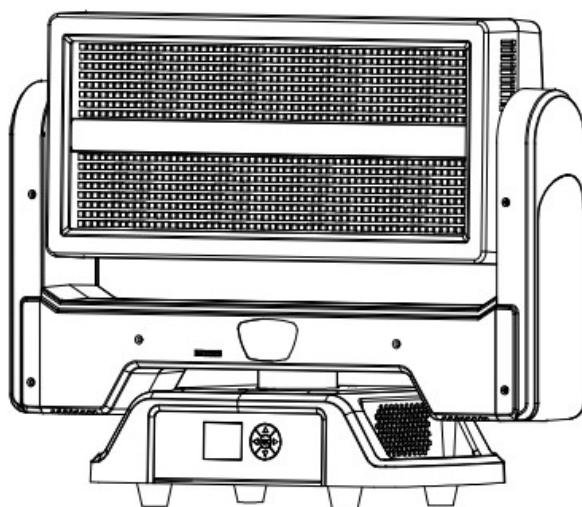


Instruction Manual

PROFESSIONAL SHOW LIGHT

LED Moving Storm 2000 Plus



Unpacking: Thank you for purchasing the LED lighting. Every fixture has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit has arrived intact. In the case damage has been found or parts are missing, please contact the manufacturer or your dealer for further instructions. Do not return this unit to your dealer without first contacting.

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE POWERING OR INSTALLING LED lightings. SAVE IT FOR FUTURE REFERENCE.

Warning! To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

PLEASE consider that damages caused by manual modifications to the device are not subject to warranty.

Caution! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself; doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact the manufacturer or your dealer.

PLEASE recycle the shipping carton whenever possible.

General Instructions: To optimize the performance of this product, please read these operating instructions carefully to familiarize you with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit.

Features

- RGBW Colors
- Color Strobe
- Electronic Dimming 0-100%
- DMX-512 protocol
- Master/Slave synchronization
- LCD operation menu with function
- Daisy Chain Units Together in DMX Mode
- With pixel control in multiple group

Safety Precautions

- To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
- Do not spill water or other liquids into or on to your unit.
- Be sure that the local power outlet match that of the required voltage for your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken. Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.
- Never operate this unit when it's cover is removed.
- Never plug this unit in to a dimmer pack.
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.

- Do not attempt to operate this unit, if it becomes damaged.
- This unit is intended for indoor use only; use of this product outdoors voids all warranties.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point they exit from the unit.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See "Cleaning" for details.
- Heat -The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the appliance.
 - C. The appliance has been exposed to rain or water.
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance.

Set Up:


Power Supply: Before plugging your unit in, be sure the source voltage in your area matches the required voltage for the fixture, The model is Auto power supply, It is workable in 90-250V/50~60Hz. Please make sure your unit voltage matches the wall outlet voltage before attempting to operate you fixture.

Connection to the mains

For protection from electric shock, the fixture must be earthed!

Install a suitable plug on the power cord. note that the cores in the power cord are colored according to the following table. The earth has to be connected!

If you have any doubts about proper installation, consult a qualified electrician.

Core (EU)	Core (US)	Connection	Plug Terminal Marking
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	

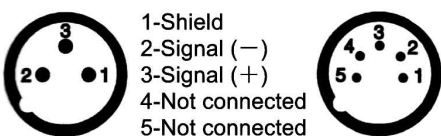
DMX512 connection

The fixture is equipped with both 3pin or 5pin XLR sockets for DMX input and output. The sockets are wired in parallel.

Only use a shielded twisted-pair cable designed for RS-485 and 3pin or 5pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

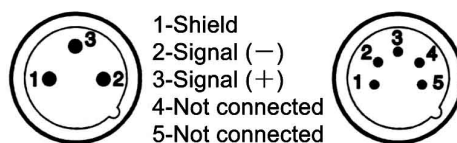
DMX-output

XLR mounting-sockets (rear view):



DMX-input

XLR mounting-plugs (rear view):



DMX Linking: To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

Building a serial DMX-chain:

Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.

