



MAIN FEATURES:

- 37x40W RGB+ W LED
- 4° to 55° motorized linea zoom
- Ip20 f

TECHNICAL SPECIFICATIONS:

LIGHT SOURCE

- Source 37x40W RGB+ W LED
- Source life expectancy: 50.000h

OPTICS

- Zoom: 4° - 55° Motorized linear zoom
- Lens type: honeycomb gapless plano - convex optics
- Colour system
- Colour mixing: RGBW
- CCT - CCT Control, +/- Green correction, tungsten emulation
- White preset: 2500K - 1000K

DYNAMIC EFFECTS

- Control resolution: 16-Bit dimmer
- Special features: linear crossfade channel from any white to any colour; virtual CTO on colour

BODY

- Body: Plastic IP20 construction
- Body Colour: Black

CONTROL

- Protocols: DMX512
- DMX channels: 21/22/35/36/111/148 Channel
- RDM for remote monitoring and settings
- Display LCD high resolution colour display

CONTROL

- Dimmer: Linear 0 - 100% electronic dimmer
- Dimmer curves: 4 selectable dimming modes available
- Strobe / shutter: 1 - 25 Hz electronic
- Operating temperature: 0°C / +45° C
- LED control: flickerfree operationg

ELECTRICAL

- Mains power supply: 100-240V 50/60Hz
- Max power consumption: 1480W

OTHER SPECIFICATION

- For Outdoor and Indoor installations
- Cooling: Active, silent operation
- Signal connection: 3 Pin DMX
- Power connection: Powercon In/Out
- Dimensions (WxHxD) 670x590x420 mm
- Weight: 24,7 KG

CERTIFICATIONS

- Certifications / approvals : CEE, UKCA, RCM

DMX CHANNEL MODE

21/22/35/36 CH mode

21CH	22CH	35CH	36CH	Function	DMX Value	Function
1	1	1	1	Red	0-255	Red
2	2	2	2	Red fine	0-255	Red fine
3	3	3	3	Green	0-255	Green
4	4	4	4	Green fine	0-255	Green fine
5	5	5	5	Blue	0-255	Blue
6	6	6	6	Blue fine	0-255	Blue fine
7	7	7	7	White	0-255	White
8	8	8	8	White fine	0-255	White fine
9	9	9	9	CTO	0-255	CTO
10	10	10	10	Macro color	0-255	Macro color
11	11	11	11	Strobe	0 - 3	Close
					4 - 103	Rule Strobe,slow to fast
					104 - 107	Open
					108 - 207	Pulse Strobe,slow to fast
					208 - 212	Open
					213 - 225	Random Strob Slow Speed
					226 - 238	Random Strob Middle Speed
					239 - 251	Random Strob Fast Speed
					252 - 255	Open
12	12	12	12	Dimmer	0-255	Dimmer
13	13	13	13	Dimmer fine	0-255	Dimmer fine
14	14	14	14	Pan	0-255	Pan
15	15	15	15	Pan fine	0-255	Pan fine
16	16	16	16	Tilt	0-255	Tilt
17	17	17	17	Tilt fine	0-255	Tilt fine
18	18	18	18	Function	0-255	Function
19	19	19	19	Reset	0-199	Empty
					200-205	Reset (after 5 second)
					206-255	Empty
20	20	20	20	Zoom	0-255	Zoom
21	21	21	21	Zoom Rotation	0-255	Zoom Rotation
		22	22	Shape Selection	0-255	Shape Selection
		23	23	Shape Fade	0-255	Shape Fade
		24	24	Shape Speed	0-255	Shape Speed
		25	25	Shape Red	0-255	Shape Red
		26	26	Shape Green	0-255	Shape Green
		27	27	Shape Blue	0-255	Shape Blue

