

MT WASH 1980 IP

User Manual



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TECHNICAL PARAMETERS

Light source

Voltage: AC100-240V,50/60Hz

Power: 1950W

Main light: 19 x 80W LED chips.

Backlight: 303 pieces, 0.2W RGB

Controls

Control modes: DMX512, Auto, Master-Slave, Voice Control, with RDM function. Channels: 27CH/117CH/98CH/103CH/84CH/41CH

Software upgrade: Upgrade software via DMX connection.

Power socket DMX512 with waterproof input/output connector.

Effect

Dimming: 16-bit linear dimming from 0 to 100%.

Characteristics: Single bead oscillation + staining + light beam.

Construction

Operating temperature: -30°C to 50°C.

Stroboscopic frequency: 1~30Hz

structure :

signal input/output

Protection rating: IP65

Weight&Dimension

Dimension: 54*30*67cm

NW: 32.1kg

Remove the packaging

To ensure correct and safe use of this product, please carefully read the instruction manual before installation and operation. This manual contains important installation and application information. Please strictly follow the operational steps outlined in the manual during installation and use of the product.

Please keep this instruction manual properly.

The 1980 waterproof lights are designed and manufactured in strict compliance with CE standards, featuring the internationally recognized DMX512 signal protocol. They support both standalone control and networked operation, with their rapid rotation, low noise, and powerful functionality making them ideal for small to medium-sized concerts, theaters, studios, nightclubs, and bars.

Handle the packaging carefully. After removal, inspect whether the product has been damaged during transportation and verify the completeness of the following contents.

1980 Waterproof lamp----1 unit

Signal cable----1 piece

Manual-1 copy

Power cord-1 piece

Safety Instructions

pay attention to !
Handle this product with extreme caution. This high-voltage device may cause electric shock if exposed to live wires.

This product is in good condition before leaving the factory. To maintain its integrity and ensure safe operation, users are advised to comply with the safety precautions and warnings stated in this manual.

Important: Damages caused by non-compliance with this manual are not covered by warranty. The supplier shall not be liable for any product issues arising therefrom.

If the product has been exposed to extreme temperature fluctuations (e.g., post-transportation), do not power it on immediately, as moisture droplets from temperature changes may damage the device. Wait until the product reaches normal temperature before use. This indoor product operates within a 200-240V voltage range. Ensure the ground voltage does not exceed the product's tolerance limit. The power plug must be inserted into a Class I socket with proper protection. The green or tea-green conductor must be properly grounded.

Regularly inspect the power cord of this product. Ensure the cord is not folded, damaged, or scratched, and is not connected to other wires. Special care should be taken when connecting the power cord or related wiring. Always unplug the power supply when not in use or before cleaning.

Before using the product, familiarize yourself with its operational functions. Do not allow children or non-professionals to handle the product. Avoid shaking the product. Do not apply excessive force during installation or operation. Non-professionals should not operate the product. Most damages are caused by improper handling.

The product is not equipped with relevant repair accessories. Maintenance and repair of the product can only be performed by professionals!

Do not modify this product without authorization, as unauthorized alterations may cause damage, which will not be covered by the warranty. Furthermore, improper operation may lead to short circuits, burns, or electric shocks, among other hazards.

Operation Instructions

This product is a shaking dyeing beam lamp designed to create dynamic dyeing effects.

If the product has undergone significant temperature changes (e.g., post-transportation), do not initiate operation immediately, as thermal expansion and contraction may cause damage. Wait until the equipment reaches normal room temperature before starting the product.

--Be cautious of vibrations. Avoid strong impacts during installation.

Do not lift the entire product by the lamp head, as this may cause mechanical damage to the device.

When selecting an installation location, ensure the product is not exposed to overheating, excessive moisture, or dust. Do not place any wires on the ground, as this may pose an electric shock hazard.

--Before installing the product, ensure the installation site is secure

--Please secure the product with a safety rope and check all screws are properly tightened during installation

--Ensure the lens is in good condition. Replace the lens if it is damaged or scratched.

--It is recommended that this product be operated by technicians familiar with it. Non-technical personnel are prohibited from operating this equipment, as many incidents of loss are caused by improper operation.

Store the packaging materials properly for potential secondary transportation.

