



USER MANUAL
LED QUADPAR TRI MKII

Keep this manual for future reference.

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1. INTRODUCTION AND UNPACKING

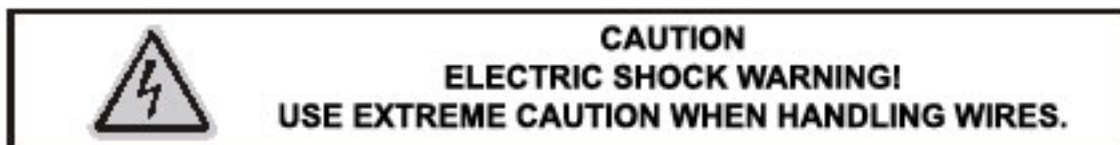
Thank you for purchasing the MICROH LED QUADPAR TRI MKII wash fixture. For your own safety and knowledge, please read this manual before installing or operating the device. This manual covers the important information on installation and applications. Please install and operate the fixture according to instructions. Meanwhile, please keep this manual for future reference.

The MICROH LED QUADPAR TRI MKII pack-and-go LED wash par system is made of a new type of high temperature cast aluminum casing. The fixture is designed and manufactured strictly following CE standards, complying with international standard DMX512 protocol. This fixture is applicable but not limited to large-scale live performances, theater, studio, nightclubs and discos.

The MICROH LED QUADPAR TRI MKII wash fixture uses 436 powerful 10mm LED's (109 per head – 20 Red, 52 Green, 37 Blue) which feature high brightness and stability. Please carefully unpack it when you receive the fixture and check if it was damaged during the transportation. And please check whether the following items are included inside the box:

Par Bar – One	4-Pedal Foot Switch – One	Adjustable Tripod – One	Power Cord – One
Bag for Par Bar – One	Bag for Tripod Stand – One	Foot Switch Controller Cable – One	User Manual - One

2. SAFETY INSTRUCTIONS



This device has left the factory in perfect condition. In order to maintain this condition and to ensure safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.



Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

If the device has been exposed to temperature changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature, and is dry.

This device falls under protection-class I, therefore it is essential that the device be grounded. The electrical connection must be carried out by a qualified technician.

The device should only be used with rate voltage and frequency. Make sure that the available voltage is not higher than 120V as stated at the end of this manual.

Make sure the power cord is never crimped or damaged in any way, as this could cause shock and damage. If your power chord is damaged in any way, please purchase a new cable from your local MICROH dealer. Always disconnect power, when the device is not in use or before cleaning it. Never pull out the plug by tugging the power cord.

During initial start-up, some smoke or smell may arise. This is a normal process, and does not necessarily mean that the device is defective. It should decrease gradually. Please do not project the beam onto combustible substances.

Fixtures cannot be installed on or near combustible substances. Keep more than 50cm distance from wall for proper ventilation and air flow. If your fixture is or has become damaged in any way, it shall be exclusively replaced or repaired by the manufacturer to avoid any hazard.



CAUTION!

Never touch the device during operation!
The housing may heat up



CAUTION!

Never look directly into the light source,
as sensitive persons may suffer an epileptic shock.



CAUTION!

The electric connection must only be carried out by a qualified electrician.

3. OPERATION INSTRUCTIONS

- Do not turn on the fixture if it has been through severe temperature differences. Damage may occur to the fixture. Wait until unit is at room temperature to operate.
- The unit should be protected from any tremor or agitation during transport.
- Do not expose the fixture in any excessive heat, moisture or any environment with too much dust when installing. Do not lay any power cables on the floor. It may cause electronic shock or damage to persons or equipment.
- Make sure to attach the safety chain and ensure the screws are properly screwed in when installing the fixture.
- Make sure the lens is in good condition. It is recommended to replace the unit if there are any damages or severe scratches.
- Make sure the fixture is operated and installed by qualified personnel.
- Keep the original packaging in case of defective product.

- Any non-manufacturer additions, modifications or changes in any way will void all warranty.

- Please do not attempt to open unit. It is only to be serviced by an authorized technician. If this occurs, or is apparent, the warranty will be voided.

- The fixture's warranty will be voided if there are any malfunctions from not following the user manual or any illegal operation (shock short circuit, electronic shock, lamp broke, etc.)

