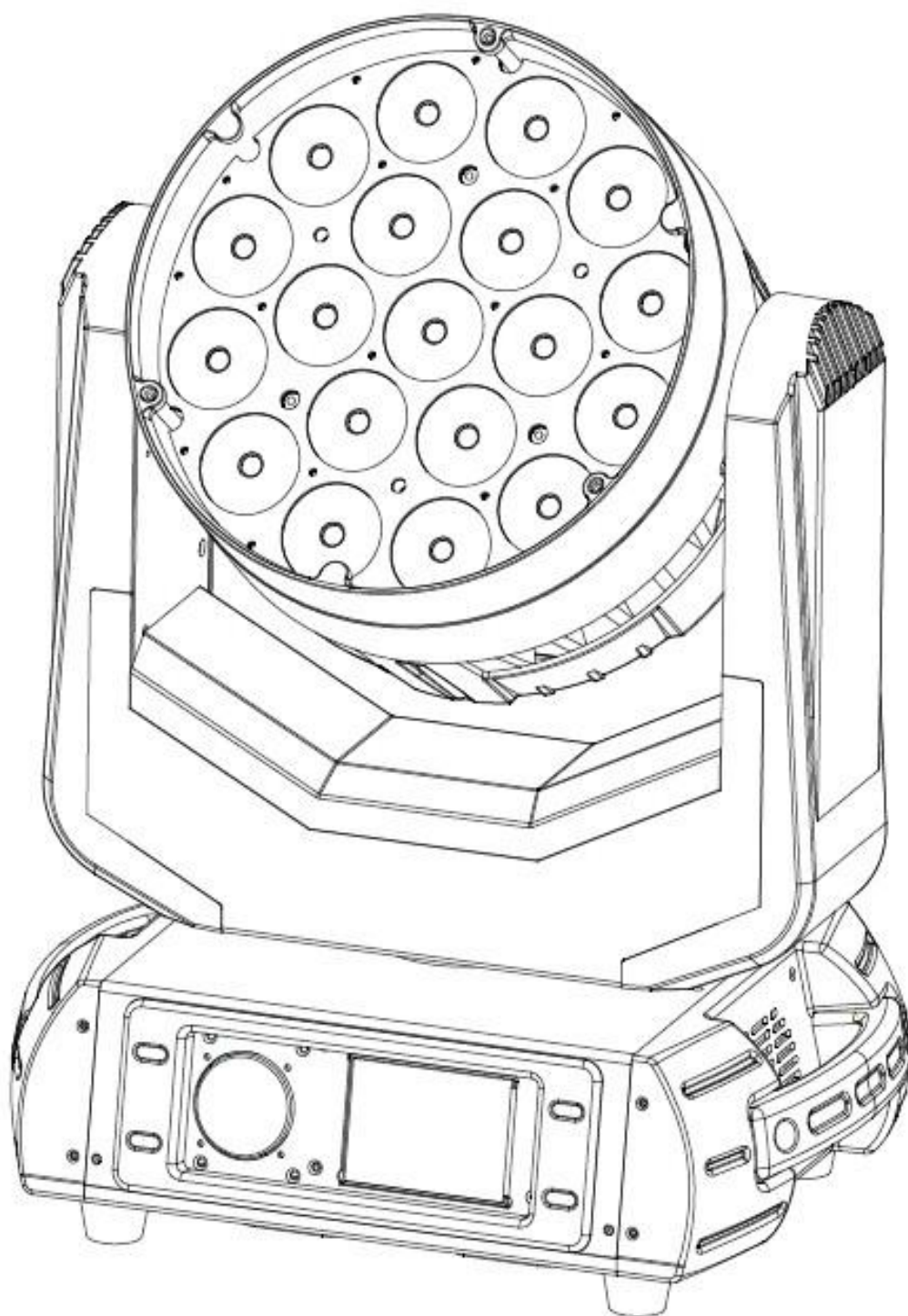




Wash 19x15



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STATEMENT

The product is good packing when ship out the factory. All users should strictly abide by the warnings and instructions stated in this manual, any damage and results due to misuse and the neglect of this operating manual will be excluded from the deal responsibility this manual will not informed in additionally if have technical changes.

About the latest software, hardware, documents and other information, please log in our company website.

1. Production Introduce

Thank you for choose this LM1915 products, this model is the newest led moving head light which is the latest development of the smart, efficient products, beautiful shape, smooth R & D,

combined with the advanced technology of today's stage lighting products with international advanced electronic control technology and excellent user-friendly industrial design.