Do not modify the product without the guidance of the manufacturer or distributor.

Any equipment malfunction caused by improper operation of this device as specified in the instruction manual shall not be covered by warranty. Additionally, any incidents resulting from short circuits, injuries, electric shocks, ultraviolet radiation-induced harm, or bulb explosions shall not be covered by warranty.

Product Hanging and Installation

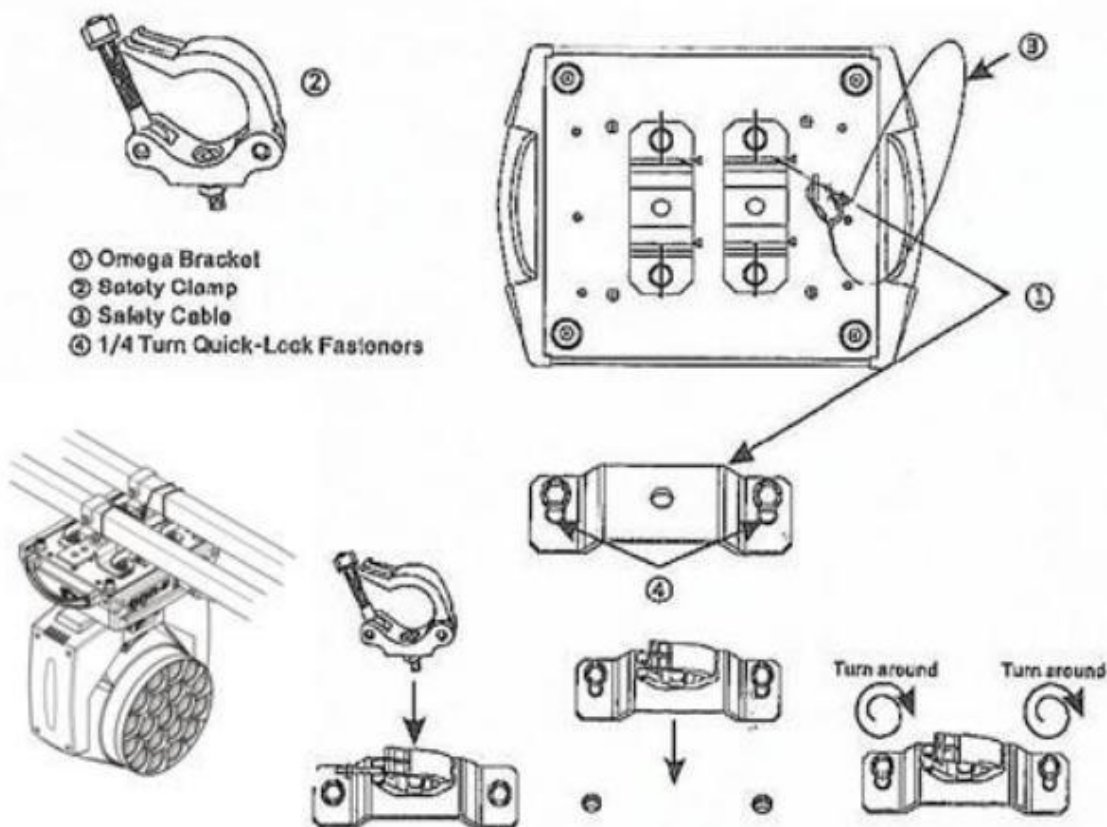
Note: For safety, install this product in a location away from walkways, seating areas, or within easy reach. Before hanging, ensure the mounting point can support up to 10 times the product's weight. The installation of the product must have a double protection device, such as a safety rope. Do not stand under the installation point when hanging, removing, or repairing this product. Ensure this product is installed at least 0.5 meters away from flammable materials. Always use safety ropes as a safety measure to prevent accidents caused by loose fasteners.

Suspension points: The installation of top-mounted suspension systems requires experienced personnel, including the calculation of load-bearing requirements, selection of installation materials, and periodic inspection of the safety conditions of installation materials and products. If you lack this knowledge, do not attempt installation independently. Incorrect operation may lead to serious consequences such as personal injury.

Before powering on the product, ensure all required hanging and installation steps are completed.