-This fixture is equipped with 9 operating modes. **4 Pedal Foot Switch, Manual Colour Dimming, Built-in Program, Auto, Sound Active, Master/Slave, DMX & IR Remote.**

Press MODE and SET UP button simultaneously to run the auto-run program mode. To make the display stay on continuously, press the MODE and UP buttons simultaneously. To make the display turn off after 20 seconds, press the MODE and DOWN buttons simultaneously.

4-PEDAL FOOT SWITCH MODE

- In any mode, you will enter the foot pedal controller function when you set foot on any of the foot pedals. The functions for the pedal are:

- 1.BLACK OUT is to turn off the light;

- 2.FREEZE is to lock the current condition;

- 3.SOUND ACTIVE is for sound active function;

- 4.PRESET is to select the built in programs and the static colours. The designed order is: program1 (static colour) → program2 → program3 → program4 → program5 → program6 → program7 → program8 → program9 → program10 → program11 → program12 → auto run → red → green → blue → yellow → purple → cyan → white

Note: 1. Keep pressing the PRESET foot pedal, the fixture will run the program in the designed order by cycle.

2. When press the FREEZE foot pedal, the fixture will lock the current condition. Press the FREEZE foot pedal again, and the fixture will continue running the previous program you have select.

3. When the fixture is in the foot pedal controller function, the LED digital display will show the current running program.

MANUAL COLOUR DIMMING MODE

- Press MODE button, press SETUP to choose colour and flash speed, red "r.×××", green "G.×××", blue "b.×××"

- Press SETUP to choose different colour, Press UP or DOWN button to set the dimming rate (0-255).

- When "FS.XX" is displayed, press UP or DOWN to select flash speed 0-99, 0 is turn off flash, 1 is the slowest, 99 is the fastest.

BUILT-IN PROGRAM MODE

- Press MODE button to select built-in program mode, "Pr.XX" is displayed. Press SETUP button choose the program, the colour jumping speed and flash speed, when "Pr.XX" is displayed, press UP or DOWN button to set the program 1-12, total 12 programs.

- When "SP.XX" is displayed, press UP or DOWN to set the jumping speed (1-99), when "FS.XX" is displayed, press UP or DOWN to set the flash speed (0-99), "0" is turn off flash.

- Notice: " Pr.01" is static colour select program. There are 8 colours to choose from. Press the SET UP button to enter the static colour submenu. When "CL.-X" is displayed press UP or DOWN buttons to scroll through the static colours.

AUTO MODE

- Press MODE button, when "AUTO." is displayed, the built-in programs run one after another in a continuous loop.

- When "SP.XX" is displayed, press UP or DOWN to set the colour jumping speed (0-99), "0" is turn off flash.

- When "FS.XX" is displayed, press UP or DOWN button to adjust the strobe speed(0-99), "0" is turn off flash.

SOUND ACTIVE MODE

- Press MODE button, "SU.XX" is display, and then press UP or DOWN button to set the sound level (0-31). Under this mode, the SETUP button does not function.

MASTER/SLAVE MODE

- To activate slave mode press MODE button, "SLAU." is displayed. Under this mode SET UP, UP and DOWN do not function.

DMX MODE

- Press MODE button. When "d.XXX" is displayed, press SET UP to choose the DMX address or DMX mode. When "d.XXX" is displayed, press UP or DOWN to select the DMX address 1-512.

- When "d-P.X" is displayed, press UP or DOWN button to choose the DMX mode 1-7. When there is no controller signal, the display will flash, and turn off.

IR REMOTE MODE

You may also operate this fixture by optional IR remote sold separately (LEDQUADPAR-REMOTE). Operating distance of 10M.

Notice: IR remote is ready to control the product which is in any working mode.



AUTO MODE: Press AUTO RUN to choose Auto mode. Press FLASH to turn on/off the flash of the Auto Run, and then pressing "+" and "-" buttons to adjust flash speed. Press SPEED to control the speed of the Auto Run, and then pressing "+" and "-" buttons to adjust it.

BUILT-IN PROGRAM MODE: Press PROG to set built-in program mode. Press "+" or "-" to program (Pressing FLASH /SPEED will change the strobe rate and speed of the program). Press FLASH to turn on/off flash and press "+" or "-" to adjust the flash speed. Press SPEED to set the program running speed and press "+" or "-" to adjust it. **Notice:** "Pr.01" is a static colour program. There are 8 colours to choose from. Press the SPEED button to enter the static colour submenu, and then pressing "+" and "-" buttons to scroll through the static colours.