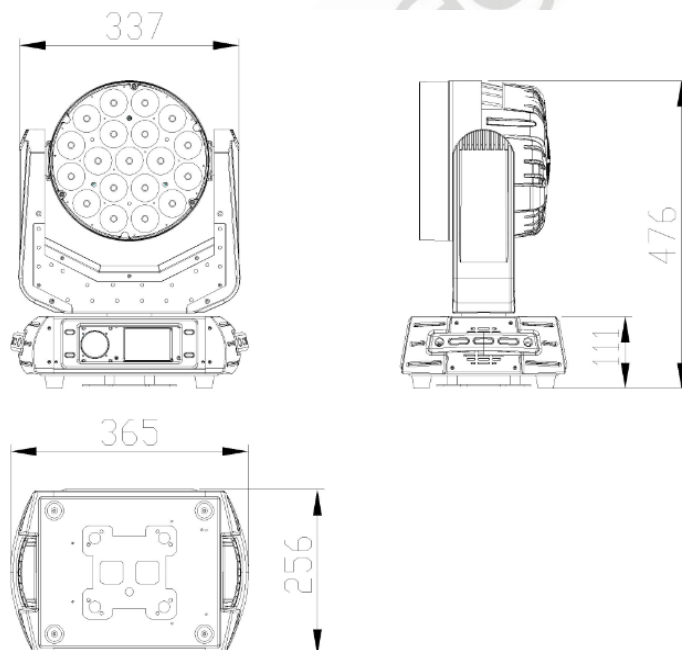
This LM1915 Led light, use 19pcs high brightness 15w RGBW 4 IN 1 LED source, By careful arrangement and design, make the R,G, B,W mixing evenly and colour is pure. Through the built-in microprocessor control, Use the high precision of constant current control mode, the R.G.B.W. can realize independent 0-255 of brightness adjustment, rich color changes. Through the menu calls the built-in program, for scenario editor and setting sound, master-slave control mode, can do rainbow, variable strobe and electric dimming effect.

LM1915 has quick response speed, seismic, impact resistance, good heat dissipation. Long using life (the life of the LED is over 100000 hours) no radiation, high efficiency and energy saving, low energy consumption, the real green products. Accept international DMX512 signal mode.

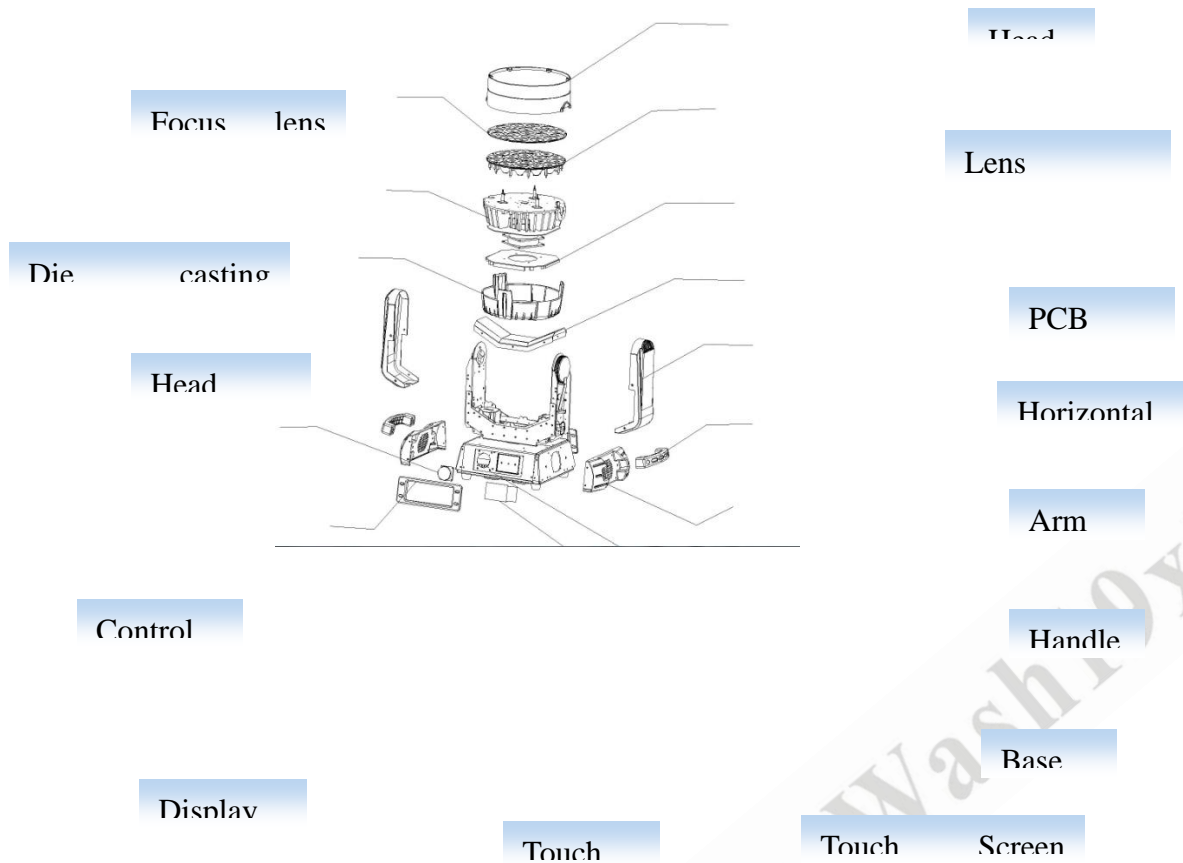
LM1915 applications very widely, installation is simple and can be used for lighting in large fixed stage, the background wash, large-scale theatrical performances, stadium lighting, temporary stage shows, television stations, conference center, professional theaters, dance halls, bars, small theatrical performances, and public environment illumination.