Quick-lock hanging system: This product features a specially designed professional hanging mechanism at the base, including a quick-lock hanging component and a safety rope attachment point (refer to the diagram below).

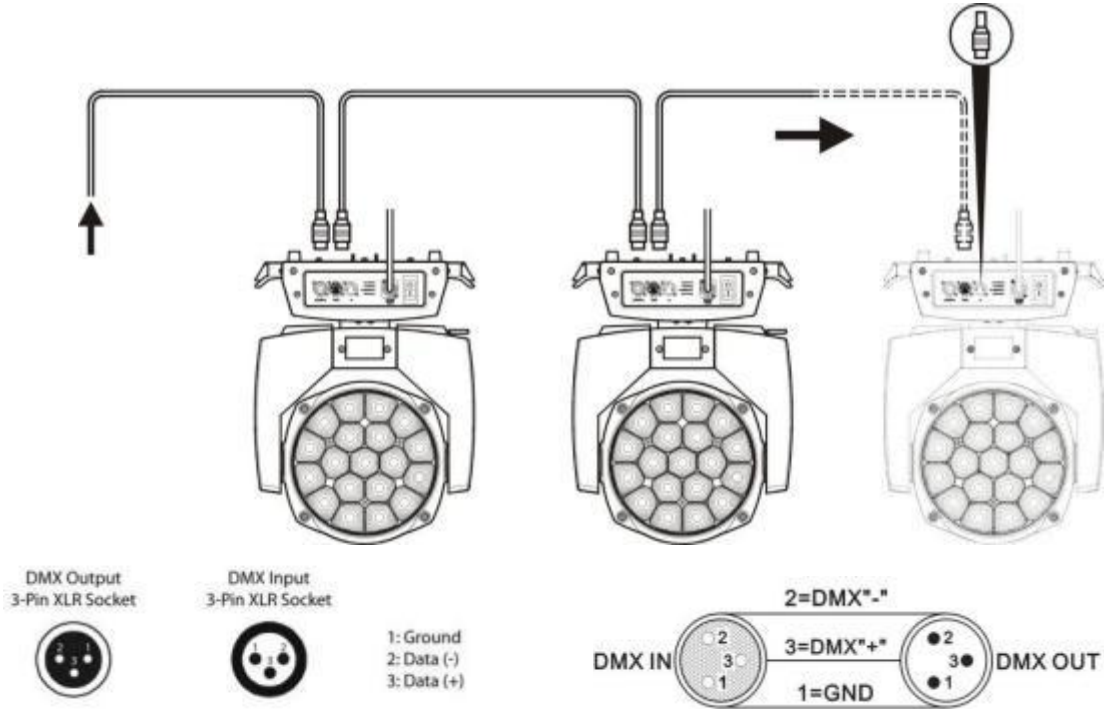
When installing this product on the truss, ensure the appropriate quick-release lock is properly secured at the designated quick-release mounting point, and fasten it with M10 screws. For enhanced safety, attach the safety rope to the product's base safety rope attachment point and secure it to the truss.



Regardless of the hanging method you choose, always remember to use a safety rope. The product is equipped with a dedicated safety rope attachment point at the bottom (refer to the image above). It is crucial to use the provided attachment point exclusively and never attach the safety rope to the handle.

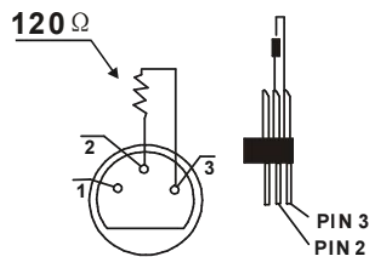
DMX-512 linkage

Connect the male end of the XLR signal cable to the controller's output port and the female end to the rear panel's input port. Multiple units can be connected in series. The cable must be three-core, shielded, and equipped with both XLR input and output connectors. Refer to the diagram below.