SLAVE MODE: Press SL to display SLAVE mode. The R/G/B lights are off when without a master light.

SOUND ACTIVE MODE: Press SA to display sound active mode, and pressing "+" and "-" buttons to adjust sensitivity level.

MANUAL COLOUR DIMMING MODE: Press R/G/B to choose program mode, and press "+" and "-" buttons to adjust the intensity of the light. Press FLASH to turn on/off flash effect, pressing "+" and "-" buttons to adjust the flash speed.

DMX MODE: There are seven DMX modes: 2, 3, 4, 7, 8, 14, or 15 Channels. You must set the DMX Channel mode before you address the fixture. To select your desired DMX Channel mode press the DMX mode button, and then press the "+" or "-" buttons to scroll through the DMX Channel modes.

- If Red LED's glow you are in DMX Mode 1: 3 DMX Channels
- If Green LED's glow you are in DMX Mode 2: 4 DMX Channels
- If Blue LED's glow you are in DMX Mode 3: 8 DMX Channels
- If Red and Green LED's glow you are in DMX Mode 4: 14 DMX Channels
- If Red and Blue LED's glow you are in DMX Mode 5: 2 DMX Channels
- If Green and Blue LED's glow you are in DMX Mode 6: 15 DMX Channels
- If all the LED's glow you are in DMX Mode 7: 7 DMX Channels

SETTING ADDRESS: Press S button to set the DMX address or initialize the program, then the red, green lights will flash 2~3 times. Please put in 3 numbers, for example, 1 2 3. After the red light is on, please put in the first number. After the first number is accessed the green light will be on, then put in the second number. When the blue light is on, please put in the third number. After all the three numbers are entered, the red, green & blue lights will flash 2~3 times, which indicates that the DMX address is correct and it entered the DMX MODE automatically. If the address is wrong the red light will be on. (Auto mode will be applied when numbers 951 are pressed. The yellow light will turn on, press 0 to initialize auto program). If the address is greater than 512, the red light will turn on, indicating new address should be put in. Then the system will run in the designated mode.

BLACK OUT MODE: Press BLACK OUT to set the LED lights power on or power off by pressing this button.

4. MOUNTING AND INSTALLATION

Caution: For added protection, mount the fixtures in areas outside walking paths, seating areas, or in areas where the fixture might be reached by unauthorized personnel. Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight. Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable. Never stand directly below the device when mounting, removing, or servicing the fixture.

Whether installing inverted on a truss or ceiling, or set on a flat level surface (see image below). Be sure this fixture is kept at least 0.5m (1.5 ft) away from any flammable materials (decoration etc.). Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

Mounting Points: Overhead mounting requires extensive experience, including calculating working load limits. A knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture are all imperative and should only be performed by a qualified technician. Improper installation can result in bodily injury and damage.

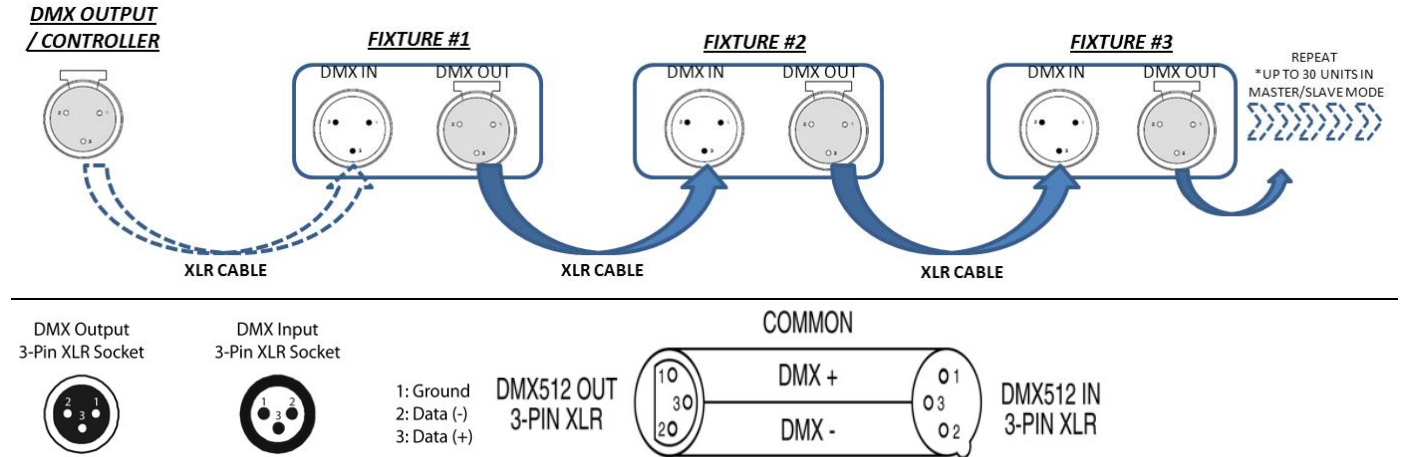
The MICROH LED QUADPAR SERIES can be mounted by using the pole mount on the base of the T bar. Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