2. Fixture Size

Dimension: 365 (L) ×256 (W) ×476 (H) mm



3. Parts Introduce



4. SAFETY INFORMATION

Safety Warning: This product is only suitable for professional use, and does not apply to security for other purposes. When you got the lights, please check the package whether have any damage caused by transportation. If there is any damage, do not use this fixture, and please contact the dealer or manufacturer as soon as possible. This product is only suitable for indoor, IP20 protection class. Lamps should be kept dry to avoid Moisture, overheating or dusty environment. Prevent lamps come into contact with water or any other liquid. The use of this product should pay attention to: fire, heat, electric shock, ultraviolet radiation, the lamp to explode or Shedding caused serious or fatal injury. Please read the instructions before use energized or installing. Follow through the operation of security methods and pay attention to the warning signs on the specification and equipment.

4.1 ANTI-HIGH TEMPERATURE



$t_a = 40^{\circ}\text{C}$

Please don't use the equipment if the temperature above 40°C

4.2 TO PREVENT FALLING WOUNDING

When Hang the fixture, please must verify that the facilities to be able to withstand at least 10 times or more weight of fixtures.

Please make sure the Mounting hardware is strong enough no any damage, and insurance for the safety rope as auxiliary security fixed in other facilities will need to verify before installation. Installing or removing the equipment, to make the pulley below the work location

4.3 UA PROTECTION

Forbid straight viewpoint with exposed bulbs to avoid UV damage to the eyes;

Do not use the equipment without the lens screen and the lid;

The lens and the light head covers should be timely replaced if any damage to rupture.

4.4 PREVENTION OF ELECTIC SHOCK



The electrical connection must only be carried out with corresponding qualifications;

Before installing, make sure you use the power voltage lamps must comply with the identified power, voltage and have an overload or leakage protection;

Each fixture must be properly grounded, installed in accordance with the relevant standards; ⊕

Cut off the power when stall or replace the lamp and the fuse;

Forbid using the fixture in storm or wet environment



4.5 TO PREVENT BURNING OR FIRE

1. The fixture can't be mounted directly on the surface of ordinary combustible material.
2. The equipment must be installed away from inflammable and explosive materials.
3. The highest temperature is 40 ° C when the equipment is in stable state.
4. The equipment can not have an obstacle at least in the range of 0.5 meters.
5. Do not replace the non-original parts.

5. Packing and Shipping

5.1 ATTACHMENT

The LM1915 packed with fly-case of four in one, or carton box.

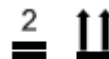
Attach follow accessory.

Content	Quantity
User Manual	1
DMX Cable	1
Safety Rope(charge)	1

5.2 About Device Package

1. Before packed, make sure power is off, and wait for at least 6mins for cooling down.

2. Clean the dust on the light.
3. After packed by plastic bag, high-lift the fixture with two handles besides the product. put the product into the fly-case up-side-down.
4. After packed the product, put the accessory into the accessory case, then closed and lock the fly-case.



5. Fly-case only up stacked two layers. Prohibited upside down.

5.3 UNPACKING

Note: Before unpacking check the damage is whether due to the transportation or not, if you find any such damage, please do not use this item, and contact with the dealer or manufacturer as soon as possible.

1. Open the fly-case, and discover the inside plastic bag.
2. High-lift the product by two handles beside the bottom base and move it out.

