

GIG-PAK T12

Four high-output, slim-profile
RGB tri-color LED par lights
with included IR6 remote,
power and DMX cables,
and custom carry bag

NITEC
powered by EK

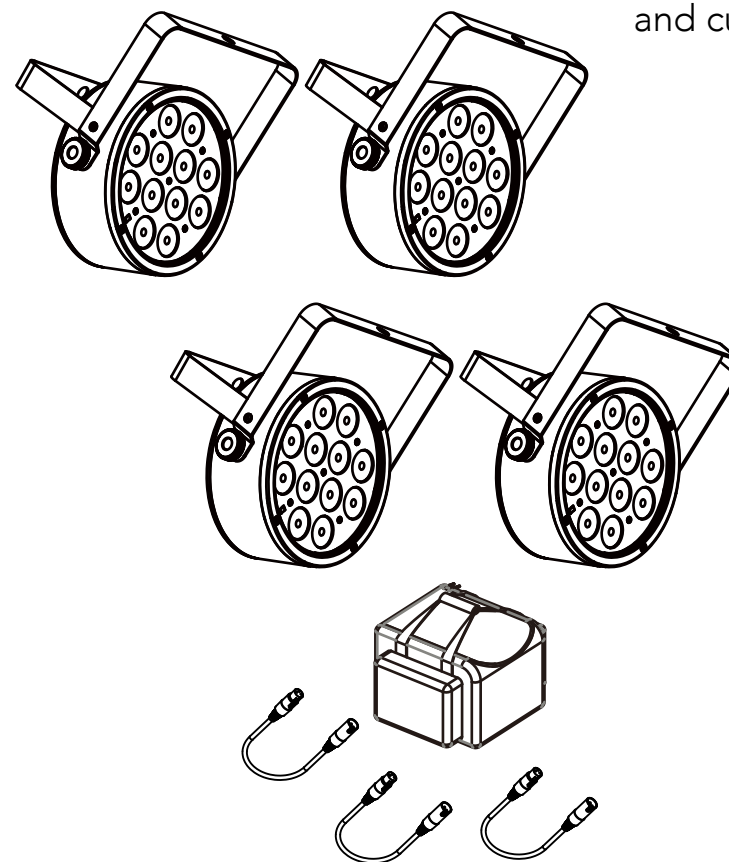


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4.1 MAINTENANCE AND CLEANING THE UNIT

- Make sure the area below the installation place is free from unwanted persons during setup.
- Switch off the unit, unplug the main cable and wait until the unit has cooled down.
- All screws used for installing the device and any of its parts should be tightly fastened and should not be corroded.
- Housings, fixations and installation spots (ceiling, trusses, suspensions) should be totally free from any deformation.
- The main cables must be in impeccable condition and should be replaced immediately even when a small problem is detected.
- It is recommended to clean the front at regular intervals, from impurities caused by dust, smoke, or other particles to ensure that the light is radiated at maximum brightness. For cleaning, disconnect the main plug from the socket. Use a soft, clean cloth moistened with a mild detergent. Then carefully wipe the part dry. For cleaning other housing parts use only a soft, clean cloth. Never use a liquid, it might penetrate the unit and cause damage to it.

4.2 FUSE REPLACEMENT

1. Disconnect this product from the power outlet.
2. Remove the safety cap by a screwdriver.
3. Replace the blown fuse with a fuse of the exact same type and rating (T1A,250V).
4. Install the safety cap, and reconnect power.

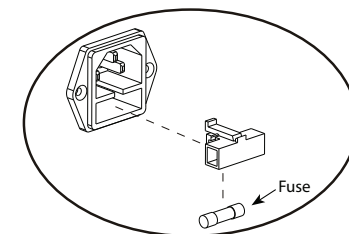


Fig.13

4.3 TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Fixture does not light up	<ul style="list-style-type: none"> • No mains supply • Dimmer fader set to 0 • All color faders set to 0 • Faulty LED • Faulty LED board 	<ul style="list-style-type: none"> • Check the power supply voltage • Increase the value of the dimmer channels • Increase the value of the color channels • Replace the LED board • Replace the LED board
General low light intensity	<ul style="list-style-type: none"> • Dirty lens assembly • Misaligned lens assembly 	<ul style="list-style-type: none"> • Clean the fixture regularly • Install lens assembly properly
Fixture does not power up	<ul style="list-style-type: none"> • No power • Loose or damaged power cord • Faulty internal power supply 	<ul style="list-style-type: none"> • Check for power on power outlet • Check power cord • Replace internal power supply
Fixture does not respond to DMX	<ul style="list-style-type: none"> • Wrong DMX addressing • Damaged DMX cables • Bouncing signals 	<ul style="list-style-type: none"> • Check control panel and unit addressing • Check DMX cables • Install terminator as suggested

Contact an authorized service center in case of technical problems or not reported in the table can not be resolved by the procedure given in the table.

3.15 OPERATION THROUGH THE IR6 CONTROLLER

To control the LITEPART T12 with the infrared remote control:

- Press the button MENU repeatedly until **SET**, then press button ENTER to confirm.
- Using UP/DOWN button to select **On** or **Off** to enable or disable the infrared remote control.
- Press the button ENTER to confirm the chose.

NOTE - Make sure to point the controller directly at the receiver on the product.

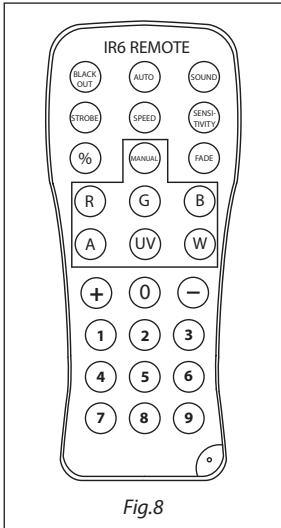


Fig.8

Automatic Mode

Automatic Mode will enable you to run the automatic programs on the product.

