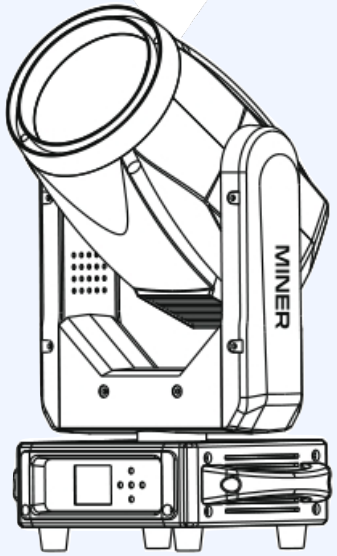
MINER

Mini Beam 9r 260

Black/White



USER MANUAL

2.5m

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Chapter 1 Installation and attention

1.Maintenance

●To reduce the risk of electrical shock or fire,do not expose this unit to rain or moisture.
●Intermittently using will extend this item's service life.
●Please clear the fan, fan net,and optical lens in order to keep good work state.
●Do not use the alcohol or any other organic solvent to wipe the shell.

2.Statement

●The product has perfect performance and integrity packing.All users should be strictly complying with the warning and operating instructions as stated.Or we aren't in charge of any result by misusing.Any damage resulting by misuse is not within the Company's warranty.Any fault or problem caused by neglecting the manual is also not in the charge of dealers.
●Note: All information is subject to change without prior notice.

3.Safety Precaution

●In order to guarantee the product's life, please don't put it in the damp places or even the environment over 60degress.
●Always mount this unit in safe and stable matter.
●Install or dismantle should operate by professional engineer.
●Using lamp,the change rate of power voltage should be within±10%.If the voltage is too high,it will shorten the light's life;If it's not enough,will influence the effect.
●Please restart it 20 minutes later after turning off light , until full-cooling. Frequent switching will reduce the life span of lamps and bulbs; intermittent using will improve the life of bulbs and lamps.
●In order to make sure the product is used well, please read the Manual carefully.

4.Cable connection(DMX)

●Use a cable conforming to specifications EIA RS-485: 2-pole twisted, shielded, 120Ohm characteristic impedance, 22-24 AWG, low capacity. Do not use microphone cable or other cable with characteristics differing from those specified. The end connections must be made using XLR type 3 or 5-pin male/female connectors. A terminating plug must be inserted into the last projector with a resistance of 120Ohm (minimum 1/4 W) between terminals 2 and 3.
●IMPORTANT: The wires must not make contact with each other or with the metal casing of the connectors. The casing itself must be connected to the shield braid and to pin 1 of the connectors.

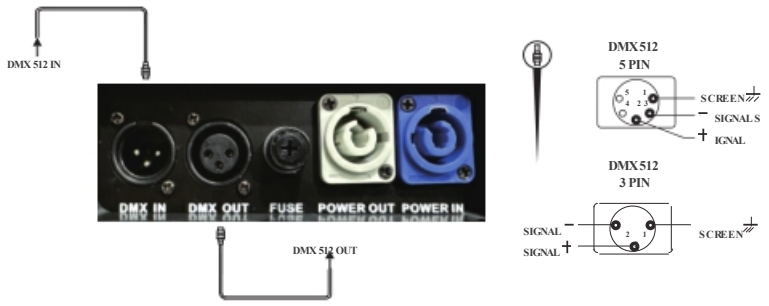


Figure 1 DMX Cable connection

5.Rigging (Optional)

●This equipment can be positioned and fixed by clamp in every direction of the stage. Locking system makes it easy to fasten to the bracket.

●Attention! Two clamps is needed to fix the equipment. Every clamp is locked by fastener of 1/4 kind. Fastener can only be locked clockwise.

●Attention! Fasten a safety string to the additional hole of side aluminum piece. The secondary accessory can not hang on the delivery handle. Nip the equipment on bracket.

●Check if rigging clamp (not including the one inside) damaged or not? If stand ten times weight as the equipment. Make sure the architecture can stand ten times weight as all the equipments, clamps, wirings and other additional fixtures.

●Screws for clamping must be fixed firmly. Take one M12 screw (Grade 8.8 or higher) to clamp bracket, and then screw the nuts.

●Level the two hanging points at the bottom of clamp. Insert fastener to the bottom, lock the two levers by 1/4 rotating clockwise; then install another clamp.

●Install on safety string which stands at least ten times weight as equipment. Terminal of the accessory is designed for clamps.