6. INSTALL STRANDARD

Please ensure that make regular security checks for the lights and installation accessories. If lack of these working conditions and professional level, please let the relevant professional person do, unprofessional incorrect operation can lead to life-threatening.

The equipment suitable environment temperature range is 0°C - 40°C, don't use it in too high or too low temperature. When the equipment is on installation, dismantling, removing or repairing, please don't stay in the right below of the fixture. The operator must ensure that the fixture is a secure connection. Please let professionals to check its electrical parameters before installation. Make sure the related experts check these installation once a year.

6.1 Rigging Installation

LM1915 can put on the stage or install on the bracket in any direction, the rapid locking system can lock it on the bracket fast and easily according to the following picture 2 direction.

6.2 EQUIPMENT FIXED

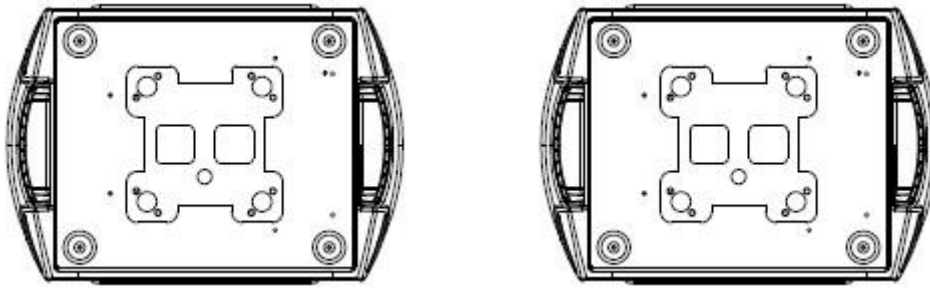
1. Before installation must verify the fast lock is keep in good state, and can withstand at least 10 times the weight of product. Verify that the building can withstand at least 10 times of the total weight of the product and accessory equipments.

2. Use the bolt and Nuts of M12 lock the hooks and fixture.

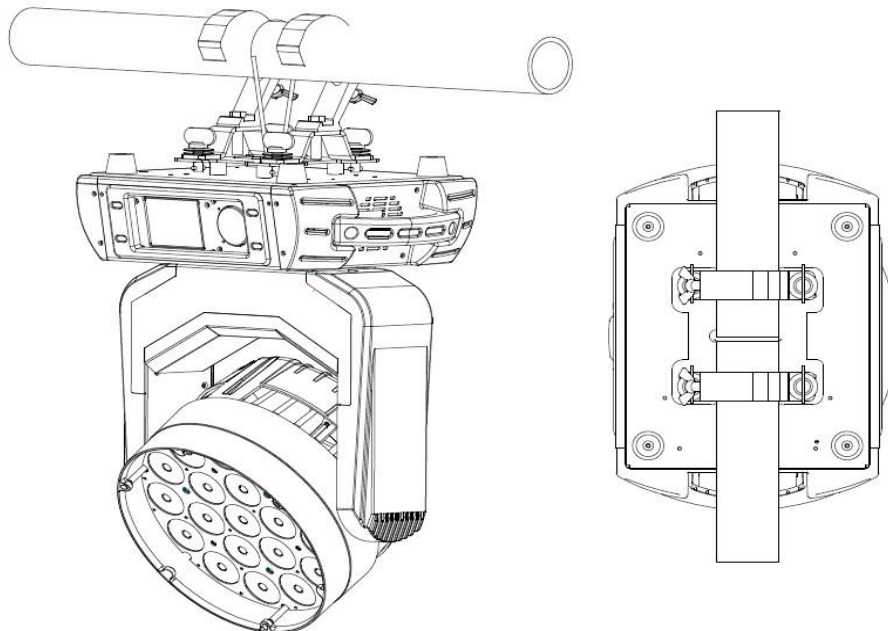
3. Fix the hang fixture into the hole, which located on the base of the light.

Seize handle of fasteners, clockwise rotate 1/4 turn and lock. Installed other one fastener in the same method.

As the pictures show, the two square holes in the center of the base is the safety rope junction.



4. Using the safety cable which can withstand 10 times the weight of the equipment.
5. Make sure the X,Y protect locks are opened, Verify that within 0.5 meters there is no combustibles .



6.3 EQUIPMENT CONNECT



Attention! One product only can accept one input and one output.

LM1915 has DMX input and output 3pin and 5pin connection socket.

Pin 1, FOR GROUND; Pin 2 connected to the negative polarity signal; The pin 3 connected to the positive polarity signal.