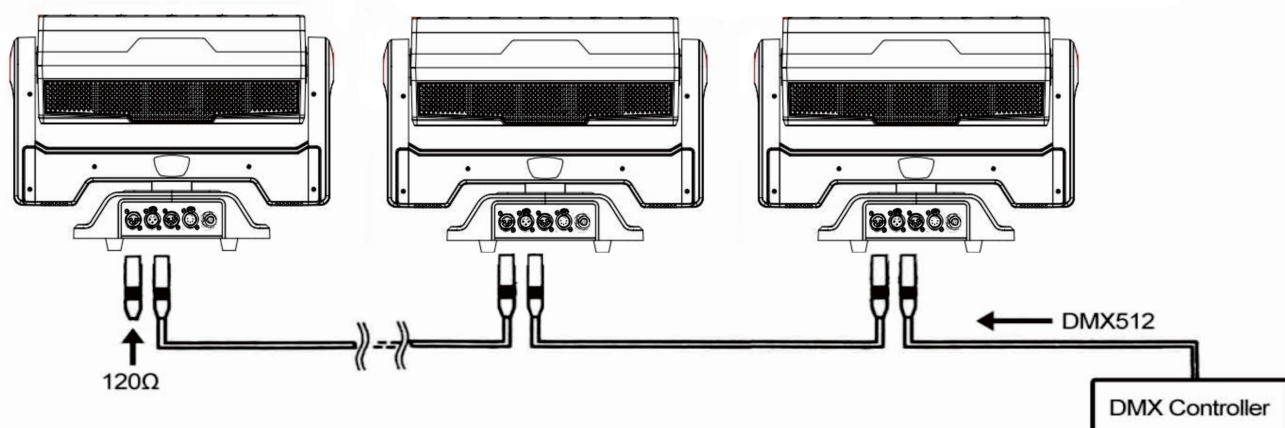
Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120Ω resistor between Signal (–) and Signal (+) into a 3pin XLR-plug and plug it in the DMX-output of the last fixture.

Operating Modes: You can use the LED moving storm2000 plus in 3 ways:

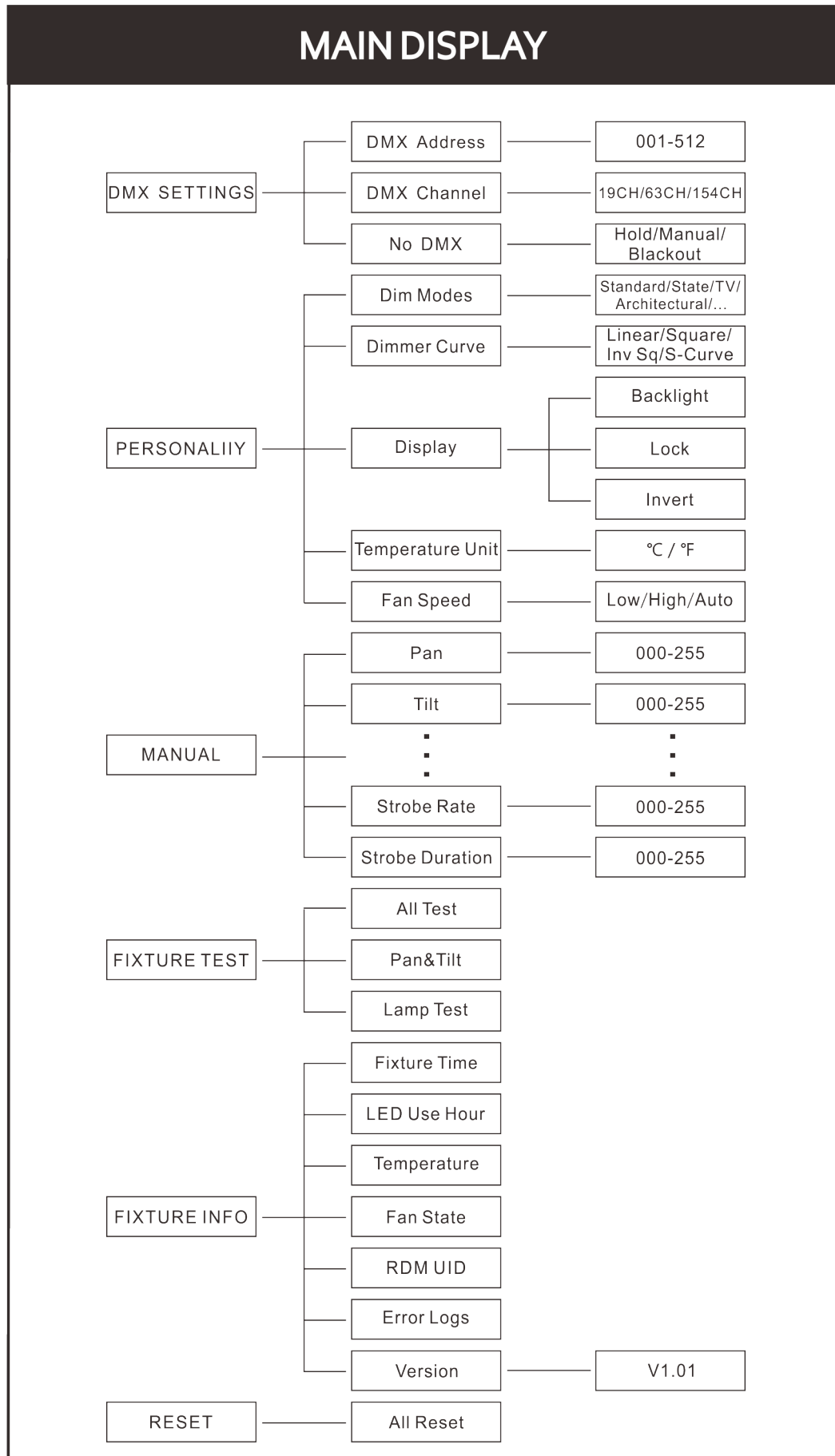
- Auto Mode - The unit automatically chase through the different colors and built-in programs.
- Slave Mode – The unit is available work by slave mode.
- DMX control mode - This function allows you to control each individual fixtures traits with a standard DMX 512 controller.