●Make sure pan/tilt lock unlocked or not. Keep the distance more than 1M from equipment to flammable material or lighting source.

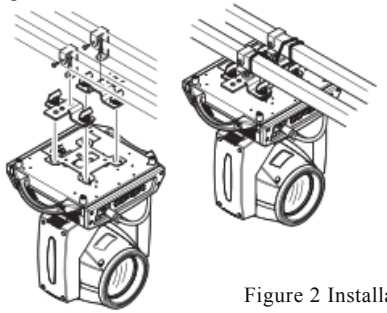


Figure 2 Installation

6.RDM Note

●RDM is an extended version of DMX512-A protocol. It is a remote device management protocol. Traditional DMX512 protocol communication is one-way communication. The protocol is based on RS-485 bus. RS-485 is a time-sharing multi-point, half-duplex protocol. Only one port is allowed to output at the same time. So, when using RDM, we should pay attention to it. The following points:

●To use console or host device that supports RDM host protocol.

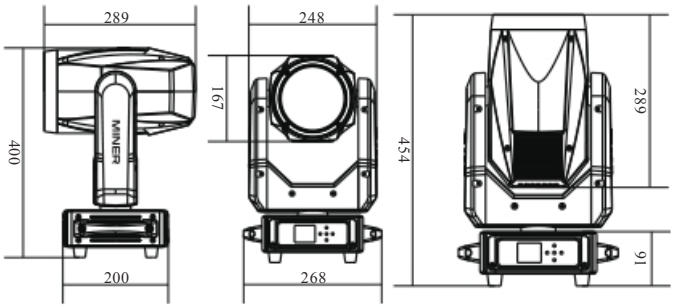
●Use bidirectional signal amplifier, traditional one-way signal amplifier is not suitable for RDM protocol, because the RMD protocol needs feedback data, the use of one-way amplifier will block the return of data, resulting in no search fixture;

●All fixture must be set to DMX mode to ensure only one host on the cable.

●A 120 ohm impedance matching resistor must be inserted between terminals 2 and 3 of the terminal plug. When the signal line is longer, reducing the signal reflection will make the differential signal more stable and beneficial to the quality of communication.

●When the fixture appears to accept DMX control, but can not been search by RDM host, first check the signal amplifier, and then check whether the signal line 2, 3 lines have bad contact.

7.Luminaire size



Chapter 2 Panel operation

1.Brief

● The light panel diagram show as Figure 3, above area is fixture description, below area show fixture real-time status, such as DMX cable status, lamp status, error or information(ps. when there are message hav't been checked, echo 'ERR' in status bar, otherwise echo 'NOR').

● Display & operation just like 'Android operation system', when select or set item value, system save the settting immediately.

● RDM protocol is embed in fixture, user set DMX address via cable using the controller surpport RDM function. when fixture was search by controller, displayer will echo 'RDM' indicate this RDM is work.



Figure 3 Panel diagram

2.Operation

①.Operate fixture with touch or encoder/button

●The left area is TFT Displayer and touch(product which support touch), chick item or value with finger will to complete operation of set light setting(parameters) or view light state.

●The area on the right hand side is rotary encoder with button or key, As auxiliary input interface, if fixture disable touch function, the encoder/key can been choose to set or view the item, and then press the encoder button/key to confirm the selection, rotary encoder or push key again set the parameter value, finally, Press encoder button/key one again to save value or setting.

②.Parameter value setting

When the selected item is value need to been modified, the dialog shown in Figure 4 will popup.



Figure 4 Dialog of value setting

●**Modify value:**Can quickly modify value via pull the slider to the desired position, or click the button of ‘up’ or ‘down’ whit finger on the right side to set the exact desired value, another way is roll encoder on the right hand side of panel.

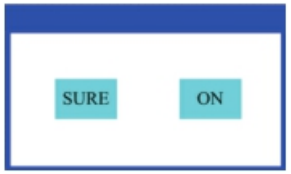
●**Apply value:**When Value had been modified, Then press the bottom of ‘apply’ in the left corner to apply to the light, but hav’t saved.

●**Save Value:**Any time, click on the lower right corner of the "OK" button, the setting will been saved into internal memory.

③.Boolean parameter setting

●when the selected parameters is a Boolean value (such as ON or OFF), can directly modify setting by chick corresponding item, the setting will been saved right now.