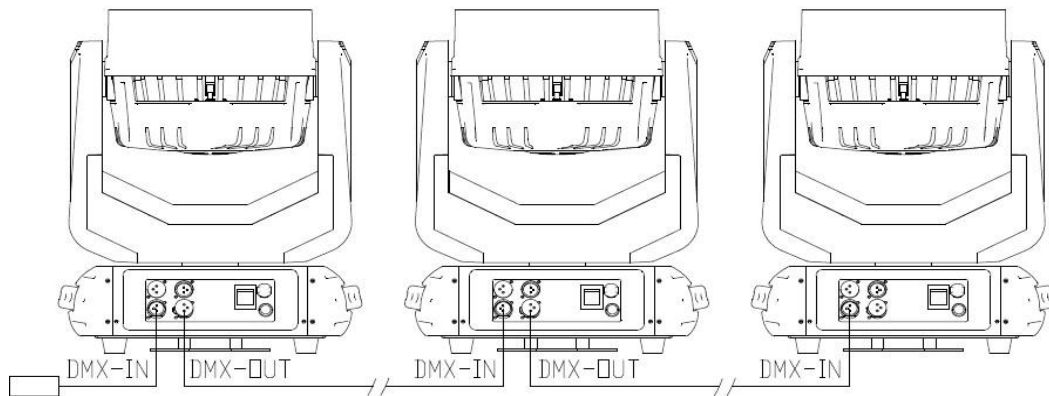
DMX512 cable must use the professional shielded twisted pair cable; standard loudspeaker cable is not reliable to control the long-range data. 24AWG cable is suitable for more than 300 meters long-distance signal transmission and must add DMX 512 signal amplifier.

Do not use two outputs to separate the connection, if separate a continuous connection to branch, DMX512 splitter is necessary.



Attention! vertically up to put the fixture, the shortest safe distance between the fixtures must be ≥ 900 mm, the installation layout diagram as shown in the picture.

To prevent the reflection and interference of receiving the control signals, we must install a terminal plug at the end of each branch of 3pin or 5pin output socket. Terminal plug (welding a 0.25W, 120 Ω resistor between the 2 and 3 pin of 3pin or 5 pin socket).



6.4 CABLE CONNECTION

Attention! Signal wires connection is the X type connection.

X connection - if the fixture external cables damaged, the wires should use the manufacturer or its service agent offered.

Connect the DMX data: from the controller to the nearest controller equipment 3pin or 5pin socket, and then from this equipment output connected to the next equipment input, like this continuous connecting, finally the output of the terminal equipment for the data cable insert a terminal plug.

If use DMX512 distributor, the controller connect to the DMX512 distributor's input firstly, then connect the next equipment from the output of the distributor, according to this method, Finally match the terminal plug.

7. AC power..

7.1 VOLTAGE, FUSE SPECIFICATION

Input Voltage	Fuse
200-240V	5A 5×20 (Main fuse)
100-120V	10A 5×20 (Main fuse)

7.2 Power Connection


The equipment must be operated by professionals; Make sure that the voltage of



power supply must be comply with the voltage identified on the lamp, and must have an overload or leakage electrical protection.

ATTENTION!

The equipment directly connected to the power supply, Don't connect to the silicon box color system, otherwise it will damage the equipment. Factory has equipped the standard 3 pin plug socket. Connect the power supply as below table. Yellow and green wire could be connect to ground. If the cable of the fixture is damaged, replacement should be operate by factory or qualified staff.

Wire Colour	Plug	Mark
Brown	Live wire	L
Blue	Null	N
Yellow+Green	Ground wire	

8. CONTROL PANEL MENU OPERATE

- 1: The indicating arrow in the right below is enter the menu (click the menu).
- 2: The touch screen display have four operation key: Exit, Upward, Downward, Enter, press it will execute orders accordingly.
- 3: Can change the parameter Settings directly on the touch screen.
- 4: Also can use the wheel on the left side of touch screen to change the parameter Settings.
- 5: Can use the built-in battery by the left button of touch screen, change the parameter Settings. When using the built-in battery for power supply, the green Indicator lights up.
- 6: The equipment have built-in temperature sensor, the temperature will display on the bottom left corner of touch screen. When over the rated temperature, the equipment will start the automatic protection function.
- 7: When the equipment receive the DMX512 signal, the blue light on the top right lights up, the left side show have connected the XLR Socket..

