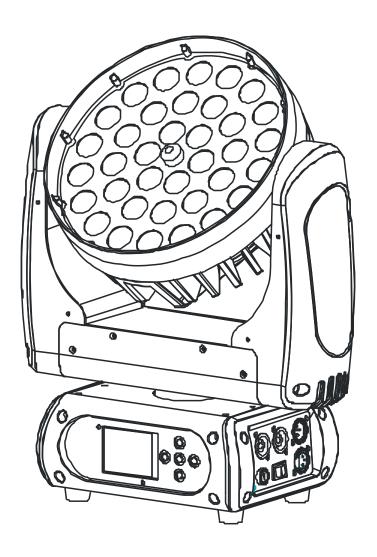
LED ZOOM HEAD USERS GUIDE



((

1. Product Introduction:

- 1.1 Before unpack the fixture, pls make sure that the packing is in good condition, following items will be found in the box:
- -The fixture
- -This users guide
- -3m DMX cable
- -1.5m power cable with powercon
- -Omega bracket for hanging installation
- -Safety chain

1.2 Specification

Source

Light source: 36pcs 10W 4in1 leds

Led life: 60.000 hours

Luminous Flux: 3200lumen, <u>7241lux@2.5m</u> at 13°, <u>795lux@2.5m</u> at 60°

Control: Remote on/off via DMX

Ballast: switching mode power supply

Optical System

Beam angle: 13° to 60°

X/Y

- Pan: 630° (2.5.0 sec) or 540°(2 sec), Tilt: 265° (1.8 sec)
- 16-bit resolution
- Auto repositioning

Features

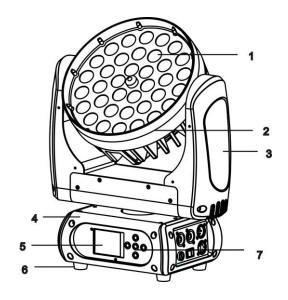
- DMX channels: 16/24/15/17
- Super fast, smooth and silent movement
- RGBW four colors mixing to create vivid, saturated and uniform color effect
- Pre-set color temperature at 2700K, 3200K, 4200K, 5600K and 8000K
- zoom from 13° to 60°
- Full range 0-100% dimmer
- Various strobe
- Software upgrade via DMX
- Hibernation when lost DMX for preset time
- Indicate temperature info of base, arm and lamp
- Fan speed auto change according to temperature

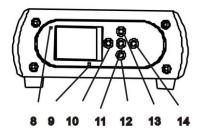
Display

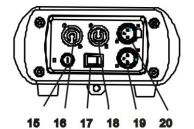
- 2.4inch super nice LCD display with friendly English/ Chinese/French/Spanish menu
- Auto lock
- Flip
- Back-up communicating IC

1.3 Description of the Device

- 1. Project lens
- 2. Head
- 3. Arm
- 4. Base
- 5. Display
- 6. Foot stand
- 7. Operation button







- 8. Wireless indicator
- 9. Mic
- 10. Left button
- 11. Enter button
- 12. Down button
- 13. Up button
- 14. Right button
- 15. Fuse holder
- 16. Powercon in
- 17. Power switch
- 18. Powercon out
- 19. 3-pin DMX out
- 20. 3-pin DMX in

2. Safety and maintenance Information

2.1 Safety Info

2.1 Salety IIIIO	
	Before operate this unit, please carefully read this users guide and keep if needed in future. It's necessary to respect following rules.
X	The disposal of the device after lifecycle could damage the environment, need to take it to special company for recycling or return to authorized dealer.
(€	The products referred to in this manual conform to the European Community Directives and are therefore marked with CE logo.
	Keep this device away from children and unauthorized users, the manufacturer will not take responsibility for the damage due to any disregard of the information provided in this manual and wrong operation.
<u> </u>	Before operate the device, pls make sure the fixture is in good housing, ensure pan and tilt can rotate in its complete range.
□0.5m	Pls make sure minimal 0.5m distance need to kept between the fixture to any flammable material.