		28	28	Shape White	0-255	Shape White
		29	29	Shape Dimmer	0-255	Shape Dimmer
		30	30	Background Dimmer	0-255	Background Dimmer
		31	31	Shape Transition	0-255	Shape Transition
		32	32	Shape Offset	0-255	Shape Offset
		33	33	Foreground Strobe	0-4	Close
					5-103	Rule Strobe,slow to fast
					104-107	Open
					108-207	Pulse Strobe,slow to fast
					208-255	Open
		34	34	Background Strobe	0-4	Close
					5-103	Rule Strobe,slow to fast
					104-107	Open
					108-207	Pulse Strobe,slow to fast
					208-255	Open
		35	35	Background Select	0-255	Background Select
	22		36	Frequency	0-255	Frequency

Please pay attention :

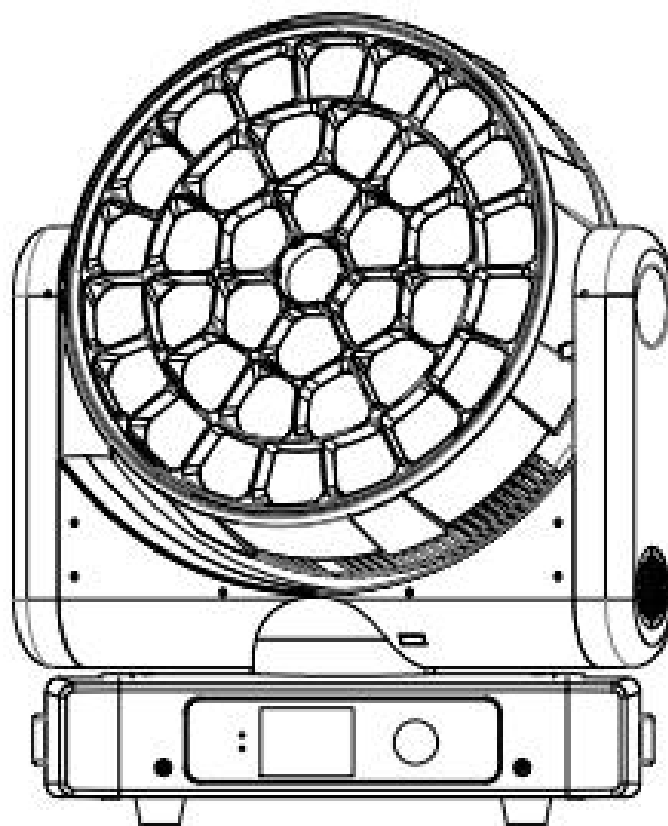
111/148CH Operation description: Channel mode select 21 channels, the value of the 18th channel set to Value 103-105, then you can proceed to the next operation!

111/148 CH mode

111CH	148CH	Function	DMX Value	Function
1	1	Red	0-255	Red
2	2	Red fine	0-255	Red fine
3	3	Green	0-255	Green
4	4	Green fine	0-255	Green fine
5	5	Blue	0-255	Blue
6	6	Blue fine	0-255	Blue fine
7	7	White	0-255	White
8	8	White fine	0-255	White fine
9	9	CTO	0-255	CTO
10	10	Macro color	0-255	Macro color
11	11	Strobe	0 - 3	Close
			4 - 103	Rule Strobe,slow to fast
			104 - 107	Open
			108 - 207	Pulse Strobe,slow to fast
			208 - 212	Open

			213 - 225	Random Strob Slow Speed
			226 - 238	Random Strob Middle Speed
			239 - 251	Random Strob Fast Speed
			252 - 255	Open
12	12	Dimmer	0-255	0-100 Dimmer
13	13	Dimmer fine	0-255	Dimmer fine
14	14	Pan	0-255	Pan
15	15	Pan fine	0-255	Pan fine
16	16	Tilt	0-255	Tilt
17	17	Tilt fine	0-255	Tilt fine
18	18	Function	0-255	Function
19	19	Reset	0-199	Reset
			200-205	
			206-255	
20	20	Zoom	0-255	Zoom
21	21	Zoom Rotation	0-255	Zoom Rotation
22	22	Red1	0-255	Red1
23	23	Green1	0-255	Green1
24	24	Blue1	0-255	Blue1
...	25	White1	0-255	White1
...	...	...	...	...
109	145	Red37	0-255	Red37
110	146	Green37	0-255	Green37
111	147	Blue37	0-255	Blue37
	148	White37	0-255	White37