CONTROL PANEL MENU OPERATE

Address	DMX Address number set	001-512
	Transfer Rate	029
	Data	506
	Signal quality	100%
	Start Code	000
	Fixed ID set	0-4096
	Return	
Special	White Balance	Off
		Open
	White Balance Red	(0-100%)0-255
	White Balance Green	(0-100%)0-255

	White Balance Blue	(0-100%)0-255
	White Balance White	(0-100%)0-255
	Dim Mode	Fast
		Slow
	ChunMode	Smal
		Stan
		Exte
	RunMode	DMX
		Auto
		Musc
	SigClear	Open
		Off
	Signal Reset	Open
		Off
	Rainbow	Exec
		Annu
	Return	
InfoSee	Total Tim	00048: 00
	WorkHour	00000: 03
	Times	0000: 61
	ClearTim	-- -- --
	ClearTim	-- -- -
	Touch Screen_Control	Vtft.01(Software version)
	XY _Control	(Software version)
	LED _Control	(Software version)
	Return	
Control	Channel 01	(25%) 64
	Channel 02	(50%) 127
	Channel 03	(100%) 255

	Channel118	(25%) 64
	Channel119	(50%) 127
	Channel120	(100%) 255
Display	ShowReve	Natu
		Revl
	Language	Chin
		Engh
	BrigSett	0%-100%
	Backligh	Ligh
		90s
	MenuBack	Off
		60s
	Return	

XY Setup	X Reverse	Off
		Open
	Y Reverse	Off
		Open
	XY Speed	Fast
		NORM
		Slow
	X Angle	540°
		360°
	XY Fback	Open
		Off
	Pan	0-255
	Tilt	0-255
	Focus	0-255
	Return	

9. Technical specification

product specification:

- 1: Power consumption: 400W
- 2: LED Quantity: 19pcs 4 in 1 leds (RGBW)
- 3: Light Souce: Taiwan
- 4: 2.8-inch touch screen display, Can be set up very intuitive personalization capabilities.
- 5: The super quality lens with focusing was imported from **France Gaggione**.
- 6: Single Lens Angle: 8 degree
- 7: Beam/Zoom Angle: 10-50 degrees, three linear motor adjust the lens angle.
- 8: Control Mode: Simple mode, Standard mode, Extended mode
- 9: Each led RGBW can be **individual control**, 256 level of brightness control.
- 10: With sound and master-slave mode control function
- 11: Many strobe and rainbow effect.
- 12: With rich built-in single control settings program, every color and gobo can be adjusted.
 Red (255) ×Green (255) ×Blue (255) ×White(255)
 Every background color of the built-in program can be adjusted Red (255) ×Green (255) ×Blue (255) ×White(255)
- 13: By using constant current control of each color, its brightness maintain on the same level no matter in single fixture control or multiple fixtures control.
- 14: Pan scanning use 3phase motor: 540° 8Bib(16Bitscanning precision),
- 15: Tilt scanning use 3phase motor: 245° 8Bib(16Bitscanning precision),
- 16: Pan and Tilt adopt photoelectric reset system, can automatically inspect and reset,
- 17: DMX512 signal reception
- 18: Built-in temperature detection protection function.
- 19: Using APFC power factor correction function on the switching power supply, power factor >0.98.
- 20: Working Voltage: AC:100V-240V,50-60Hz.

- 21: The maximum allowable temperature while working :40°C.
 22: IP Rate: IP20.
 23: Size: 337×256×352mm.
 24: 15.2Kg.
 25: Pass CE standard and GB7000.217-2008, GB7000.1-2007 standard
 26: Color: Black

