

***MICROH***  
**PROFESSIONAL PRODUCTS**

***RIO ZOOM 19 QUAD***



**USER MANUAL**

Thank you for purchasing **RIO ZOOM19 QUAD**. Every unit 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 RIO ZOOM19 QUAD 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.

**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.

## 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 matches 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 your **RIO ZOOM19 QUAD**. The model is has an Auto switching power supply which allows the unit to operate at 90-250V/50~60Hz.

## 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	

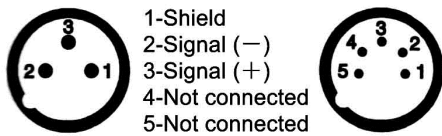
## DMX512 connection

The fixture is equipped with 3-pin or 5-pin 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 3-pin or 5-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

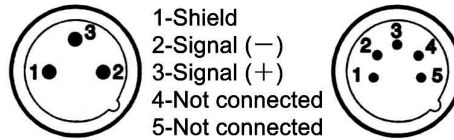
### DMX-output

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.

**Operating Modes:** You can use the **RIO ZOOM19 QUAD** in 4 ways:

- Auto Mode - The unit will automatically chase through the different colors and built-in programs.
- Slave Mode – The unit will run under slave mode.
- DMX control mode - This function will allow you to control each individual fixtures traits with a standard DMX 512 controller.
- Sound mode- This function allows you to control fixture via sound.

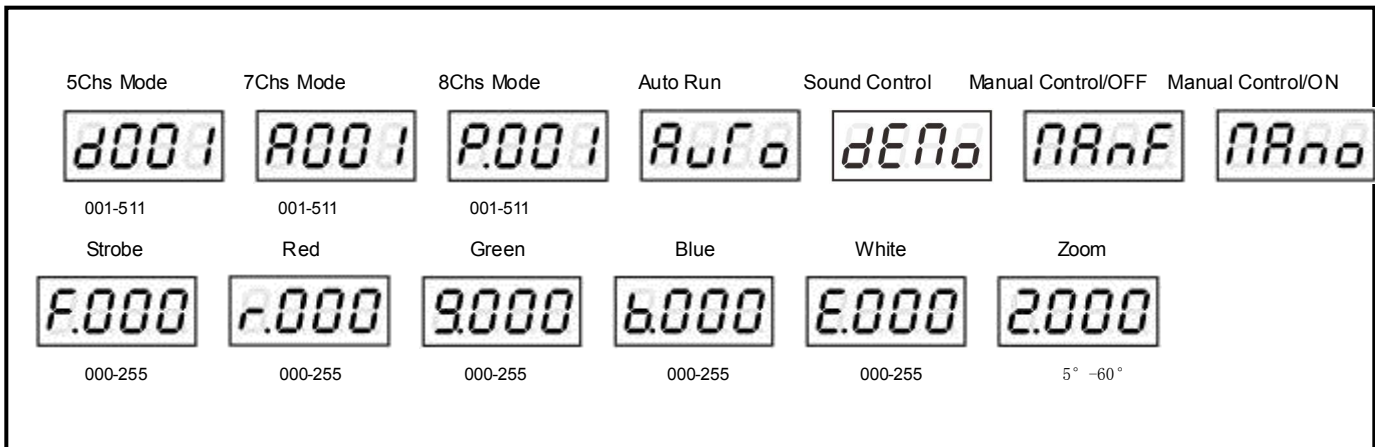
**DMX Mode:** Operating through a DMX controller give the user the freedom to create their own programs tailored to their own individual needs. This function also allows you to use your fixtures as spot lights.

1. This function will allow you to control each individual fixture's traits with a standard DMX 512 controller.
2. The **RIO ZOOM19 QUAD** uses 5/7/8 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.
- 4.

**Main Control Menu**

The control board on the fixture base is your interface to access and control all functions on the unit, Its digital display gives you a code vide of functions

CONTROL BOARD



**DMX Chart:**

**[d.001] Mode (5 DMX Channels)**

CHANNEL	VALUE	FUNCTION
1	0-255	Zoom function 5° -60°
2	0-255	Red intensity
3	0-255	Green intensity
4	0-255	Blue intensity
5	0-255	White intensity

**[A.001] Mode ( 7 DMX Channels)**

CHANNEL	VALUE	FUNCTION
1	0-255	Zoom function 5° -60°
2	0-255	Dimmer
3	0-3	No function
	4-127	Strobe ( Slow-Fast)
	128-131	No function
	132-255	Random Strobe ( Slow-Fast)
4	0-255	Red intensity
5	0-255	Green intensity
6	0-255	Blue intensity
7	0-255	White intensity

**[P.001] Mode (8 DMX Channels)**

CHANNEL	VALUE	FUNCTION
1	0-255	Zoom function 5° -60°
2	0-255	Dimmer
3	0-3	No function
	4-127	Strobe ( Slow-Fast)
	128-131	No function
	132-255	Random Strobe ( Slow-Fast)
4	0-7	No Function
	8-15	Red
	16-23	Green
	24-31	Blue
	32-39	White
	40-47	Red+Green
	48-55	Green+Blue
	56-63	Red+Blue
	64-71	Red+White
	72-79	Green+White
4	80-87	Blue+White
	88-95	Red+Green+Blue
	96-103	Red+Green+White
	104-111	Red+Blue+White
	112-119	Green+Blue+White
	120-127	Red+Green+Blue+White
	128-135	Off
136-143	Red Fade in/out	

	144-151	Green Fade in/out
	152-159	Blue Fade In/out
	160-167	White Fade In/out
	168-175	Red+Green Fade in/out
	176-183	Red+Blue Fade in/out
	184-191	Green+Blue Fade In/out
	192-199	Red+White Fade In/out
	200-207	Green+White Fade In/out
	208-215	Blue+White Fade In/out
	216-223	Red+Blue+White Fade In/out
	224-231	Red+Green+Blue Fade In/out
	232-239	Red+Gree+White Fade In/out
	240-249	Green+Blue+White Fade In/out
	250-255	Red+Gree+Blue+White In/out
5	0-255	Red intensity
6	0-255	Green intensity
7	0-255	Blue intensity
8	0-255	White intensity

## 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).

## Specifications

Model: **RIO ZOOM19 QUAD**

Working Position: Any safe working position

Voltage: 90-250V / 50~60Hz

Power:300W

**LED Lamp : OSRAM 4in1(RGBW) 15W\*19pcs**

DMX Channel: 5/7/8 channel mode

Zoom angle: 5°-60°

Waterproof rate: IP20

Gross Weight: 7 Kgs

Warranty: **2 Year**

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