature protection temperature switch inside the lamp is damaged. Go to the menu "Basic Information" and select "Equipment Temperature" to check - whether the temperature measuring plate shows that the temperature is too high or there is no temperature display.

#### The beam appears dim and uneven

- The light source may have reached the end of its service life and does not emit enough light. Replace it with a light source of the same specification.
- Check whether there is dust accumulated in the optical part and clean it.
- Measure whether the power supply is insufficient.
- Finely adjust the screw device used to change the height of the lamp until the ideal light is achieved. Enter the menu "Service Options" and select "Calibration" to enter color and pattern adjustment, which can be adjusted to the center.

#### The projected image is blurry

- Check whether the DMX512 controller channel value corresponding to the electronic focus system is suitable for the current projection distance.
- Check whether the mechanical part of the focusing system is stuck, remove the dust and add antifreeze and temperature-resistant lubricating oil.

## The light source of the lamp works intermittently

- Check whether the fan is running normally or is blocked by dust and paper debris.
- Check whether the inlet and outlet cooling air vents are blocked by dust.
- Check whether the lamp has reached the end of its service life.
- Check whether the power supply is insufficient, and whether the power switch and wiring are in poor contact or aging.
- Check whether the over-temperature protection temperature switch inside the lamp is damaged.

## Although it emits light, the lamp does not accept instructions from the controller

- Check whether the digital start address value and function options of the lamp are correct.
- Check whether the connection of the communication control line is correct. The communication line is too long or has been interrupted.
- Check whether the control equipment fails and whether the signal amplifier connected in series fails.
- Check whether the communication line is too long or if other devices interfere with each other.
- Optimize wiring, shorten the length of control signal lines, and route high-voltage and low-voltage lines separately
- Add signal amplifier isolator.
- The signal line is made of high-quality shielded twisted pair (impedance characteristic is  $75\Omega$ ), and the signal terminal resistor is connected at the end of the lamp.
- Check that the circuit board communication IC or CPU is burned out because the bulb performs an abnormal operation when it is not completely cooled, causing the instantaneous ultra-high voltage leakage generated by the trigger, and replace the PCB board.

#### The lamp cannot be started

- Check whether the power supply parameters match the lamps.
- Check whether the fuse at the light fixture's power input is blown.
- Check that the lamp has poor contact or falls off due to extrusion deformation, vibration of internal parts, moisture, etc. during long-distance transportation.
- Check whether the internal wires and connectors of the lamp are desoldered or loose.
- Check whether the electrical components of the lamp (such as power switch, transformer, ballast, capacitor, varistor, filter, power supply PCB board, motor control PCB board, etc.) are loose, short-circuited, burned out, etc.

## Some functions of the lamp cannot accept controller instructions

- Check whether the control device sends correct action instructions for these functions.
- Check whether the mechanical parts corresponding to these functions are loose or deformed.
- Check whether the motor sockets corresponding to these functions are loose or the corresponding driver chips are burned out.
- Check whether the motor wires corresponding to these functions are broken at the corners.
- Check whether the motors corresponding to these functions are damaged.

## During operation, the x or Y direction of the lamp does not move normally

- Click the previous step to check one by one.
- Check whether the corresponding drive belts in the X and Y directions of the lamp are detached or broken.
- Check whether the data feedback receiver (photoelectric sensor) corresponding to the X and Y directions in the lamp is damaged.
- Restart the computer and reset it once.

## 9. Fixture Cleaning

It is absolutely essential that the fixture is kept clean to ensure the maximum light-output and allow the fixture to function reliably throughout its life. The fixture must be cleaned regularly to avoid dust, dirt and smoke-fluid residues building up on or within the fixture. The cleaning frequency depends on the application environment. Clean the fixture immediately if the dust enters it to avoid damage to the optical lens due to excessive dust.

- \* A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should solvents be used.
- \* Always dry the parts carefully.
- \* Clean the external optical lens at least every 20 days and the internal optical lens every 30 days.

## CAUTION!!!

Disconnect from mains before starting maintenance operation.

# 10.Duty exonerative and copyright protectio

- \* Light source belongs to consumption products, not within the scope of warranty.
- \* The manufacturer shall not bear any responsibility for any damage caused by failure to operate in accordance with this instruction.
- \* All the information in this manual shall be interpreted by the manufacturer.
- \* All the information in this manual shall not be copied without permission.
- \* The data contained in this statement are subject to change in the future without prior notice.