CRYSTALL 37 **ARMONY**light



User Manual

CE

Operational Manual

Thank you for purchasing this product. To take full advantage of all possibilities and for your own safety, please read this operating instructions very carefully before you start using this unit.

BEFORE USE

- z Before you start using this unit, please check if there is no transportation damage. Should there be any, do not use the device and consult your dealer first.
- z This device has left our factory in absolutely perfect condition and well packed. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.
- z The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.
- z Please consider that damages caused by manual modifications to the device are not subject to warranty.

SAFETY INSTRUCTIONS

Caution: To reduce the risk of electric shock, do not remove the top cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.



Risk of electric shot!



Read the manual



Unplug the mains power before remove the housing



Indoor use ONLY

Caution: Do not stare at operating lamp. May be harmful to the eye.

- z To protect the environment, please try to recycle the packing material as much as possible.

- z To prevent fire or shock hazard,do not expose this appliance to rain or moisture.
- z This unit is for indoor use only.
- z Don't place metal objects or spill liquid inside the unit.Electric shot or malfunction may result.If a foreign object enters the unit,immediately disconnect the mains power.
- z Locate the fixture in a well ventilated spot, away from any flammable materials and/or liquids.The fixture must be fixed at least 50cm from surrounding walls.
- z Don't cover any ventilation openings as this may result in overheating.
- z Prevent use in dusty environments and clean the unit regularly.
- z Keep the unit away from children.
- z Inexperienced persons should not operate this device.
- z Maximum safe ambient temperature is 40°C.Don't use this unit at higher ambient temperatures.
- z Allow the device about 10 minutes to cool down before servicing.
- z The electrical installation should be carried out by qualified person only,according to the regulations for electric and mechanical safety in your country.
- z Check that the available voltage is not higher than the one stated in the unit.
- z The power cord should always be in perfect condition.Switch the unit immediately off when the power cord is squashed or damaged.It must be replaced by the manufacturer,its service agent or similarly qualified persons in order to avoid a hazard.
- z Never led the power-cord come into contact with other cables!
- z Don't connect the unit to any dimer pack.
- z In order to prevent electric shot,do not open the cover.There are no user serviceable parts inside.
- z The housing and lenses must be replaced if they are invisibly damaged.
- z Never repair a fuse or bypass the fuse holder.Always replace a damaged fuse with a fuse of the same type and electrical specifications!
- z Due to safety reasons,it is prohibited to make unauthorized modifications to the unit.

Important:Never look directly into the light source!Don't use the effect in the presence of persons suffering from epilepsy.