	The device can only run with 100-240v voltage, 50/60Hz power, don't connect to any other wrong
	power. Disconnect the device from main power before open the shield or maintenance.
^7	The device is designed only for indoor usage, pls keep it away from moisture. Do not expose the
	device under the sun or directly to any other lighting source.
	Never look directly into the projecting lens when the fixture is power on, the light may trigger
	epileptic seizures in photosensitive persons or persons with epilepsy. Especially at beam effect,
*	extreme caution and observance of these safety instructions is mandatory.
	Don't put or install the device on a surface that subject to vibration or bumps.
T45°C	The device is supposed to work in the temperate range -15° C and +45° C, do not use the device
Ta=4 5℃	when the temperate exceed this range.
	The lens, shield need to be replaced when obviously broken, never use the device when the shield is
12354 - [M.]	not completed closed.
	Safety I class device, need to be earth connected.
	When the fixture is hanged overhead, the safety rope must be fixed to the bottom of the device to
	the appropriate fixing point.
	Always carry the device by the handles, do not take the head or arm directly for transportation.

2.2 Maintenance

- 2.2.1 Operation only allowed to qualified person, damages due to unprofessional operation or remove of any parts inside will not be considered in warranty service. There are no serviceable parts inside the device or package, service only leaves to authorized dealers.
- 2.2.3 Never allow the optical components contact with oil, fat or any other liquid.
- 2.2.4 A regular clearance of the device is needed for long-term usage, this is very helpful to maintain the lifetime and brightness need to use a soft and lint-free cloth to clean the optical system, fan and air flowing tunnel.

2.2.5. Trouble Shooting

Problems	Possible reasons	Checking or solutions
Device not power up	Powercon or power cable damaged	Change a good power cable to try
	Faulty power supply	Replace new power supply
Pan/Tilt error or vibrate	Faulty Pan/Tilt PCB	Replace PT001 PCB
	Faulty opto sensor	Replace opto sensor OP001
	Cable loosen	Check the cable connect to OP001
LED off	Temperature protection	Check the temperature from menu
	Fan not working	Check the fan speed info from menu
	Faulty LED	Replace new LED
	Dimmer and strobe set at 0	Set dimmer and strobe channel at 255
	Faulty power supply	Replace new power supply
Device not response to DMX	Faulty communication IC	Replace the IC with back-up one in the display PCB
	Faulty display PCB	Replace new display PCB
	Wrong DMX addressing	Check the address and setting
	Faulty DMX cable	Change to a good DMX cable

2.2.6 Replacement of the fuse

Need to replace with same type and rating, which originally installed in the device.

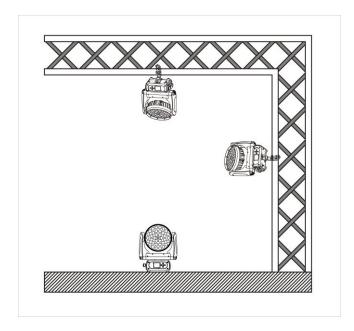
Step One: Unplug power cable from main power.

Step Two: Unscrew the fuse holder out of the housing with a screwdriver.

Step Three: Remove the broken fuse and replace with an exact same type of new fuse.

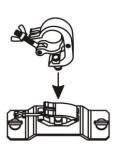
Step Four: Insert the fuse holder back to the housing and screw tight and reconnect power.

3. Installation

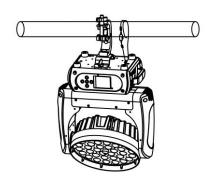


- 3.1 The device could be either put on a solid and even surface, or mounted upside down or sideways like left picture.
- 3.2 The mounting place must be sufficient stable and be able to support a weight of 10 times of the unit's weight. When the fixture is hanged, always additionally secure the device with the safety chain, fasten the safety rope at a suitable position so that the maximum fall of the projector will be 20 cm

3.3 How to do mounting installation.







Step one: Installation the clamp onto the omega bracket;

Step two: Install the clamp and bracket on the bottom of panel, fasten the quick-locks;

Step three: Install the whole device onto appropriate truss and fasten the clamps, tight the safety rope with the truss or other fixing point at a suitable position that drop down distance not exceed 20 cm.

4. Control menu

4.1 Meaning of the icon in menu

CONNECT	LIGHT	INFOMATION	SET	PROGRAM
		j		

4.2 Menu tree

Default setting shadowed. mark with ①can be basic reloaded, ② be program reloaded, ③can be private reloaded.