●When the parameter is a key item, chick corresponding item, a dialog shown in Figure 5 will been popup ask for the confirm. Chick ‘sure’ to confirm.





3.Operation and parameter instruction

●Chick item of main menu, enter corresponding sub menu shown in Figure 6, In main menu, chick 1/6 function button into corresponding parameter menu.

●In sub menu(page), chick main item on the left side of displayer, can shift to corresponding sub menu(page) quickly.

①.DMX Address setting

Enter page show in Figure6-1, can set fixture DMX address, channel mode and so on.

The menu settings of fixture have optimized the setting of addresses. Several settings of the address are as follows:

●Select " Prev " or "Next", the fixture will be based on the current address and channel mode, automatically calculate the next or last address, make address setting can quickly;

●Click on the address value, you can enter the numeric editing window, where you can set any valid address, fixture system automatically get the current number of channels, automatically filter the unusable address (512 - the current number of channels).

●Fixture support RDM protocol, remote address can be set through RDM.

Provide one buttons:

●Channel mode’chan’: you can choose different channel modes by cycle.

②.Fixture operating mode setting

Through the page shown in Figure 6-2, the operating mode of the fixture can be set and the lamp can be controlled. The fixture supports four operating modes (DMX mode, auto mode, voice control mode and scene mode). Detailed parameter settings can be refer in the previous section. Specific parameter descriptions are as follows:

Operating mode

DMX Ctrl	DMX mode, receive DMX signal, RDM signal.	
Auto Run	Fixture run automatically according to built-in programs.	
Sound Ctrl	When the fixture detects a strong sound, the fixture automatically runs a scene according to the built-in program, otherwise it will stay the last scene.	
Scene Mode	Runs in a set scebe, which supports most of the custom editing of 10 scenes.	
	1~10	outputs the specified scene.
	Auto	Automatically loops the output scene in the set scene time (non-zero) order, and the scene with time 0 automatically ignore.
M/S Choose	Master and slave selection, non-DMX mode takes effect, select the mode of data output, fixture detect DMX cable state automatic switch output, prevent data	
	Master	Fixture runs built-in program. If DMX has no signal, it outputs data (synchronization), otherwise it does not output data.
	Slave	Fixture runs built-in program and do not output data.
	Auto	If DMX has no signal,the fxiture will runs built-in program.Otherwise, the fixture will run in DMX Mode(follow DMX).
Lamp switch	(Lamp light source)pop-up confirmation dialog box, select "SURE" to confirm the current operation, turn on or off the lamp, switch time interval limited to 30 seconds.	
	Off	The current lamp output is off.
	On	The current lamp output is turned on.

Scene mode applies to a single or a small number of fixture, just output a fixed scene, or need to run a simple program, you no need connect to the console, in the scene page can be edited.

If the light source is lamp, wait for 10 minutes before turning off the lamp.

③.Set display

The fixture support Chinese and English, invert display and so on. Enter the corresponding parameter settings as shown in Figure 6-3. The specific menu contents are as follows:

DISPLAY SETTING

Language	Display language settings	
	English	English display
	Chinese	Chinese display
Screen saver	Set screen 30 seconds without operation, the screen's display content or method.	
	OFF	Keep the last operation page
	Mode1	Black
	Mode2	Black screen,showing the address code of the current fixture in the lower
	Mode3	Display trademark information, address code and operation mode.
Screen Rot	Set the display direction of the screen.	
	OFF	No reverse display
	On	Reverse display
DMX Indicate	Set the indication mode of DMX signal indicator.	
	Mode1	When signal is bright, no signal is off.
	Mode2	When signal is off, no signal is bright.
	Mode3	When signal is flash, no signal is off.
Screen Lihgt	Set the screen backlight for 10 seconds without operation	
	1~10	10

④.Scene

Enter the page shown in Figure 6-4, and the fixture enters the scene editing mode. Under this page, the fixture does not receive DMX console data, and the edited data will effect on the fixture immediately.

The content of the page depends on the currently selected channel mode, and the channel content and order displayed are consistent with the fixture channel table. Through this page, you can edit 10 scenes, as shown in the following table:

SCENE MODE

Scene Select	Select the current operation scenario.	
	1~10	The 10 scenes sets the format
Scene Time	Sets the retention time of the current scene when it is automatic, unit in 0.1	
	0	The current scene is not output in automatic scene
	1-255	0..1s-25.5s
1. PAN	0-255	Set up the data of each channel, and the contents and order of the display are one-to-one correspondence with the channel list of fixture.
……	0-255	
……	0-255	
N. Function	0-255	

If the reset channel in the scene edits the effective reset data, the fixture will reset, but after reset, the corresponding reset channel value will automatically set 0, preventing multiple consecutive resets.