The MICROH LED QUADPAR SERIES has a folding bar mechanism that is easily released by gently pressing upward on the silver clip in the middle base of the bar. Please see diagrams below.

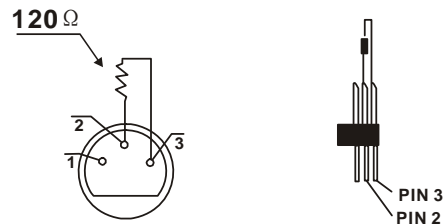


5. DMX-512 CONTROL CONNECTIONS

This fixture complies with international USITT DMX standards and can be used with either a 3 pin or 5 pin DMX connector. Plug in the provided 3 pin XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the fixture. To connect the units to DMX, you must daisy chain the fixtures together as referred in the diagram below. Always end your DMX-512 connection with a DMX terminator.



For installations where the DMX cable has to run a long distance, or is in an electrically noisy environment, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.

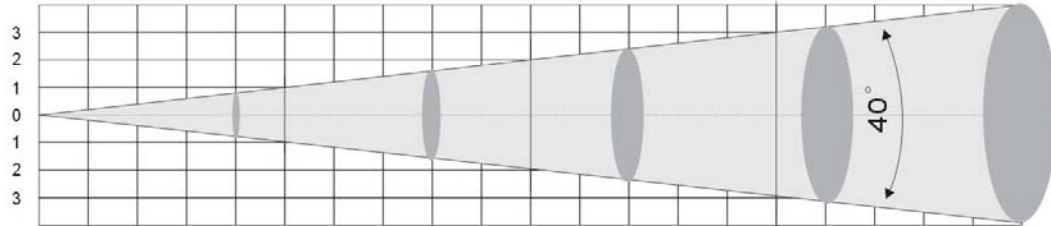


6. PHOTOMETRIC DATA

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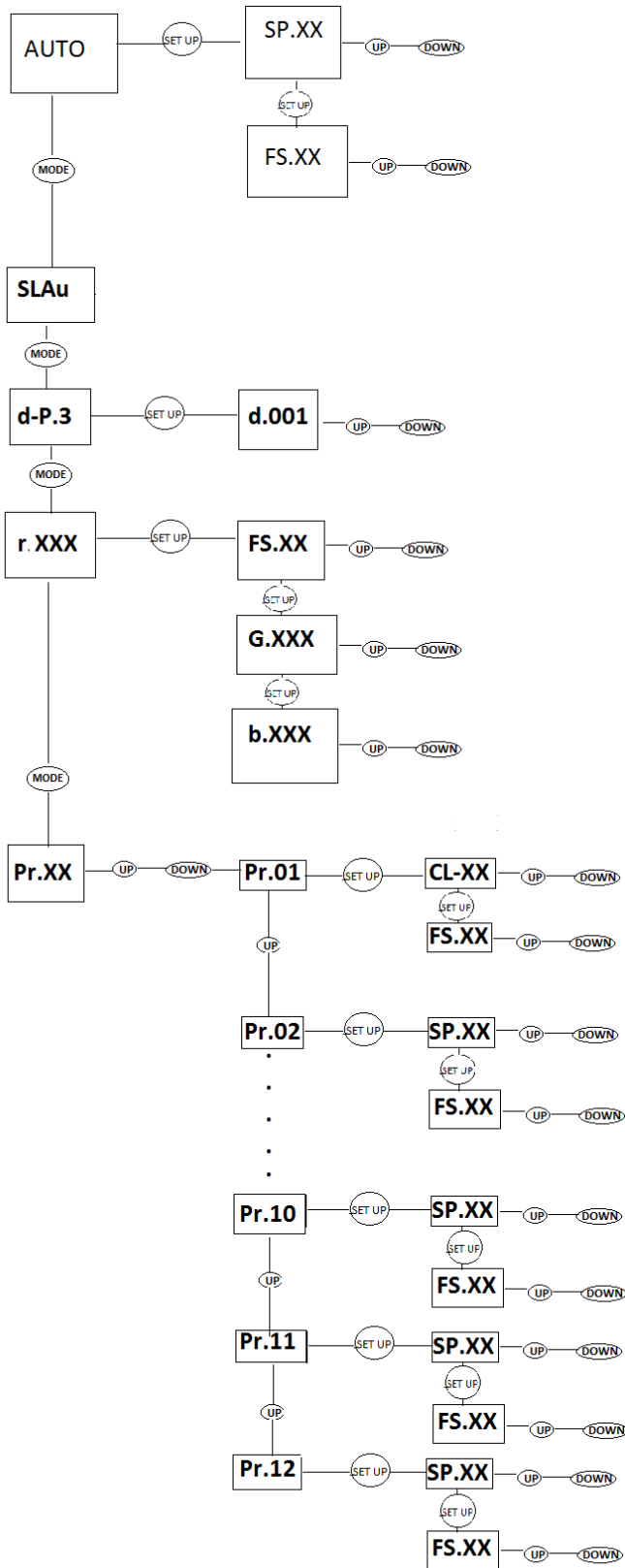
LED Quadpar Tri MKII
Photometric Data