10. DMX Control Channel Mode

Three control models

1: Simple mode

2: Standard mode

3: Extended mode

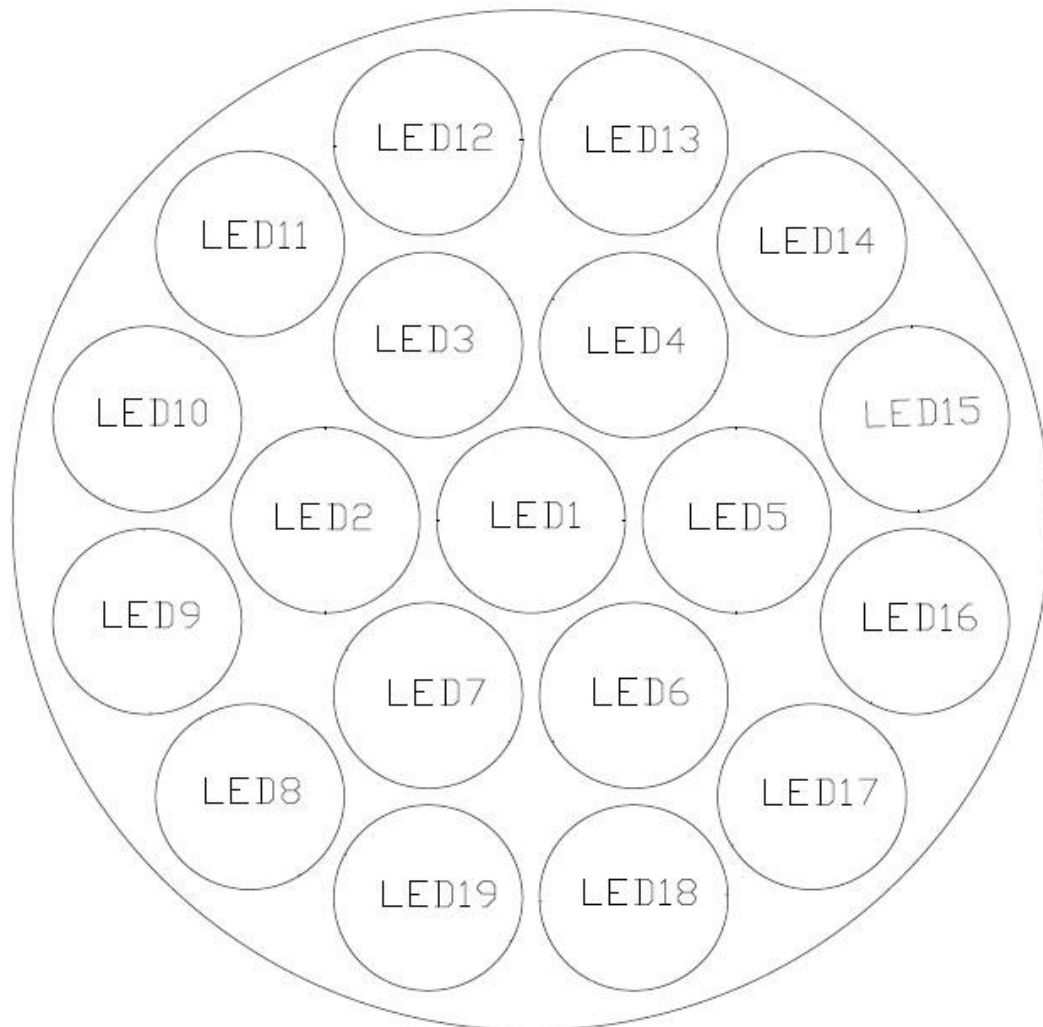
Simple mode	Standard mode	Extended mode	DMX Value	Description
Channel 1	Channel1	Channel1	0-255	Red (darkest —brightest)
Channel2	Channel2	Channel2	0-255	Red Fine
Channel3	Channel3	Channel3	0-255	Green (darkest —brightest)
Channel4	Channel4	Channel4	0-255	Green Fine
Channel5	Channel5	Channel5	0-255	Blue (darkest —brightest)
Channel6	Channel6	Channel6	0-255	Blue Fine
Channel7	Channel7	Channel7	0-255	White (darkest —brightest)
Channel8	Channel8	Channel8	0-255	White Fine
Channel9	Channel9	Channel9	0-255	Color temperature control
Channel10	Channel10	Channel10	Colour macro	
			1-4	Colour macro off
			5-9	Colour1: White
			10-14	Colour2: DirtyWhite
			15-19	Colour3: AliceBlue
			20-24	Colour4: DarkSteelBlue
			25-29	Colour5: Deeplavender
			30-34	Colour6: LilacTint
			25-39	Colour7: DaylightBlue
			40-44	Colour8: BastardAmber
			45-49	Colour9: DeepOrange
			50-54	Colour10: PaleGold
			55-59	Colour11: Apricot
			60-64	Colour12: BrightBlue
			65-69	Colour13: Speciallavender
			70-74	Colour14: PaleLavender
			75-79	Colour15: BrightPink
			80-84	Colour16: Mauve
			85-89	Colour17: LeafGreen
			90-94	Colour18: DarkBlue