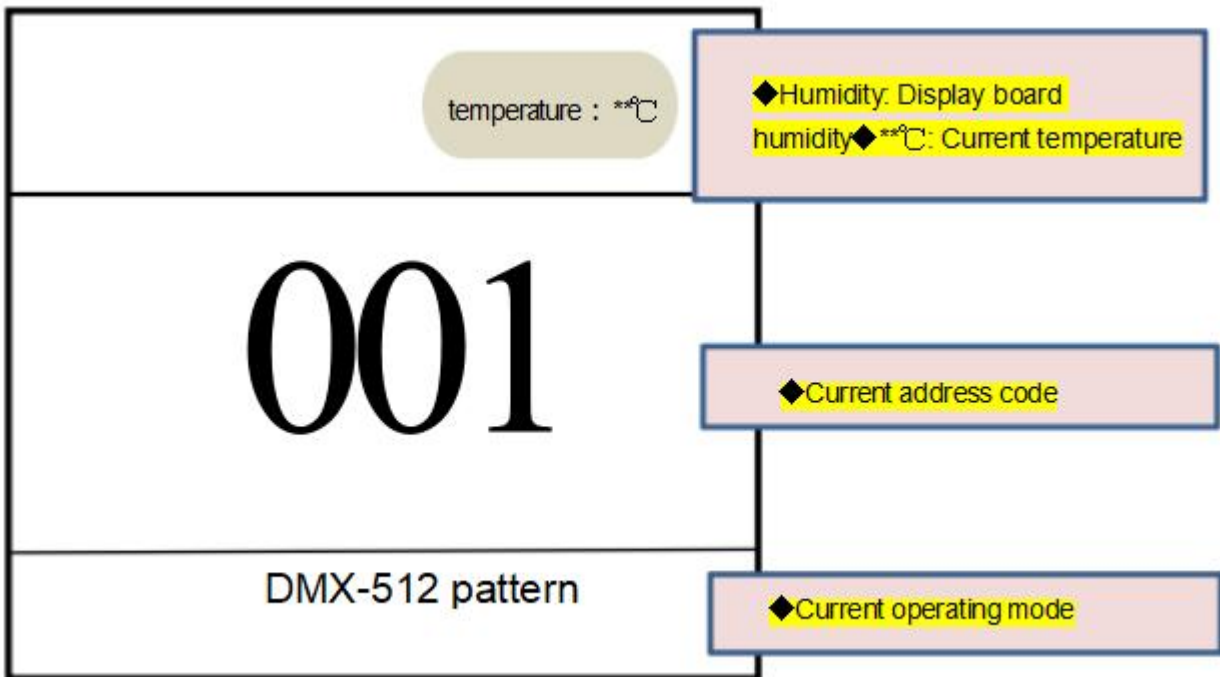
The DMX-512 connection requires a terminal (for loop connection)

During installation, if signal lines are extended over long distances or in noisy environments such as dance halls, using a DMX terminal (circuit connection) is recommended to prevent digital control signal interference caused by electrical noise. The DMX terminal consists of a simple XLR connector with 2-pin and 3-pin connections, linked to a 120-ohm resistor. Insert the terminal into the XLR output port of the last product, as shown in the figure below.



Menu Description

Menu Desktop



Single Interface



- ◆Address: Click to enter the address code
- ◆Settings: Click to enter system settings
- ◆Test: Click to enter manual mode
- ◆Calibration: Click to enter the password and enter the system calibration mode
- ◆Reset: Click to enter system reset mode
- ◆Information: Click to view system information

primary menu	Sub-menu	Three-level menu/parameters
address	001 - 512	(Add or subtract one)
System Settings	running mode	DMX/Trailer 1/Trailer 1/Voice Control
	channel pattern	27CH/41CH/84CH//103CH/98CH/117CH
	network settings	Set IP address and domain
	Horizontal Inversion	On/Off
	Vertical Reversal	On/Off
	Hall error correction	On/Off
	optical coupling error correction	On/Off
	signal holding	On/Off
	Screen Protector	On/Off
	Flip screen	On/Off/Auto
	Sync updates	On/Off
	language	the Chinese language /EN
	light dimming speed	Fast/Standard
	dimming curve	Curve 1/Curve 2/Curve 3/Curve 4
	dimming frequency	1K/4K/6K/10K/15K/25K
	Screen Lock	On/Off
	factory data reset	affirm
cancel		
manual mode	Current channel mode channel	Manual control mode
system calibration	Set calibration value	Set calibration value

system reset	actuator motor reset	actuator motor reset
	scan motor reset	scan motor reset
	Reset all motors	Reset all motors
system info	Reduction error message	Display reset error message
	DMX data monitoring	Channel value of the control console
	sensor information	Hall information
		X-ray coupling information
		Y optical coupling information
	Hardware version	Display hardware version
software release	Display software version	

➤ Screen rotation

The system automatically rotates the screen based on the direction of gravity without manual rotation. You can also disable the auto-rotation feature.