R	1442	646	336	210	133.5	lux
G	947	486	230	127.5	86.4	lux
B	1250	541	272	171	108	lux
W	3330	1515	795	482	333	lux



1	2	3	4	5	Distance(Meters)
0.85	1.7	2.55	3.4	4.25	Diameter(Meters)

7. MENU NAVIGATION



8. DMX CHANNELS

DMX mode 1: 3 channel mode

CH No.	DMX value	Function
CH1	000~255	Red(dim→bright)
CH2	000~255	Green(dim→bright)
CH3	000~255	Blue(dim→bright)

DMX mode 2: 4 channel mode

CH No.	DMX value	Function
CH1	000~255	Master dimmer(dim→bright)
CH2	000~255	Red(dim→bright)
CH3	000~255	Green(dim→bright)
CH4	000~255	Blue(dim→bright)

DMX mode 3: 8 channel mode

CH No.	DMX value	Function
CH1	000~255	Master dimmer(dim→bright)
CH2	000	No function
	001~255	Strobe(slow→fast)
CH3	000~255	Red panel 1&2(dim→bright)
CH4	000~255	Green panel 1&2(dim→bright)
CH5	000~255	Blue panel 1&2(dim→bright)
CH6	000~255	Red panel 3&4(dim→bright)
CH7	000~255	Green panel 3&4(dim→bright)
CH8	000~255	Blue panel 3&4(dim→bright)

DMX mode 4: 14 channel mode

CH No.	DMX value	Function
CH1	000~255	Master dimmer(dim→bright)
CH2	000	No function
	001~255	Strobe(slow→fast)
CH3	000~255	Red panel 1(dim→bright)
CH4	000~255	Green panel 1(dim→bright)
CH5	000~255	Blue panel 1(dim→bright)
CH6	000~255	Red panel 2(dim→bright)
CH7	000~255	Green panel 2(dim→bright)
CH8	000~255	Blue panel 2(dim→bright)
CH9	000~255	Red panel 3(dim→bright)
CH10	000~255	Green panel 3(dim→bright)
CH11	000~255	Blue panel 3(dim→bright)
CH12	000~255	Red panel 4(dim→bright)
CH13	000~255	Green panel 4(dim→bright)
CH14	000~255	Blue panel 4(dim→bright)

DMX mode 5: 2 channel mode

CH1	CH2
0-11 off	No function
12-23 red	
24-35 yellow	
36-47 green	
48-59 cyan	
60-71 blue	
72-83 purple	
84-95 white	
96-107 program 2	
108-119 program 3	
120-131 program 4	
132-143 program 5	
144-155 program 6	
156-167 program 7	
168-179 program 8	
180-191 program 9	
192-203 program 10	
204-215 program 11	
216-227 program 12	
228-239 auto-run	
240-255 sound active	Sound sensitive 0=OFF 1-255 into 31grade