			95-99	Colour19: PeacockBlue
			100-104	Colour20: Magenta
			105-109	Colour21: DarkPink
			110-114	Colour22: MiddleRose
			115-119	Colour23: LightSalmon
			120-124	Colour24: EnglishRose
			125-129	Colour25: LightRose
			130-134	Colour26: LightOrange
			135-139	Colour27: Straw
			140-144	Colour28: LightAmber
			145-149	Colour29: DarkYellowGreen
			150-159	Colour30: SkyBlue
			160-169	Colour31: Lavender
			170-174	Colour32: LightLavender
			175-179	Colour33: PinkCarnation
			180-184	Colour34: MediumPink
			185-189	Colour35: LightPink
			190-194	Colour36: SunriseRed
			195-199	Colour37: DarkAmber
			200-204	Colour38: MediumAmber
			205-215	ColourForward Jump: Fast-Slow
			216-228	ColourForward Jump stop
			229-239	ColourForward Jump: Slow-Fast
			240-245	Random Colour: Slow speed
			246-250	RandomColour: Mid-Speed
			251-255	RandomColour: Fast Speed
Channel11	Channel11	Channel11	Strobe	
			0-19	No strobe
			20-49	Strobe ON
			50-64	Conventional Strobe Fast-Slow
			65-69	Strobe ON
			70-84	Strobe turn on pulse Fast-Slow
			85-89	Strobe ON
			90-104	Strobe turn off pulse Fast-Slow
			105-109	Strobe ON
			110-124	Random Strobe Fast-Slow
			125-129	Strobe ON
			130-144	Random turn on Fast-Slow
			145-149	Strobe ON
			150-164	Random turn off pulse Fast-Slow
			165-169	Strobe ON

			170-184	Pulse Strobe
			185-189	Strobe ON
			190-204	Random pulse Strobe Fast-Slow
			205-209	Strobe ON
			210-224	Orthodox Gradients Fast-Slow
			225-229	Strobe ON
			230-244	Pulse Fast-Slow
			245-255	Strobe ON
Channel12	Channel12	Channel12	0-255	Master dim
Channel13	Channel13	Channel13	0-255	Master dim Fine
Channel14	Channel14	Channel14	0-255	Pan motor control
Channel15	Channel15	Channel15	0-255	Pan Fine
Channel16	Channel16	Channel16	0-255	Tilt motor control
Channel17	Channel17	Channel17	0-255	Tilt Fine
Channel18	Channel18	Channel18	0-255	Function Setting
Channel19	Channel19	Channel19	0-255	Reset control
Channel20	Channel20	Channel20	0-255	Focus
Channel21	Channel21	Channel21	0-255	LED graphic display
	Channel22	Channel22	0-255	Auto- program selection
	Channel23	Channel23	0-255	Auto- program speed setting
	Channel24	Channel24	0-255	Auto- program fade-in
	Channel25	Channel25	0-255	Auto- program Red
	Channel26	Channel26	0-255	Auto- program Green
	Channel27	Channel27	0-255	Auto- program Blue
	Channel28	Channel28	0-255	Auto- program White
	Channel29	Channel29	0-255	Auto- program Focus
	Channel30	Channel30	0-255	Backlight dimming
	Channel31	Channel31	0-255	Reserve
	Channel32	Channel32	0-255	Reserve
	Channel33	Channel33	0-255	Reserve
	Channel34	Channel34	0-255	Reserve
	Channel35	Channel35	0-255	Reserve
		Channel36	0-255	Led1 single control_Red
		Channel37	0-255	Led1 single control_Green
		Channel38	0-255	Led1 single control_Blue
		Channel39	0-255	Led1 single control_White
	
		Channel108	0-255	Led19 single control_Red
		Channel109	0-255	Led19 single control_Green
		Channel110	0-255	Led19 single control_Blue
		Channel111	0-255	Led1 9 single control_White

Remark: Reset Channel Value, reset it after it stay the effect value 5 seconds.

11.Led Position



12. Routine Maintenance

Cleaning and maintenance

LM1915 need do daily cleaning and maintenance, the equipment life time is greatly depends on the operating environment, please consult the technical department for professional advice, submit the repair and maintenance to the professional technician.

Attention! Too much dust, smoke flow, the damage by unnormal use, are not covered under

warranty.

Warning! Pls turn off the power supply before you open any cover.

Fixture Cleaning

Optical components need to be clean gently, coating surface is very fragile, it is easy to scratch, keep the acrylic plate clean, or will affect the brightness of the fixture, don't use destructive solvent, otherwise it will damage the plastic or coating.

Clean the optical element

- 1: after turning off the power, open the cover.
- 2: Using a vacuum cleaner or pressure blow down gently blowing off the dust.
- 3: With No bouquet cotton paper or using cotton cloth with water or distilled water to wipe the granular material, do not wipe the surface, use the pressure gas blow away the dust.
- 4: with dip with ethylene propylene glycol cotton cloth or No smell of cotton paper to remove the dust and residues, also can use glass cleaner, but must use distilled water to remove residues, wipe from the center to both sides, then wipe it dry with a soft cotton cloth.

Clean the fan and the air hole

With a soft brush, cotton paper, the air cleaner or pressure fan get rid of the dust from the fans and air hole.