Mounting and Installation

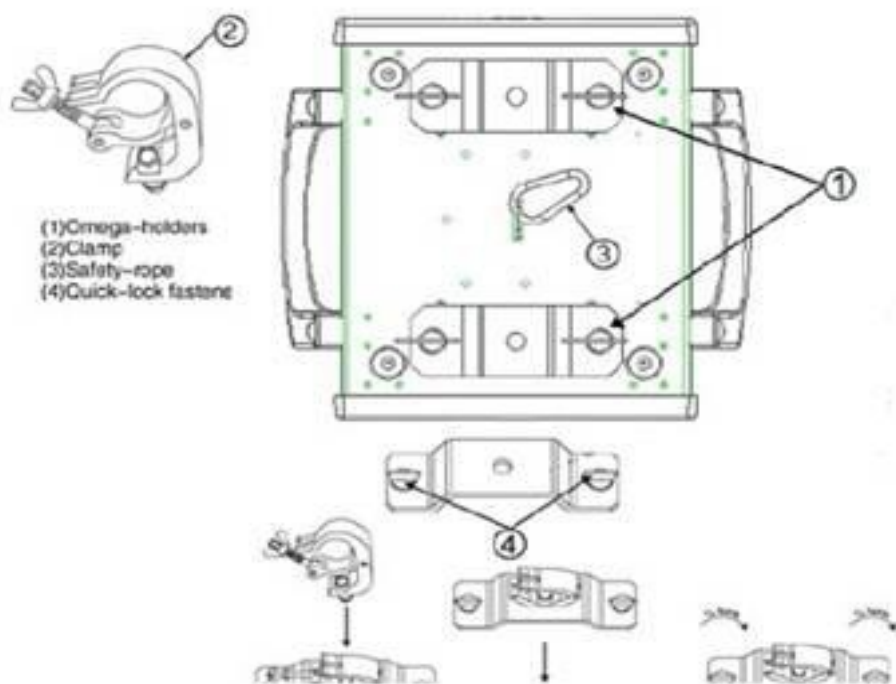
Important:Fixtures must be installed by a Qualified electrician in accordance with all national and local electrical and construction codes and regulations.

Overhead Rigging

- z For overhead installation, the fixture must be always secured with a safety wire that can bear at least 10 times the weight of the fixture.
- z Make sure the area below the installation is free from unwanted persons during rigging, and servicing.
- z Locate the fixture in a well ventilated spot, far away from any flammable materials and/or liquids. The fixture must be fixed at least 50cm from surrounding walls.
- z The device must be installed out of reach of people in outside areas where persons may walk by or be seated.
- z Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.
- z Always use and install the supplied safety cable as a safety measure to prevent accidental damage and /or injury in the event the clamp fails.
- z The fixture should be well fixed, a free-swinging mounting is dangerous and may not be considered!

Clamp Mounting :

The LED moving head provides a unique mounting bracket assembly that integrates the bottom of the base, the included 'omega bracket' (see the following pic) and the safety cable rigging point in one unit. When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the 'omega bracket'. As an added safety measure be sure to attach at least one properly rated safety cable to the fixture using one of the safety cable rigging points integrated in the base assembly.

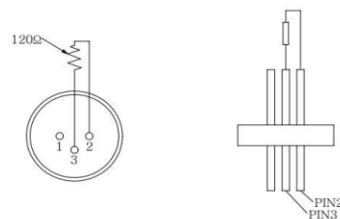


Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.



DMX-512 Connection with DMX Terminator

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.



How to Set up this Unit

1. [MIC]: micro phone for sound mode
2. [MENU]: press this button to go back to the main menu or to leave sub-menu
3. [▼]:press this button to go down in the menu
4. [▲]:press this button to go up in the menu
5. [Enter]:press this button to confirm the selected function in the menu
6. [Display]:shows the information on the different modes and functions
7. [SOUND SENSITIVITY CONTROL]:To adjust the sensitivity of the sound mode
8. [NETWORK INTERFACE]: DMX512 network interface(Optional)
9. [DMX IN]:3p XLR Male connector to receive DMX data from a console or use in Master/slave modes
10. [DMX OUT]:3 pin XLR Female connector to connect other projectors or use in Master/slave modes
11. [POWER IN]:with IEC socket and integrated fuse holder,connect the supplied mains cable here
12. [FUSE]:Protecting the safety operation of circuit
- 13.[FAN]:for cooling the electronic components in the base of the machine

Technical Specifications

Input power:AC100-240V 50/60 Hz

Power consumption:1560watt(max)

Light source: 37 x 40W RGBW LED

Average lifespan: 50000h

Control mode: DMX512, RDM, master-slave mode, Soundmode

Channel mode: 21/22/35/36/111/148CH

Movement:Pan/Tilt:X axis 540°, Y axis 270°

Optical system: high-precision integrated structure lens, high transmittance quartz glass rod+PMMA lens

