

MICROH

PROFESSIONAL PRODUCTS

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USER MANUAL

LED SLIM P7 / LED SLIM P12

Keep this manual for future reference.

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1. INTRODUCTION AND UNPACKING

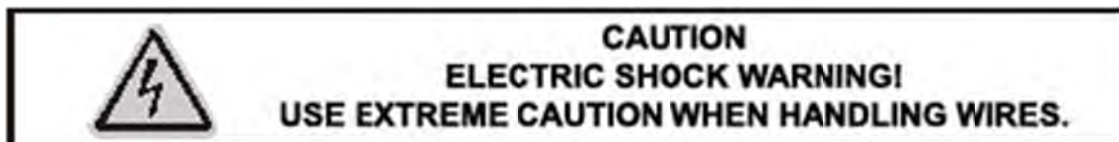
Thank you for purchasing the MICROH LED SLIM P7/P12 wash fixture. For your own safety and knowledge, please read this manual before installing or operating the device. This manual covers the important information on installation and applications. Please install and operate the fixture according to instructions. Meanwhile, please keep this manual for future reference.

The MICROH LED SLIM P7/P12 wash fixture 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 SLIM PAR P7/P12 LED wash fixture uses 7 and 12 powerful TRI (3in1) LED's, 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:

Fixture – One Power Cord – One XLR Signal 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.)

MASTER/SLAVE MODE

- By connecting the 3 pin DMX, you can daisy chain up to 30 units on master/ slave mode. Daisy chain the fixtures together by plugging from the DMX output of the first fixture into the DMX input of the second fixture, and so on...

- On your Master fixture set the unit to either AUTO or SOUND control and select one of the internal programs.

- All slave lights must be set "A001"

MANUAL DIMMER COLOUR MODE

1) Manual dimmer colour select

Press MODE button, select the manual dimmer colour select mode. Press SET UP to choose different colours (Red "0000~2255", Green "6000~6255", blue "6000~6255"). Press UP or DOWN buttons to set the dimming rate 0-255.

2) Flash speed select

Press SET UP and choose the flash speed select mode. Press UP or DOWN to select the flash speed "F500~F515". (00-15, 00 is flash off, 01 is the slowest flash speed, 15 is the fastest flash speed.)

SOUND ACTIVE MODE

Press MODE button, select the sound active program mode. There are two sound active modes, press SET UP to choose.

1) Sound active program mode select

Press SET UP button and select "S001~S008", then press UP or DOWN to select the sound active program mode (1-8).

2) Sensitivity select mode

Press SET UP button and select "S101~S108" then press UP or DOWN to select the sound active sensitivity (1-8. 1 is sound-active off, 2 is the lowest sensitivity, 8 is the highest sensitivity.)

AUTO RUN PROGRAM MODE

Press MODE button and select the auto-run program mode. There are three modes, press SET UP to choose.

1) Colour fade program mode select

Press SET UP button and select "AF01~AF08", then press UP or DOWN button to select fade program (1-8.)

2) Colour change program mode select

Press SET UP button and select "AJ01~AJ08", then press UP or DOWN button to select the change program (1-8.)

3) Colour fade/change speed select

Press SET UP button and select "SP01~SP16". Press UP or DOWN button to select the colour fade/change speed (01-16, 01 is the slowest speed, 16 is the fastest speed.)

STATIC COLOUR SELECT MODE

Press MODE button, and select the static colour select mode. There are two modes, press SET UP to choose.

1) Static colour select

Press SET UP button and select "CL-0~CL-7", then press UP or DOWN to select static colour (0-7. 0 = Black, 1 = Red, 2 = Green, 3 = Blue, 4 = Cyan, 5 = Yellow, 6 = Purple, 7 = White)

2) Flash speed select

Press SET UP button select "FS00~FS.15", then press UP or DOWN button to select static colour flash speed (00-15, 00 is flash off, 01 is the slowest flash speed, 15 is the fastest flash speed.)

DMX MODE

You can control the units individually via your DMX-controller.

1) DMX address select mode

The control board allows you to assign the DMX address which is defined as the first channel of the unit. Press MODE button and select "ADD1~A5.12", then press UP or DOWN to set the DMX address. You can set 510pcs address at most when it is in 3 channel DMX mode, 509pcs address at most when it is in 4 channel DMX mode, 508pcs address at most when it is in 5 channel DMX mode, 507pcs address at most when it is in 6 channel DMX mode. The digital display will flicker when there is no controller signal.

2) DMX-PROTOCOL

Press SET UP button and select "CH03" "CH04" "CH05" or "CH06", then press UP or DOWN to set the desired channels (3,4,5,6). There are four total DMX modes.