DMX Mode: Operating through a DMX controller give the user the freedom to create their own programs tailored to their own individual needs. This function also allows you to use your fixtures as beam lights.

1. This function will allow you to control each individual fixture's traits with a standard DMX 512 controller.
2. The fixture uses 19/63/154 DMX channels (RGBW version) to operate. Please see "DMX Values and Functions" for the DMX traits.
3. To run your fixture in DMX mode, plug in the fixture via the XLR connections to any standard DMX controller. Set your desired DMX address following the setup specifications that come with your DMX controller.



LCD DISPLAY MENU:



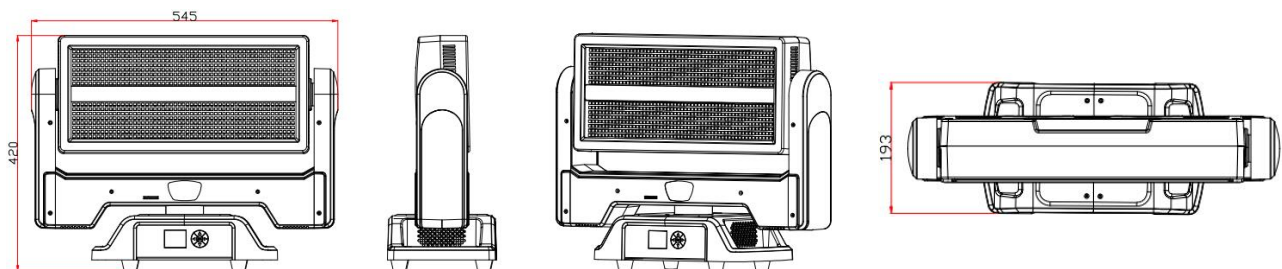
DMX CHANNEL CHART:

19 Channel	63 Channel	154 Channel	Name	DMX Value	Description
1	1	1	Dimmer	000-255	0-100% Dimmer
2	2	2	Strobe	000-002	Open
				003-005	Strobe
				006-050	Ramp Up
				051-100	Ramp Down
				101-150	Lightning
				151-200	Open
				201-255	Random
3	3	3	Strobe Rate	000-255	Slow-Fast
4	4	4	Strobe Duration	000-255	Slow-Fast
5	5	5	Pan	000-255	0-100% Pan
6	6	6	Pan Fine	000-255	0-100% Pan Fine
7	7	7	Tilt	000-255	0-100% Tilt
8	8	8	Tilt Fine	000-255	0-100% Tilt Fine
9	9	9	P/T Speed	000-255	Fast-Slow
10	10	10	Pan Infinity	000-137	Open
				138-204	Backward Rotation Fast-Slow
				205-208	Stop
				209-255	Forward Rotation Slow-Fast
11	11	11	Tilt Infinity	000-137	Open
				138-204	Backward Rotation Fast-Slow
				205-208	Stop
				209-255	Forward Rotation Slow-Fast
12	12	*	Red	000-255	Red Intensity
13	13	*	Green	000-255	Green Intensity
14	14	*	Blue	000-255	Blue Intensity
15	15	*	White	000-255	White Intensity
16	16	*	RGB Effect Color	000-255	RGB Effect Color