Con	DMX Address①	xxx		DMX address setting				
Light	Max Temperature ①	80~139°C,90°C /176~283	80~139°C, 90°C /176~282°F, 194°F			Lamp off if temperature continuously over for 5 minutes		
	Lamp Adjust①	PAN		Adjust value of each channels				
	Time Info.	Current XXXX(Hou Fixture Life XXXX(Hours	•	Fixture boot time Fixture total run time				
	Temperature	Near Lamp Temp (depe	ends on fixture)	Temperature Sensors				
_	Fans Speed	Near Lamp Fan (depend	ds on fixture)	Fan speed Sensors				
Information	Channel Value	PAN		Display value of channel				
orn	Error Message	Pan,Tilt		Error channels				
Infc	Fixture Model	xxxxxxxxxx		Display model brand and model				
	Software Ver	1U01 V1.0.00 2U01 V1.0.00 :		Version of each IC				
	Reset	All Pan&Tilt Others		Reset all Reset Pan&Tilt Reset Others				
	Movement	Pan Reverse① Tilt Reverse① Pan Degree① Encoders① Pan/Tilt Mode①	ON/OFF ON/OFF 630/540 ON/OFF Stand/Smooth	Pan Reverse Tilt Reverse Choose Pan Degree Encoder wheel on/off Choose pan/tilt mode				
Set	UI Set	Mic Sens. ③ No Signal① Temperature. C/F① Fans Mode① Hibernation① Backlight① Flip Display① Display Bright③ Brand Show① Key Lock①	0~99%,60% Close/Hold/Auto/Music Fahrenheit /Celsius Auto Speed /High Speed OFF, 01M~99M, 15M 02~60m 02m ON/OFF 00~31 10 ON/OFF ON/OFF	Sensitivity of Mic Mode when no signal Temperature at °C/°F Fans mode Sleeping mode Show backlight time Display 180° reverse Display Brightness Show brand or not Key lock on/off				

		Language①		En/简/	繁/Fr/Sp	Language Select
	Users	User Mode①		Standard	d	Standard mode
				Extende	d	Extended mode
				Basic-8b	oit	Basic-8bit mode
				Basic-16	bit	Basic-16bit mode
				User		User program mode
		Edit User③		Max Cha	annel = XX	Edit users mode
				PAN = C	H01	
				:		
	Calibration ③	-Password-		=XXX		Password: 050
		Pan		=XXX		Calibrate channel value
	Fixture ID③	Name				Name
		-Password-				Password: 050
		PID Code				Set PID of RDM
	Reload Default	Basic Reload(①)	_	ON/OFF		Basic Reload
		Program Reload(2)	ON/OFF		Program Reload
		Password		XXX		Password: 050
		Private Reload(③))	ON/OFF		Private Reload
		All Reload		ON/OFF		All Reload
	Play①	DMX Receive				DMX Receive
		Slave Receive		Receive 1,	2,3	Choose slave position
		Sequence		r / Alone		Run Sequence
	6 1 1 6	Music		r / Alone		Music mode
	Select Chase2	Chase Part 1	Chase		ase 1	Select and run auto
		Chase Part 2	Chase Chase		ase 2	program
	Edit Chase②	Chase Part 3			nase 3	Toot
Program	Edit Chase 2	Chase 1	Chase Step 0		-5Cvav	Test Beginning scene
gr		: Chase 8	Step 6		=SCxxx =SCxxx	Ending scene
Pro	F-1:4 C		· ·			
	Edit Scenes②	Edit Scene 001 ~ Edit Scene	Pan,Ti	Time	=XXX	Input manual scene
		250		e Time	=XXX	Modify manually fading time
		230	DMX I		=xxx	Modify manually scene
			ו אואום	πρατ		time
						Input scene from
						exterior controller
	Scenes Record	ScXX=>ScXX	I.		<u> </u>	Auto Input scenes