OTHER FEATURES

1) Display off/on select mode

Press SET UP button, and select display off/on mode. To have the display continuously on press UP or DOWN and select "done". Select "doff" to have the unit automatically shut off display after 60 seconds of inactivity.

2) Display normal/inversion select mode

Press SET UP button, and select display normal/inversion mode. To have the display set to normal, press UP or DOWN and select "Stand". To have the display inverted select "031".

3) Initialization select mode

Press SET UP and select "DEFRA", and the display flickers. Press UP button and DOWN buttons simultaneously to reset the unit to the factory default settings.

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 illustration 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.

Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

Floor Mounting: Set the 2 brackets at your desired angle and aim your fixture accordingly. Please see diagram below.

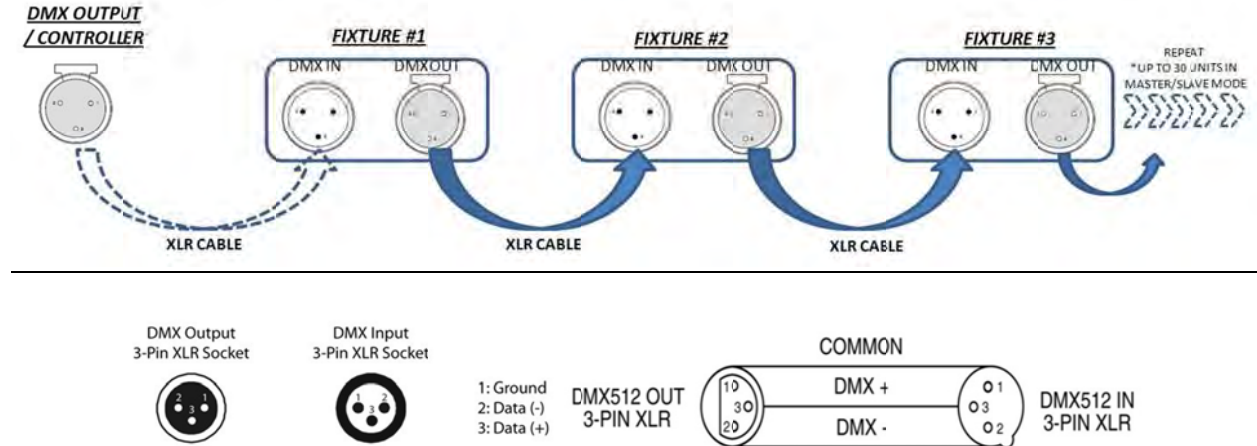
Clamp Mounting: The MICROH LED SLIM P7/P12 provides a unique mounting bracket assembly that integrates 2 brackets to be used to mount on a truss or the floor. When mounting this fixture to truss, be sure to secure an appropriately rated clamp to the included bracket fitted through the center hole. As an added safety measure, be sure to attach at least one properly rated safety cable to the fixture.



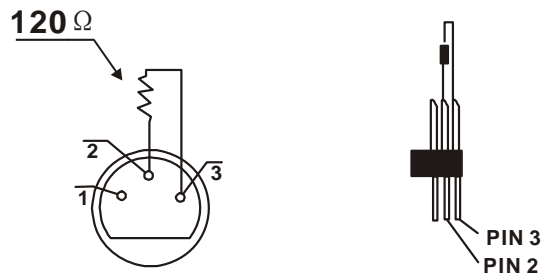
Regardless of the rigging option you choose for your MICROH SLIM P7/P12 wash fixture, always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.

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 MICROH LED SLIM P7/P12. 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 $120\ \Omega$ 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.