Looking at this page, you can get the current channel table slot of the fixture. For specific channel data, please refer to the detailed channel description.

⑤.Set light run parameter

Enter the page shown in Figure 6-5, adjust the field parameters of fixture, facilitate the installation of fixture, etc.

ADVANCED SETTING

Pan Invert	Set the rotation direction of PAN	
	OFF	
	ON	
Tilt Invert	Set the rotation direction of TILT	
	OFF	
	ON	
P/T Rectify	Setting up fixture to detect XY lost step and correct	
	OFF	Uncorrected position after out of step
	ON	After losing step, the position is automatically corrected and the out of step fault is recorded.
Pan Offset	Setting the zero point of the PAN of the fixture	
	4-150	
Tilt Offset	Setting the zero point of the TILT of the fixture	
	4-48	
Data hold	When the fixture is not equipped with DMX signal, the output state of the fixture	
	OFF	No signal, so the motor and light source return to the position and state when reset is completed.
	ON	No signal, keep the last frame DMX data output.
Lamp mode	(lamp light source) Set the way to first open the lamp after power up	
	Power on	Turn on the lamp at power up and reset the lamp after 30
	After reset	Reset the fixture after 3 seconds when power-on, and turn on the lamp after reset.
	Manual	After reset, manually turn on the lamp through the menu or
Factory Setting	Pop up the confirmation box, select "SURE", and return the lamp parameters to the factory settings.	

When choosing power-on mode, the lamp will wait for 30 seconds after power-on, let the lamp fully start, internal voltage is stable enough, then start the reset program, if the field capacity is stable, recommend power-on mode.

When the fixture can not calibrate the position, please check whether the "P/T Rectify" is turned off.

When the signal is unplugged, check the Data Hold setting first if the position of the fixture is not output as expected.

When setting the XY offset, after setting up, please control XY with the maximum stroke first to check that XY will not bump into the positioning rod or shell.

⑥.Status and information

Entering the page shown in Figure 7-6, you can view the information and real-time status of the fixture to get their usage status. If the fixture need customer service, please provide the status information displayed on the page as a basis for judgment, as shown in the following table:

STATUS INFORMATION

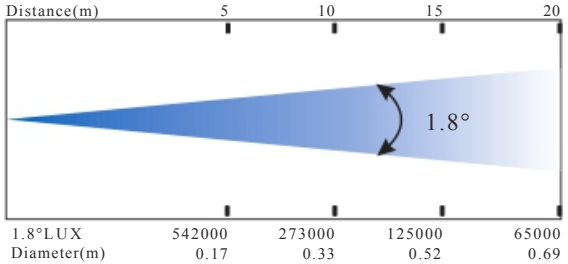
Stepper info	Display information status of all motors and signals in fixture.	
	Hall	No display, indicating that the motor has no Hall, 0 indicating that the motor leaves the correction position point, 1 indicating that the motor is in the correction position point.
	Status	Display motor reset status
	PAN	Display real-time position value of PAN optocoupler feedback
	TILT	Display real-time position value of TILT optocoupler feedback
	PAN OP	Displays the PAN TILT optocoupler two signal level state, binary
Error Logging	Show the latest 8 error records when the fixture is reset and running. The error records are not saved after power failure. The current power cycle is valid.	
	Error Logging	Total number of failures detected after power on
	12:03	The time of power failure when the fault occurs is in
	Hall error	The effective hall signal is not detected when the motor is reset