➤ manual control

This interface controls the current light.

Press OK to enter edit mode. Use the up and down keys to change channel values. Press OK again to save changes and exit edit. Press Exit to exit edit without saving changes.

➤ system calibration

A password is set here to prevent unauthorized access. Press OK to verify the password.

option	explain
initial position calibration	After entering the sub-interface, the reset position of the motor can be adjusted, such as the X-axis, Y-axis, focusing and rotation, to compensate for the error of hardware installation. The adjustment range is 0~255, and 127 indicates no adjustment.
white balance	After entering the sub-interface, you can adjust the white balance of red, green, blue, and white for the lamp and LED1-19. The adjustment range is 0 to 255, where 255 indicates no adjustment.
power	After entering the sub-interface, the power of the lamp can be adjusted, the adjustment range is 0-255,255 means no adjustment.

MIC sensitivity	Voice sensitivity calibration.
focusing control	Adjust the focus travel range from 0 to 255, where 255 is the maximum value and 0 indicates no adjustment.
change password	Change the password to access the system calibration interface.

➤reset

Press the up or down key to switch between reset modes. Press OK to reset directly.

option	explain
actuator motor reset	Reset effect panel except XY
scan motor reset	Reset only the XY axis
Reset all motors	Lamp reset

➤system info

option	explain
Reduction error message	If the red ERR indicator light illuminates, it indicates a malfunction in the lamp's operation. Detailed information can be accessed through this sub-interface.
DMX data monitoring	This will bring you to the sub-interface, where the channel values are displayed numerically for viewing.
sensor information	The real-time monitoring of the light on the various photoelectric switches, Hall and other sensors.
Hardware version	Lamp hardware information.
Software version	Lamp software version.

Channel Table

27 channel (27CH)	27+RGB channel (84CH)	27+RGB W channel (103CH)	function	DMX numeric value	description
1	1	1	red	0-255	Red linear dimming from dark to bright
2	2	2	Red fine-tuning	0-255	Red color is linearly adjusted from dark to light

3	3	3	green	0-255	Linear dimming from dark to bright
4	4	4	Green fine-tuning	0-255	The green color is linearly adjusted from dark to light.
5	5	5	blue	0-255	Blue linear dimming from dark to light
6	6	6	Blue fine-tuning	0-255	Adjust the blue color linearly from dark to light
7	7	7	white	0-255	Linear dimming from dark to bright
8	8	8	White fine-tuning	0-255	Linearly adjust the brightness from dark to light
9	9	9	colour temperature	0-255	linear color temperature adjustment
10	10	10	dye	0-255	Built-in color gradient
11	11	11	stroboflash	0-3	lighting-off
				4-103	The sync strobe speed gradually increases from slow to fast (1HZ-25HZ)
				104-107	light up
				108-207	The strobe speed is divided equally from slow to fast (1HZ-25HZ)
				208-212	light up
				213-225	low speed random strobe
				226-238	medium speed random strobe
				239-251	high speed random strobe
				252-255	light up
12	12	12	total dimming	0-255	Linear dimming from dark to bright
13	13	13	dimming fine adjustment	0-255	dimming fine control
14	14	14	X axle	0-255	0-540 degrees
15	15	15	X-axis fine-tuning	0-255	16-bit adjustable
16	16	16	Y axle	0-255	0-205 degrees