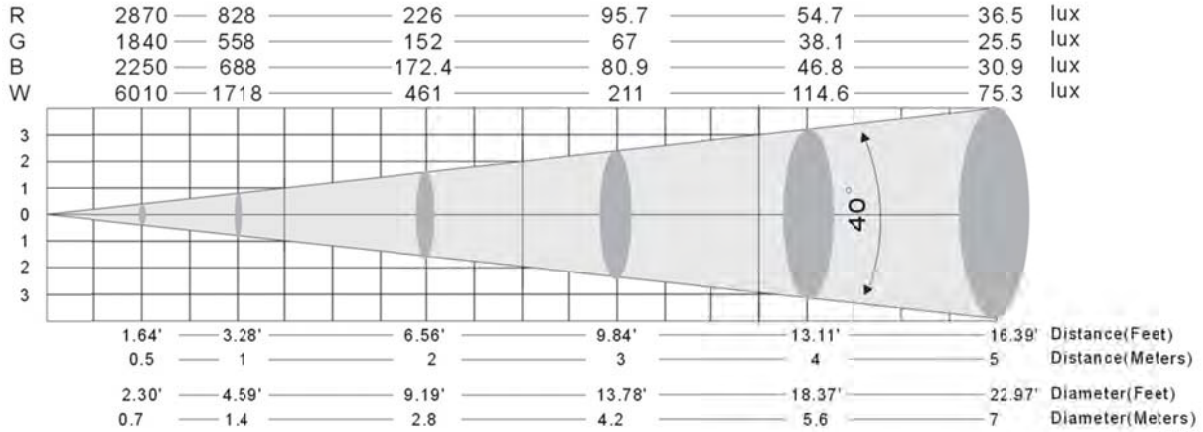
6. MENU NAVIGATION

MODE Manual	SET UP Manual	UP/DOWN Manual	Instruction
DMX MODE	Address	<i>ADD 1-2512</i>	Sets the DMX starting address
	Channels	<i>CH03</i>	The unit occupies 3 DMX channels
		<i>CH04</i>	The unit occupies 4 DMX channels
		<i>CH05</i>	The unit occupies 5 DMX channels
		<i>CH06</i>	The unit occupies 6 DMX channels
	Red dimmer	<i>r.000-r.255</i>	Adjust the intensity of the red colour

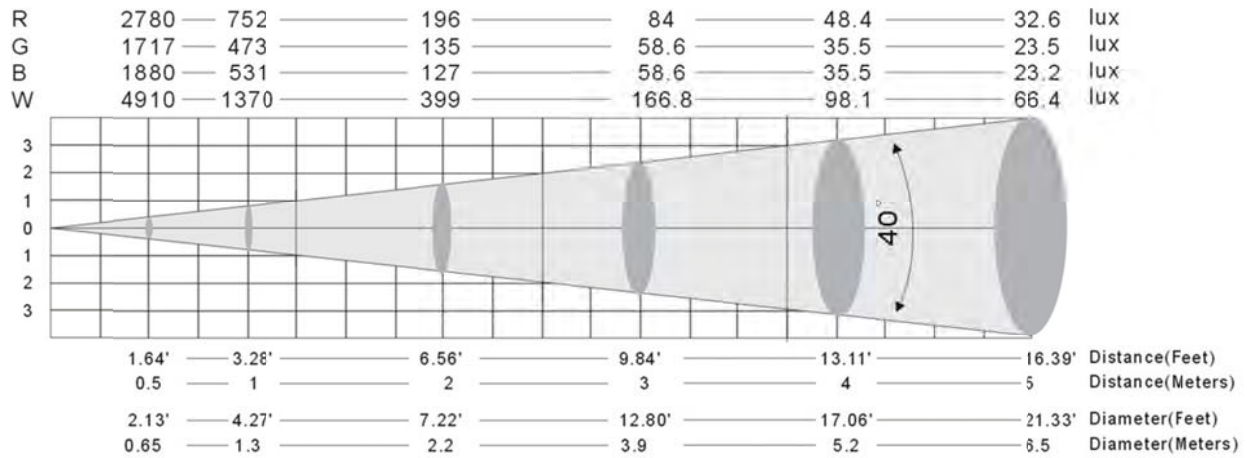
DIMMER MODE	Green dimmer	6.000-6.255	Adjust the intensity of the green colour
	Blue dimmer	6.000-6.255	Adjust the intensity of the blue colour
	Flash	F5.00-F5.15	Adjust the flash speed, F5.00 is flash off, F5.01 is slowest, F5.15 is fastest
SOUND MODE	Mode select	50-1-50-8	Select the built-in sound mode
	Sensitivity select	5J-1-5J-8	Adjust the sensitivity of the sound-active, 5J-1 is the lowest level, 5J-8 is the highest level
AUTO RUN MODE	AUTO FADE mode set	AF-1-AF-8	Select the built-in FADING mode
	COLOUR JUMP mode set	AJ-1-AJ-8	Select the built-in jumping mode
	Speed set	SP01-SP.16	Adjust the speed of the FADE/jumping mode
STATIC COLOUR SELECT MODE	Colour select	CL-0-CL-7	Select the eight static colours
	Flash	F5.00-F5.15	Adjust the flash speed, F5.00 is flash off, F5.01 is slowest, F5.15 is fastest
OTHER MODE	Display on/off	don	LED digital tube display always on
		doFF	LED digital tube display off
	Display normal/inverse	Stnd	LED digital tube display normal
		031	LED digital tube display inversion
	Initialization mode	deFA	Initialize the unit at the extra factory setting