DMX mode 6: 15 channel mode

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12	CH13	CH14	CH15
0-9 OFF 10-255 Master dimmer (dim→ bright)	0-9 RGB dimmer mode	strobe 0~9= OFF 10~25 5=ON (Slow →Fast)	Red (panel 1)	Green (panel 1)	Blue (panel 1)	Red (panel 2)	Green (panel 2)	Blue (panel 2)	Red (panel 3)	Green (panel 3)	Blue (panel 3)	Red (panel 4)	Green (panel 4)	Blue (panel 4)
	10-249 auto- run		speed 0~stop 1~255 (into 99 grade, 1~2 is 1 grade; more than 247 is 99 grade; Slow→ fast)	No use	No use	No use	No use	No use	No use	No use	No use	No use	No use	No use
	250- 255 sound active	Sound sensitiv ity 0=OFF 1-255 into 31 grade	No use	No use	No use	No use	No use	No use	No use	No use	No use	No use	No use	No use

DMX mode 7: 7 channel mode

CH1	CH2	CH3	CH4	CH5	CH6	CH7	
Master Dimmer 0-255 (dim→ bright)	Red 0-255 (dim→ bright)	Green 0-255 (dim→ bright)	Blue 0-255 (dim→ bright)	0-11 off	No Function	No Function	
				12-23 red		speed 0~stop 1~255 (into99 grade, 1~2 is grade 1 ; more than 247 is grade 99 ; slow→fast)	strobe 0= OFF 1~255=ON (Slow→Fast)
				24-35 yellow			
				36-47 green			
				48-59 cyan			
				60-71 blue			
				72-83 purple			
				84-95 white			
				96-107 program 2			
				108-119 program 3			
				120-131 program 4			
				132-143 program 5			
				144-155 program 6			
				156-167 program 7			
				168-179 program 8			
				180-191 program 9			
192-203 program 10							
204-215 program 11							
216-227 program 12							
228-239 auto-run							
240-255 sound active	Sensitivity 0=OFF 1-255 into 31grade	No FUNCTION					

9. KEY FEATURES

- 7 x 3W Tri LEDs Per Head (28 Total)
- 3 Pin XLR Input & Output
- Adjustable Tripod Stand
- 4-Pedal Foot Switch Operation
- IR Remote Optional Operation (LEDQUADPAR-REMOTE)
- Digital Display

10. TECHNICAL SPECIFICATIONS

MODEL: LED QUADPAR TRI MKII

LAMP: 28 Tri LEDS (Per Head:7)

VOLTAGE: 120VAC 60Hz 180W

FUSE: 120VAC 1.5A

DIMENSIONS (W x H): 47.2" x 94.5" (Max Height 9.8') / 120 x 240 cm (Max Height 3m)

CASE DIMENSIONS (IL x W x H): 29" x 14" x 7.5" (Max Height 9.8') / 737 x 356 x 191 mm

NET WEIGHT: 20.5 lbs / 9.3 kg

WARRANTY: 2 Year Limited Warranty

11. MAINTENANCE AND CLEANING

The following points have to be considered during the inspection:

- 1) All screws for installing the device, or parts of the device must be tightly connected, and must not be corroded.
- 2) There must not be any deformations on the housing, colour lenses, fixations or installation spots (ceiling, suspension, trussing).
- 3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
- 4) The electric power supply cables must not show any damage, material fatigue or sediments.

Further instructions depending on the installation spot and usage must be handled by a skilled installer or technician. Any safety issues must be resolved.



In order to keep the fixture in good condition and extend the life, we suggest regular cleaning to the fixture.

- 1) Clean the inside and outside lens each week to avoid the light output from darkening due to accumulation of dust, dirt, etc.
- 2) Clean the fan each week.
- 3) A detailed electrical check by approved technician every three months is advised. Ensure the circuit contacts are in good condition, and prevent from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint-free cloth. Never use alcohol or solvents.

There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions".

Should you need any spare parts, please order genuine MICROH parts from your local dealer.

IF YOU SHOULD EXPERIENCE ANY PROBLEMS OR ISSUES PLEASE CONTACT MICROH PROFESSIONAL PRODUCTS BY EMAIL AT info@microhpro.com

In the event that your unit is defective in any way, please contact your local dealer to obtain an RA number for service repair.

DISCLAIMER – MICROH believes that the information contained within this user manual is accurate. However, Microh is not responsible for any error or addendums to this manual. If you have any comments or general suggestions on how this manual can be improved please contact info@microhpro.com. Thank you.

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