17	17	17	Y-axis fine-tuning	0-255	16-bit adjustable
18	18	18	function	0-255	obligate
19	19	19	reset	0-25	NF
				26-76	Head reset is effective for 5 seconds
				77-127	XY reset is valid for 5 seconds
				128-255	Full reset is valid for 5 seconds
20	20	20	focus	0-255	Linear adjustment of angle from small to large
21	21	21	halo dimming	0-255	0-100% Halo Dimming
22	22	22	halo strobismus	0-4	opening the light
				5-255	Synchronous strobe (from fast to slow)
23	23	23	Aurora Red	0-255	Aurora Red (from dark to light)
24	24	24	Aurora Green	0-255	Aurora Green (from dark to light)
25	25	25	Aurora Blue	0-255	Aurora Blue (from dark to light)
26	26	26	Halo effect	0-2	NF
				3-128	Halo Effect (3 effects per number)
				129-255	Halo effect (3 effects per number)
27	27	27	halo effect speed	0-127	The forward speed decreases from fast to slow.
				128-255	Reverse speed from slow to fast
	28	28	R1 LED dimming	0-255	R1 LED dimming
	29	29	G1 LED dimming	0-255	G1 LED dimming
	30	30	B1 LED dimming	0-255	B1 LED dimming
		31	WLED dimming	0-255	WLED dimming

	82	100	R19 LED dimming	0-255	R19 LED dimming
	83	101	G19 LED dimming	0-255	G19 LED dimming

	84	102	B19 LED dimming	0-255	B19 LED dimming
		103	W19 LED dimming	0-255	W19 LED dimming

41 channel	41+RGB channel (98CH)	41+RGB channel (117CH)	function	DMX numeric value	description
1	1	1	red	0-255	Red linear dimming from dark to bright
2	2	2	Red fine-tuning	0-255	Red color is linearly adjusted from dark to light
3	3	3	green	0-255	Linear dimming from dark to bright
4	4	4	Green fine-tuning	0-255	The green color is linearly adjusted from dark to light.
5	5	5	blue	0-255	Blue linear dimming from dark to light
6	6	6	Blue fine-tuning	0-255	Adjust the blue color linearly from dark to light
7	7	7	white	0-255	Linear dimming from dark to bright
8	8	8	White fine-tuning	0-255	Linearly adjust the brightness from dark to light
9	9	9	colour temperature	0-255	linear color temperature adjustment
10	10	10	dye	0-255	Built-in color gradient
11	11	11	strobeflash	0-3	lighting-off
				4-103	The sync strobe speed gradually increases from slow to fast (1HZ-25HZ)
				104-107	light up
				108-207	The strobe speed is divided equally from slow to fast (1HZ-25HZ)
				208-212	light up
				213-225	low speed random strobe
				226-238	medium speed random strobe
				239-251	high speed random strobe
				252-255	light up
12	12	12	total dimming	0-255	Linear dimming from dark to bright
13	13	13	dimming fine	0-255	dimming fine control

			adjustment		
14	14	14	X axle	0-255	0-540 degrees
15	15	15	X-axis fine-tuning	0-255	16-bit adjustable
16	16	16	Y axle	0-255	0-205 degrees
17	17	17	Y-axis fine-tuning	0-255	16-bit adjustable
18	18	18	function	0-255	obligate
19	19	19	reset	0-25	NF
				26-76	Head reset is effective for 5 seconds
				77-127	XY reset is valid for 5 seconds
				128-255	Full reset is valid for 5 seconds
20	20	20	focus	0-255	Linear adjustment of angle from small to large
21	21	21	Dynamic Effects Cooperation effect color colour)	0-7	not have
				8	Static Effects 1
				9	Static Effects 2
				10	Static Effects 3
				11	not have
				12	Static Effect 4
				13	Static Effects 5
				14	not have
15	Dynamic Effect 1				
16	Dynamic Effect 2				
17	Dynamic Effect 3				
18	Dynamic Effect 4				
19	monochromatic random				
20	Full Color Random				
21	Rainbow Effect 1				
22	Rainbow Effect 2				
23	Dynamic Effect 5				
24	Dynamic Effect 6				
25	Dynamic Effects 7				
26	Dynamic Effect 8				
27	Dynamic Effect 9				
28	Dynamic Effect 10				
29	Dynamic Effect 11				
30	Dynamic Effect 12				
31	Dynamic Effect 13				