7. PHOTOMETRIC DATA

LED SLIM P12 Tri - Photometric Data



LED SLIM P7 Tri - Photometric Data



8. DMX CHANNELS

① set 3 channels

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

② set 4 channels

CH No.	DMX value	Function
CH1	000~189	Dimming(dim→bright)
	190~250	Strobe(slow→fast)
	251~255	No function
CH2	000~255	Red(dim→bright)
CH3	000~255	Green(dim→bright)
CH4	000~255	Blue(dim→bright)

③ set 5 channels

CH No.	DMX value	Function
CH1	000~255	Red(dim→bright)
CH2	000~255	Green(dim→bright)
CH3	000~255	Blue(dim→bright)
CH4	000~255	Dimming(dim→bright)
CH5	000~015	No function
	016~255	Strobe slowest to fastest flash frequency is 0.1HZ-20HZ

④ set 6 channels

CH6			CH5	CH4	CH3	CH2	CH1
MODE	DMX VALUE	FUNCTION					
1	0-15	No function	Strobe slowest to fastest 16-255 flash frequency is 0.1HZ-20HZ	Blue 0-255 (dim→ bright)	Green 0-255 (dim→ bright)	Red 0-255 (dim→ bright)	Dimming 0-255 (dim→ bright)
2	16-31	Red					
3	32-47	Green					
4	48-63	Blue					
5	64-79	Cyan					
6	80-95	Yellow					
7	96-111	Purple					

8	112-127	White	Speed 0-255 (slow→fast)	No function	No function	No function
9	128-135	Colour fade 1				
10	136-143	Colour fade 2				
11	144-151	Colour fade 3				
12	152-159	Colour fade 4				
13	160-167	Colour fade 5				
14	168-175	Colour fade 6				
15	176-183	Colour fade 7				
16	184-191	Colour fade 8				
17	192-199	Colour change 1				
18	200-207	Colour change 2				
19	208-215	Colour change 3				
20	216-223	Colour change 4				
21	224-231	Colour change 5				
22	232-239	Colour change 6				
23	240-247	Sound mode 1	Sensitivity 0-255 (insensitive → sensitive)			
24	248-255	Sound mode 2				

9. KEY FEATURES

- The MICROH LED SLIM P7 uses 7, 3W TRI LED's (3in1)
- The MICROH LED SLIM P12 uses 12, 3W TRI LED's (3in1)
- 50,000 hours Lifespan and Low Power Consumption
- LED SLIM PAR Series all Have a 40° Projection Beam Angle
- 0 - 100% Linear Dimmer with 1-18 Flashes/sec High Speed Electronic Strobe
- 3, 4, 5, or 6 DMX channels (4 DMX modes)
- Macros, Auto Fade, Chases
- Master/Slave, Auto, DMX, Sound Active, Colour Fade, Colour Chase & Static Colour.
- IEC AC Input & Output
- 3 Pin DMX Input & Output

- Built-in Microphone
- 4 Button Digital LED Display

LENS REPLACEMENT – To change the lens, you must remove 3 screws from the front plate, re-fix new lens and replace 3 screws to front cover. Please refer to diagram below.



10. TECHNICAL SPECIFICATIONS

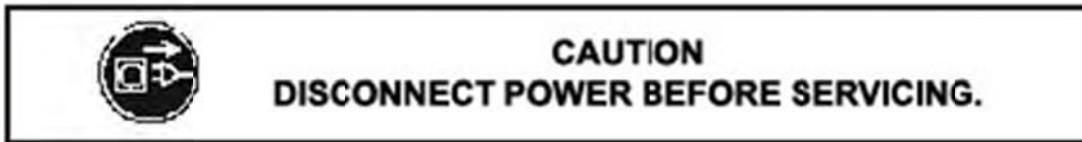
MODEL: LED SLIM P7 / LED Slim P12
LAMP: 7 3W Tri LEDs / 12 3W Tri LEDs
OPERATING TEMPERATURE: -25°C to 45°C
VOLTAGE: AC90-240V 50-60Hz
FUSE: 2A 250V GMA
MAX: 30W
DIMENSIONS: 7" x 3.4" x 10.25" / 178 x 86 x 260 mm (P7)
8" x 3" x 11.5" / 203 x 76 x 292 mm (P12)
PACKING DIMENSIONS: 13.5" x 12" x 7.13" / 343 x 305 x 181 mm
NET WEIGHT: 6 lbs / 2.72 (P7)
5.95 lbs / 2.70 (P12)
GROSS WEIGHT: 7.55 lbs / 3.42 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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