5. DMX connection and DMX protocol

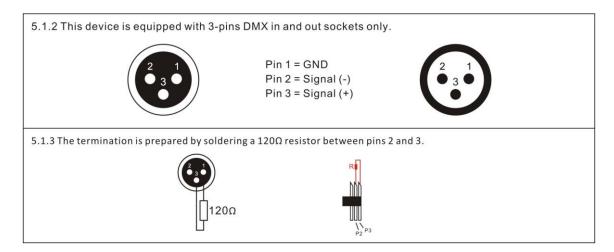
5.1 DMX addressing:

5.1.1 The device is controlled by universal DMX 512 protocol, DMX address is the start channel used to receive

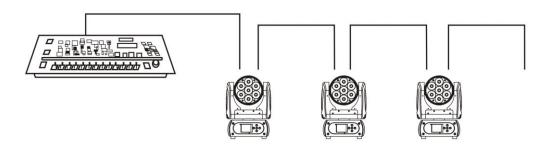
instructions from the external controller. For independent control, each fixture must be assigned its unique address control channels. For example, this device has four channel modes: 16/24/15/17, if we set the mode at standard 16 channels mode, and there are several models need to be independently controlled, we just simply address first fixture at 1, and second fixture at 17, third one at 33, etc.

If the devices have the same address, they will behave synchronically.

DMX addressing is limited, don't set the address so high that without enough control channels for the fixtures. Display is flashing when no DMX signal is received.



5.1.4 Connection: us DMX cable with 3-pin XLR-plugs to connect the controller with the fixture or one fixture with another.



5.2 DMX chart

	Ch	annel		name	function	Min DMX	Max DMX
St	Ex	Ba1	Ba2			DIVIX	DIVIX
1	1	1	1	Pan	Pan Coarse	0	255
	2		2	Pan fine	Pan Fine	0	255
2	3	2	3	Tilt	Tilt Coarse	0	255
	4		4	Tilt fine	Tilt Fine	0	255
3	5	3	5	Movment Speed	fastest to Slowest	0	255
4	6	4	6	Movment	Normal	0	15
4	O	4	O	Function	Movement With Backout	16	31

				Pan Forward Spin	32	47
				Pan Reverse Spin	48	63
				Tilt Forward Spin	64	79
				Tilt Reverse Spin	80	95
				Pan&Tilt Forward Spin	96	111
				Pan&Tilt Reverse Spin	112	127
				Pan Forward Spin & Tilt Reverse Spin	128	143
				Pan Reverse Spin & Tilt Forward Spin	144	159
				TBD	160	255
				Normal Shutter Functions	0	15
				Pulse-effect Forward	16	31
5 7	7		Shutter	Pulse-effect Reverse	32	47
			Function	Random Strobe	48	63
				TBD	64	255
				Normal Shutter Functions		
				Close	0	31
				Strobe Rate (slow to fast)	32	223
				Open	224	255
				Pulse-effect Forward		
				Close	0	31
				Strobe Rate (slow to fast)	32	223
				Open	224	255
6 8	8		Shutter	Pulse-effect Reverse		
				Close	0	31
				Strobe Rate (slow to fast)	32	223
				Open	224	255
				Random Strobe		
				Close	0	31
				Strobe Rate (slow to fast)	32	223
				Open	224	255
				Shutter closed	0	31
				No function (shutter open)	32	63
				Strobe effect slow to fast	64	95
		_ .	7 Ch++	No function (shutter open)	96	127
	;	5 1	7 Shutter	Pulse-effect in sequences	128	159
				No function (shutter open)	160	191
				Random strobe effect slow to fast	192	223
				No function (shutter open)	224	255
7 9	9 (5 8	3 Dimmer	Dimmer(0->100%)	0	255
1	10		Dimmer fine	Dimmer fine control	0	255
				On Function	0	15
			Virtual	CTC Function	16	31
8 1	11 7	7 9	9 Color	Forward Spin	32	47
1 1			Function	Reverse Spin	48	63
			Tanction	Reverse Spin	70	03