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Error Logging	Hall short	When the motor is reset, the hall signal of the motor is always effective.
	Opti error	No effective optocoupler signal is detected when the motor is reset.
	Lose stop	The corresponding motor is out of step during its operation.
	Hit	Striking the positioning rod when the motor is reset.
	Lamp error	Lamp explosion accident
	NTC error	The temperature sensor signal is abnormal
	Fan error	The main fan is not working properly.
Fixture status	Displays the critical state data of the current fixture for reference.	
	Communication	0~100%, Communication quality of internal data link of lamps and lanterns.
	Error cnt	The number of erroneous frames was detected after power on, and the total number of erroneous frames was detected.
	Lamp Temperature	Show the temperature of the current light source, "---" means no
	Panel Temperatrue	Displays the temperature of the current display panel or the ambient temperature.
	Sensor1 Temperatrue	Display the ambient temperature of the motherboard temperature or the motherboard installation position.
Version	Display the information and version of the current fixtrue, important reference for after sales maintenance.	
	Device	The name of the fixture is the same as the equipment information of
	Model	The type of fixture is the same as the model information of RDM.
	Panel	Firmware version and serial number of display panel.
	Main Board	Firmware version and serial number of mother board 1.
Light time	Record the total cumulative time of light source opening, unit minute, user manual cleaning, as a reference for regular maintenance of light source time.	
Total time	The total accumulated time for recording the opening of fixture is not allowed to be removed.	

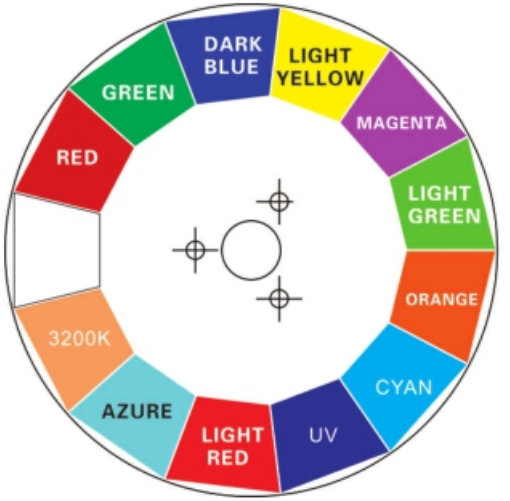
Chapter 3 Functional Effects

Distance(m) :

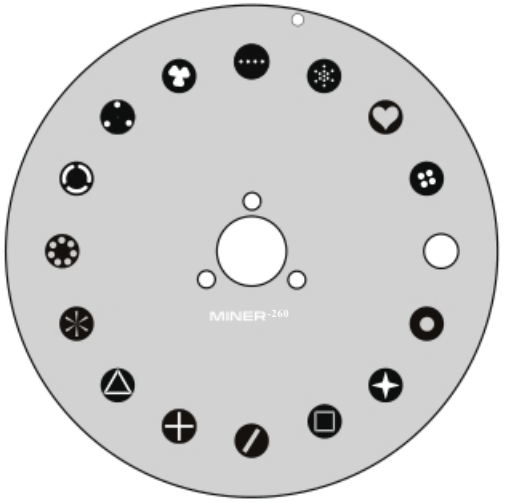


Functional Effects :

Color Wheel



Static Gobo Wheel





Frost



8 Prism



16 Prism

Chapter 4 Channel description

1.Channel table

This luminaire channel can be viewed in scene mode in order, channel mode is set in the "Address Settings" page, specific details of the data as follows:

CHANNEL TABLE

Channel	NAME	VALUE	BRIEF
Ch1	Colour	0-9	White
		10-14	White+Colour1
		15-19	Colour1
		20-24	Colour1+Colour2
		25-29	Colour2
		30-34	Colour2+Colour3
		35-39	Colour3
		40-44	Colour3+Colour4
		45-49	Colour4
		50-54	Colour4+Colour5
		55-59	Colour5
		60-64	Colour5+Colour6
		65-69	Colour6
		70-74	Colour6+Colour7
		75-79	Colour7
		80-84	Colour7+Colour8
		85-89	Colour8
		90-94	Colour8+Colour9
		95-99	Color9
		100-104	Colour9+Colour10
		105-109	Colour10
		110-114	Colour10+Colour11
		115-119	Colour11
		120-124	Colour11+Colour12
		125-129	Colour12
		130-193	Rotate forward (fast to slow)
		194-255	Rotate reverse (slow to fast)
Ch2	Strobe	0-3	Dark
		4-103	Pluse strobe slow to fast
		104-107	Open
		108-207	Fade strobe slow to fast
		208-212	Open
		213-251	Rand strobe slow to fast
		252-255	Open
Ch3	Dimmer	0-255	0-100% dimmer
Ch4	Gobo	0-5	White
		6-10	Gobo1
		11-15	Gobo2
		16-20	Gobo3
		21-25	Gobo4
		26-30	Gobo5
		31-35	Gobo6
		36-40	Gobo7
		41-45	Gobo8
		46-50	Gobo9
		51-55	Gobo10
		56-60	Gobo11
		61-65	Gobo12
		66-70	Gobo13
		71-75	Gobo14
		76-80	Gobo15
		81-85	Shake slow to fast Gobo15
		86-90	Shake slow to fast Gobo14
		91-95	Shake slow to fast Gobo13
		96-100	Shake slow to fast Gobo12
		101-105	Shake slow to fast Gobo11
		106-110	Shake slow to fast Gobo10
		111-115	Shake slow to fast Gobo9
		116-120	Shake slow to fast Gobo8
		121-125	Shake slow to fast Gobo7
		126-130	Shake slow to fast Gobo6
		131-135	Shake slow to fast Gobo5
		136-140	Shake slow to fast Gobo4
		141-145	Shake slow to fast Gobo3
		146-150	Shake slow to fast Gobo2
		151-155	Shake slow to fast Gobo1
		156-160	White
		161-208	Rotate reverse (slow to fast)
		209-255	Rotate forward (slow to fast)
Ch5	Prism1	0-127	None
		128-255	Insert prism A (16 prism)
Ch6	Prism1.Rot	0-127	0-360(degree)
		128-191	Rotate forward (slow to fast)
		192-255	Rotate reverse (slow to fast)
Ch7	Prism2	0-127	None
		128-255	Insert prism B (8 prism)