ZOOM angel:4-55 °

Beam : Outstanding small angle beam effect

Wash : evenly spread light at medium to large angles

Color: RGBW color mixing system, uniform color mixing without flicker, fast color rainbow effect

Adjustable color temperature: 2500-10000K

Effect macros: static effect macro function and dynamic effect macro function

Strobe: 1K-25Hz

Dimming: Electronic dimming, four dimming curves, two dimming modes

Zoom system: linear electric zoom

Lens rotation: Optical lens with 360 ° infinite rotation, automatic error correction function for rotation,

variable kaleidoscope, small waist and other effects

Single point control: The light source supports individual independent control and color transformation

Display screen: 2.80 inch LCD screen

Intelligent control: Through the lighting menu, device usage and lighting time, device temperature can be queried

Channel data and software version failure information

Temperature control: Intelligent temperature control, capable of automatically adjusting the speed of the cooling fan and overheating protection, with three fan modes

Software upgrade: Upload upgrade files through DMX

Shell material: Fireproof plastic

IP20

Packaging size:67*59*42cm

Net weight: 24.7kg

Gross weight: 30.7KG

Menu Function

3740BEE EYE MENU TABLE			
Main Menu	Second	Third	Fourth
Dmx Address	000 - 512		
Fixture	Dmx Mode	21CH/22CH/35CH/36CH/111CH/148CH	
	Run Mode	DMX / Host / Sound	
	Pan Invert	Close / Open	

	Tilt Invert	Close / Open	
	No Dmx Signal	Clear / Hold	
	Fan Control	Auto / Client / High	
	Sound Sensitivity	00 -- 99	
Manual	Pan	000 - 255	
	Pan Fine	000 - 255	
	Tilt	000 - 255	
	Tilt Fine	000 - 255	
	⋮	⋮	
Information	Time	Current Time	xxxH
		Total Time	xxxH
		Power Count	xxxx
	Sensor	All Sensors are ok! / Pan、Tilt、Zoom.....	
	Temperature	Head Temp	xxxC
	Software Version	Panel	Vx.xx
		Motor	Vx.xx
		Dimmer1	Vx.xx
Factory	Password	000 - 255	
	Pan	000 - 255	
	Tilt	000 - 255	
	Zoom	000 - 255	
	Zoom Rotation	000 - 255	
	Red	000 - 255	
	Green	000 - 255	
	Blue	000 - 255	
	White	000 - 255	
Fixture Reset	Motor Reset	Cance / Run	
	Factory	Cance / Run	
Display	Language	CH / EN	
	Display Flip	Normal / Reverse	
	Display Mode	60s / Show	

Maintenance

DANGER !

Disconnect from the mains before starting any maintenance work.

- z Make sure the area below is free from any unwanted persons during servicing.
- z Switch off the unit, unplug the mains cable and wait until the unit is cool down.

During inspection the following points should be checked:

- z All screws used for installing the device and any of its parts should be tightly fastened and may not be corroded.
- z Housing, fixations and installations spots (ceiling, truss, suspensions) should be totally free from any deformation.
- z When an optical lens is visibly damaged due to cracks or deep scratches, it must be replaced.
- z The mains cables must be in impeccable condition and should be replaced immediately when even a small problem is detected.
- z In order to protect the device from overheating the cooling fans (if any) and ventilation opening should be cleaned monthly.
- z The interior of the device should be cleaned annually using a vacuum cleaner or air-jet.
- z The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics.
- z Clean with a soft cloth using normal glass cleaning products.
- z Always dry the parts carefully.
- z Clean the external optics at least every 30 days.
- z Clean the internal optics at least every 90 days.

Important: we strongly recommend internal cleaning to be carried out by qualified personnel!