			32	Dynamic Effect 14
			33	not have
			34	not have
			35	Dynamic Effect 15
			36	Dynamic Effect 16
			37	Dynamic Effect 17
			38	Dynamic Effect 18
			39	Dynamic Effect 19
			40	Dynamic Effect 20
			41	not have
			42	Dynamic Effects 21
			43	not have
			44	Dynamic Effect 22
			45	Dynamic Effects 23
			46	Dynamic Effect 24
			47	Dynamic Effects 25
			48	Dynamic Effects 26
			49	Dynamic Effects 27
			50	Dynamic Effects 28
			51	Dynamic Effects 29
			52	Dynamic Effect 30
			53	Dynamic Effects 31
			54	Dynamic Effect 32
			55	Dynamic Effects 33
			56	Dynamic Effects 34
			57	Dynamic Effects 35
			58	Dynamic Effect 36
			59	Dynamic Effects 37
			60	Dynamic Effects 38
			61	Random Position 1
			62	Random Position 2
			63	Random Position 3
			64	not have
			65	Random Position 4
			66	Random Position 5
			67	Dynamic Effects 39
			68	Dynamic Effect 40
			69	not have
			70	Dynamic Effect 41
			71-255	not have

22	22	22	Dynamic effect speed	0-63	Static effect
				64-158	From fast to slow in the forward direction
				159-160	static
				161-255	Reverse from slow to fast
23	23	23	Effect fade	0-255	Fade
24	24	24	Effect: Red	0-255	Dynamic effect red
25	25	25	Effect: Green	0-255	Dynamic effect green
26	26	26	Effect Blue	0-255	Dynamic Effect Blue
27	27	27	Effect: White	0-255	Dynamic Effect White
28	28	28	Effect dimming	0-255	Pattern 0-100% dimming
29	29	29	background dimming	0-255	Background 0-100% dimming
30	30	30	Effect Transition	0-255	pattern variation control
31	31	31	Offset	0-255	Dynamic effect translation
32	32	32	foreground strobe	0-255	Frontal strobe (same as channel 11)
33	33	33	background strobe	0-255	Background strobe (same as channel 11)
34	34	34	background selection	0-255	background selection
35	35	35	halo dimming	0-255	0-100% Halo Dimming
36	36	36	halo strobismus	0-4	opening the light
				5-255	Synchronous strobe (from fast to slow)
37	37	37	Aurora Red	0-255	Aurora Red (from dark to light)
38	38	38	Aurora Green	0-255	Aurora Green (from dark to light)
39	39	39	Aurora Blue	0-255	Aurora Blue (from dark to light)
40	40	40	Halo effect	0-7	NF
				8-255	Overall Halo Effect
41	41	41	halo effect speed	0-127	The forward speed decreases from fast to slow.
				128-255	Reverse speed from slow to fast
	42	42	R1 LED dimming	0-255	R1 LED dimming
	43	43	G1 LED dimming	0-255	G1 LED dimming
	44	44	B1 LED dimming	0-255	B1 LED dimming
		45	WLED	0-255	WLED dimming

			dimming		

	96	114	R19 LED dimming	0-255	R19 LED dimming
	97	115	G19 LED dimming	0-255	G19 LED dimming
	98	116	B19 LED dimming	0-255	B19 LED dimming
		117	W19 LED dimming	0-255	W19 LED dimming

Product Maintenance and Cleaning

When testing this product, please note the following points:

1. All screws and components of the installed product must be securely fastened and rust-free.
2. The housing, lenses, fasteners, and mounting locations (e.g., ceiling, suspension brackets, trusses, etc.) must remain undistorted.
3. The mechanical moving parts must not exhibit wear or rotate unbalance.
4. The power cord must be free from any damage, including material peeling or scratches.

The installation and use of the product must be performed by trained professional technicians to ensure the elimination of safety hazards.

Note: Please unplug the power cord before product maintenance!!

To maintain optimal product condition and prolong its service life, we recommend routine cleaning.

1. Clean both the external and internal lenses weekly to prevent dust buildup that could reduce the product's light output.
2. Clean the fan every week.
3. Every three months, a certified electrical engineer conducts a thorough circuit inspection to ensure proper connections, preventing aging caused by overheating.

We recommend regular cleaning of the product. Please note that do not use damp or linen cloths, and absolutely avoid using alcohol or solvents for cleaning.

This product does not include replacement parts. Refer to the "Installation Instructions" section.

If you need any spare parts, purchase them from your local dealer.

REMARK

The product has perfect performance and integrity packing.

All users should be strictly comply 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.

Errors and omissions for every information given in this manual excepted.

All information is subject to change without prior notice.