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Ch8	Empty	0-255	None
Ch9	Focus	0-255	Far to near
Ch10	Pan	0-255	0-540 (degree)
Ch11	Pan Fine	0-255	0-2 (degree)
Ch12	Tilt	0-255	0-270 (degree)
Ch13	Tilt Fine	0-255	0-1 (degree)
Ch14	PT Speed	0-255	Fast to slow
Ch15	Frost	0-63	None
		64-255	Frost
Ch16	Reset	0-99	None
		100-105	Turn off lamp over 3 second
		106-199	None
		200-205	Turn on over 3 second
		206-209	None
		210-215	Reset XY over 3 second
		216-219	None
		220-235	Reset Effect motor over 3 second
		236-239	None
		240-255	Reset fxiture over 3 second

2. Fixture Cleaning

Regular cleaning is very important for fixture life and performance. Buildup of dust, dirt, smoke particles, fog fluid residues, etc. degrades the fixture's light output and cooling ability. Cleaning schedules for lighting fixtures vary greatly depending on the operating environment. It is therefore impossible to specify precise cleaning intervals for the fixture. Environmental factors that may result in a need for frequent cleaning include:
· Use of smoke or fog machines.
· High airflow rates (near air conditioning vents, for example).
· Airborne dust (from stage effects, building structures and fittings or the natural environment at outdoor events, for example).
If one or more of these factors is present, inspect fixtures within their first few hours of operation to see whether cleaning is necessary. Check again at frequent intervals. This procedure will allow you to assess cleaning requirements in your particular situation. Follow these precautions when cleaning the fixture:
· Work in a clean, dry, well-lit area.
· Use gentle pressure only. A soft lint-free cloth dampened with a solution of water and a mild detergent is recommended, under no circumstances should alcohol, solvents or abrasives be used! Use care when cleaning optical components: surfaces are fragile and easily scratched.

Chapter 5 Technical Parameters

Main Feature

·The diameter of the light-emitting lens: 125mm
·Electric focusing system1 color wheel: 12 colors + white, rainbow effect
·1 fixed pattern plate: 15 patterns + white circle
·Prism: 1 fixed 8 prism/1 bidirectional rotatable 16 prism,
·Excellent colorful effect
·0-100% smooth dimming
·Various strobe speed effects

Technical Specifications

·Lamp: CMY 260W (2000 hours)
·Color temperature: 7800K
·Beam angle: 1.8°
·Channel mode: 16CH
·Control protocol: DMX512, RDM
·X-axis/Y-axis: 540°/270°
·Precision: 16-bit precision scan
·Correction: X-axis/Y-axis position out-of-step automatic correction
·Display: LCD display
·Signal input/output: three-core XLR socket
·Power Outlet: Power Connector Input/Output
·Protection class: Ip20

Physical Parameters

·Input power: 100-260V~ 50/60Hz
·Power: 260W
·Dimensions: 268x220x454mm
·Carton size: 350x370x480mm
·Flight Case: 570x350x680mm(2in1)
·Net weight: 8kg
·Gross weight: 10kg (Including carton, 1 pack 1)
35kg(Including flight case, 2 pack 1)