17	17	*	RGB Effect	000 - 005	No function
				006 - 015	Macro1
				016 - 025	Macro2
				026 - 035	Macro3
				036 - 045	Macro4
				046 - 055	Macro5
				056 - 065	Macro6
				066 - 075	Macro7
				076 - 085	Macro8
				086 - 095	Macro9
				096 - 105	Macro10
				106 - 115	Macro11
				116 - 125	Macro12
				126 - 135	Macro13
				136 - 145	Macro14
				146 - 155	Macro15
				156 - 165	Macro16
				166 - 175	Macro17
				176 - 185	Macro18
				186 - 195	Macro19
				196 - 205	Macro20
				206 - 215	Macro21
				216 - 225	Macro22
				226 - 235	Macro23
				236 - 245	Macro24
				246 - 255	Macro25
18	18	*		000 - 005	No function
				006 - 033	Macro1
				034 - 060	Macro2
				061 - 088	Macro3
				089 - 116	Macro4

				117 - 144	Macro5
				145 - 172	Macro6
				173 - 200	Macro7
				201 - 228	Macro8
				229 - 255	Macro9
19	19	*	Effect Speed	000-255	Slow-Fast
	20	12	LED Color	000-255	Red1 Intensity
	21	13	LED Color	000-255	Green1 Intensity
	22	14	LED Color	000-255	Blue1 Intensity
	LED Color	000-255	...
	50	42	LED Color	000-255	Red11 Intensity
	51	43	LED Color	000-255	Green11 Intensity
	52	44	LED Color	000-255	Blue11 Intensity
	*	...	LED Color	000-255	...
	*	141	LED Color	000-255	Red44 Intensity
	*	142	LED Color	000-255	Green44 Intensity
	*	143	LED Color	000-255	Blue44 Intensity
	53	144	LED Color	000-255	White1 Intensity
	54	145	LED Color	000-255	White2 Intensity
	LED Color	000-255	...
	62	153	LED Color	000-255	White10 Intensity
	63	154	LED Color	000-255	White11 Intensity

Chart Size: 545*193*420mm



Rigging the fixture

Caution: Fixture may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the moving head!

Before rigging make sure that the installation area can hold a minimum point load of 10 times the fixture's weight.

When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in a distance of min. 1.0 m.

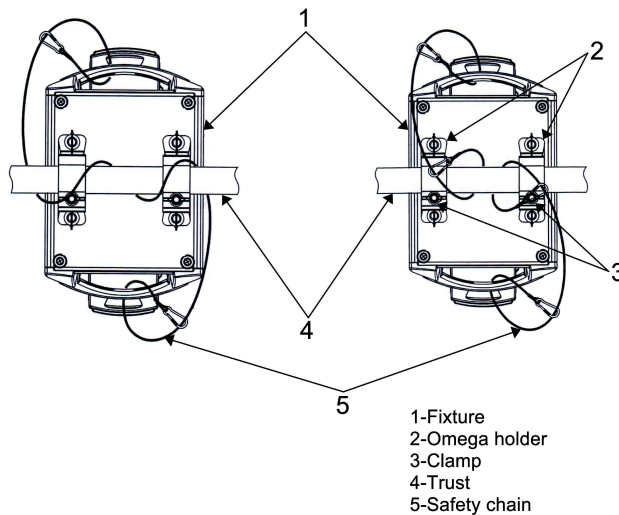
CAUTION! Use an appropriate clamp to ring the fixture on the truss.

Follow the instructions mentioned at the bottom of the base.

Make sure that the device is fixed properly! Ensure that the structure (truss) to which you are attaching the fixtures is secure.

Securing the fixture via one safety wire

Securing the fixture via two safety wires



Cleaning

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

Unit not respond to DMX:

1. Check that the DMX cables are connected properly and are wired correctly (pin 3 is "hot"; on some other DMX devices pin 5 may be 'hot'). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.

Technical Specifications

- **Model: LED moving strom2000 plus**
- Total power: 800W
- Voltage: AC100~240V 50/60HZ
- Working position: any safe working position
- Operating temperature: -30 degrees ~ 50 degrees
- Lamp: 5050 0.5W RGB LED*880pcs
3535 5W white LED * 55pcs
- Block pixel: RGB 20pcs set* 44 segments
White 5pcs set * 11 segments
- Display: LCD display
- With RDM
- Channel: 19/63/154 channels
- Control mode: DMX512, self-propelled master-slave, stand-alone mode
- Protection rate: IP20
- **Pan/Tilt infinitely rotation**
- **Strong Strobe Effect**
- Power connector: Powercon input / output
- Input / output: 3pin DMX input / output
- Size: 545*193*420mm
- Net weight: 13kgs

Note: All information is subject to change without prior notice.