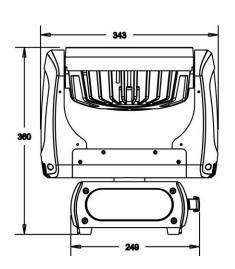
					Color Bounce	80	111
					TBD	112	255
					CTC Function		
					Colour Temperature Correction 2000K->2700K	0	223
					White 3200K	224	231
					White 4200K	232	239
					White 5600K	240	247
					White 8000K	248	255
					Forward Spin		
					Rainbow Effect (Slow->Fast)	0	255
					Reverse Spin		
					Rainbow Effect (Slow->Fast)	0	255
				Virtual	Continuous&Color Bounce		
9	12	8	10	Color1	Black	0	0
					Red	1	1
					Green	2	2
					Blue	3	3
					White	4	4
					Red=0, Green->up,Blue=full,White=0	5	46
					Red=0, Green=full,Blue->down,White=0	47	88
					Red->up, Green=full,Blue=0,White=0	89	130
					Red=full, Green->down,Blue=0,White=0	131	172
					Red=full, Green=0,Blue->up,White=0	173	214
					Red->down, Green=0,Blue=full,White=0	215	255
					Color Bounce		
					Black	0	0
					Red	1	1
					Green	2	2
				Virtual	Blue	3	3
				Color2(Only	White	4	4
10	13	9	11	On Color	Red=0, Green->up,Blue=full,White=0	5	46
				Bounce)	Red=0, Green=full,Blue->down,White=0	47	88
				•	Red->up, Green=full,Blue=0,White=0	89	130
					Red=full, Green->down,Blue=0,White=0	131	172
					Red=full, Green=0,Blue->up,White=0	173	214
					Red->down, Green=0,Blue=full,White=0	215	255
11	14	10	12	Red	Red 0->100%	0	255
	15			Red fine	Red fine control	0	255
12	16	11	13	Green	Green 0->100%	0	255
	17			Green fine	Green fine control	0	255
13	18	12	14	Blue	Blue 0->100%	0	255
	19			Blue fine	Blue fine control	0	255
14	20	13	15	White	White 0->100%	0	255
	21			White fine	White fine control	0	255
15	22	14	16	Zoom	small angle -> Big angle	0	255
	23			Zoom fine	Zoome fine control	0	255

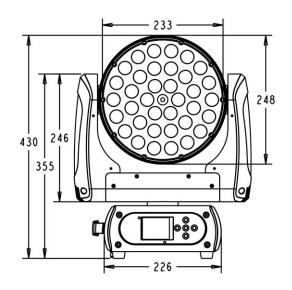
					Normal	0	7
					Reset All	8	15
					Pan&Tilt Reset	16	23
					TBD	24	47
					Other Reset	48	55
16	24	15	17	Control	Display Off	56	63
					Display On	64	71
					TBD	72	79
					TBD	80	87
					Hibernation	88	95
					TBD	96	255

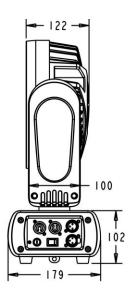
6. Unique Features

- 6.1 RDM, stand for "Remote Device Management", with this function, users can realize remote control of the device, such as remotely changing DMX address, reverse pan/tilt setting, check a lot of useful information such as temperature, power consumption, fan speed. Etc. Every single device has a unique RDM code before left factory to distinguish from each other, usually not suggest users change this code freely.
- 6.2 Software upgrade function via DMX cable, if there is any new firmware for this device come out, it can be upgraded simply via a software upgrade box, no need to change any mechanical parts. The upgrade box is not included in the package, if need any further assistance pls just contact authorized dealers.
- 6.3 Hibernation, the device will enter sleeping mode if activated after a period of disconnecting DMX signal to save the power consumption, and will return immediately as soon as the DMX signal is sent again.
- 6.4 Display back-up communication IC, there is a back-up communication IC installed in the display PCB, so users could replace at once if the working one is broken, no need to wait long time from service.
- 6.5 Display flip, by press up and down button for more than 3 seconds, the display will flip automatically, this function is useful to read menu conveniently when device is hanged.

7. Dimensions Drawing







8. Technical specification

Power supply	100-240 V AC, 50/60 Hz ~
Power consumption	280W
LED	36pcs 10W 4in1 leds
DMX channels	16/24/15/17 modes
Beam angle	13° to 60°
Luminous flux	3200lumen, <u>7241lux@2.5m</u> at 13°, <u>795lux@2.5m</u> at 60°
Fuse	T 3.15A, 250 V
Device dimensions	344X179X430mm
Net Weight	11KG