To turn on Automatic Mode:

1. Press AUTO on the controller.
2. Press + or – to choose between the different auto programs.

To adjust the speed of the automatic program:

1. Press SPEED on the controller.
2. Press %.
3. Press + or – to either increase or decrease the speed of the program.

Sound Active Mode

Sound Active Mode will enable the product to respond to the music.

To turn on Sound Active mode:

1. Press SOUND on the controller.

To adjust sound sensitivity in Sound Active mode:

1. Press SENSITIVITY on the controller.
2. Press %.
3. Press + or – to either increase or decrease sound sensitivity.

Manual Color Control

To choose a specific color with the controller:

1. Press MANUAL on the controller.
2. Press any number between 0-9 to choose your color.

To manually control the RGB percentage:

3. Press MANUAL on the controller.
4. Press R, G, or B to choose your color.
5. Press + or – to increase or decrease the percentage of each color.

Miscellaneous Operation

To adjust the strobe rate of the program:

1. Press STROBE on the controller.
2. Press + or – to increase or decrease the strobe rate.
3. Press STROBE again to turn off the strobe.

To change the switching effect of the program:

- Press FADE/SNAP on the controller.
- Fade will slowly switch the effect. Snap will rapidly switch the effect.

To black out the lights:

- Press BLACK OUT on the controller.
- This will turn off all the lights until the button is pressed again.

NOTE - The controller will not respond to any inputs when Black Out is activated. If the remote does not respond when a button is pressed, try pressing BLACK OUT. You may have inadvertently activated BLACK OUT.




WARNING! Before carrying out any operations with the unit, carefully read this instruction manual and keep it with care for future reference. It contains important information about the installation, usage and maintenance of the unit.



SAFETY

General instruction

- The products referred to in this manual conform to the European Community Directives and are therefore marked with **CE**.
- The unit is supplied with hazardous network voltage (230V~). Leave servicing to skilled personnel only. Never make any modifications on the unit not described in this instruction manual, otherwise you will risk an electric shock.
- Connection must be made to a power supply system fitted with efficient earthing (Class I appliance according to standard EN 60598-1). It is, moreover, recommended to protect the supply lines of the units from indirect contact and/or shorting to earth by using appropriately sized residual current devices.
- The connection to the main network of electric distribution must be carried out by a qualified electrical installer. Check that the main frequency and voltage correspond to those for which the unit is designed as given on the electrical data label.
- This unit is not for home use, only professional applications.
- Never use the fixture under the following conditions:
 - in places subject to vibrations or bumps;
 - in places with a temperature of over 45 °C.
- Make certain that no inflammable liquids, water or metal objects enter the fixture.
- Do not dismantle or modify the fixture.
- All work must always be carried out by qualified technical personnel. Contact the nearest sales point for an inspection or contact the manufacturer directly.
- If the unit is to be put out of operation definitively, take it to a local recycling plant for a disposal which is not harmful to the environment. 

Warnings and installation precautions

- If this device will be operated in any way different to the one described in this manual, it may suffer damage and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short circuit, burns, electric shock, etc.
- Before starting any maintenance work or cleaning the projector, cut off power from the main supply.
- Always additionally secure the projector with the safety rope. When carrying out any work, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture's being used.
- Install the fixture in a well ventilated place.
- Keep any inflammable material at a safe distance from the fixture.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.
- Never look directly at the light beam. Please note that fast changes in lighting, e. g. flashing light, may trigger epileptic seizures in photosensitive persons or persons with epilepsy.
- Do not touch the product's housing when operating because it may be very hot.

INTRODUCTION

GIG-PAK T12 is a set of four high-output, slim-profile RGB tri-color LED par lights with included IR6 remote, power and DMX cables, and custom carry bag

FEATURES

- Extremely bright slim-profile RGB tri-color LED par light package
- Rugged custom designed die-cast housing
- USB port for optional UFI wi-fi transceiver for wireless DMX control
- Master/slave functionality for easy synchronized light show programming
- Onboard push button control of color mixing and dimming - no controller required
- Built-in sound-active and auto (stand-alone) programs
- High-frequency LED modulation for flicker-free video playback
- Power In and Out connections for linking multiple units
- Easily fits inside standard truss dimensions for dramatic uplighting effects
- All required power and DMX cables included
- IR6 multifunction infrared remote control included

SPECIFICATIONS (LITEPAR T12 FIXTURE)

Light Source:	12 x 3W Tri-color LED
Beam Angle:	15°
Field Angle:	30°
Colors:	RGB color mixing
Output:	428 LUX @ 5 meters
Strobe:	0 - 30 Hz
PWM Frequency:	600 Hz, flicker-free
Dimming:	0-100% dimming, 4 selectable dimming curves
Control modes:	DMX, Auto, Sound-Active, Koala wireless DMX (with optional UFI transceiver), IR6 infrared controller
DMX Channels:	3 / 8
Built-in Programs:	Yes
Menu:	4-digit LED display
Mains:	100 - 240 VAC, 50/60 Hz (auto-ranging)
Power:	38W
Power Linking:	Up to 8 units
Power connections:	IEC power In/Out
Data connections:	3-pin XLR In/Out for DMX
Housing:	Die-cast aluminium
Finish:	Matte Black
IP rating:	IP20
Dimensions:	252 x 227 x 84 mm
Weight:	1.8 KG

3.14 DMX CONTROL

3 CHANNELS

MODE 3 Ch	FUNCTION	DMX Value
1	RED 0~100%	000 - 255
2	GREEN 0~100%	000 - 255
3	BLUE 0~100%	000 - 255

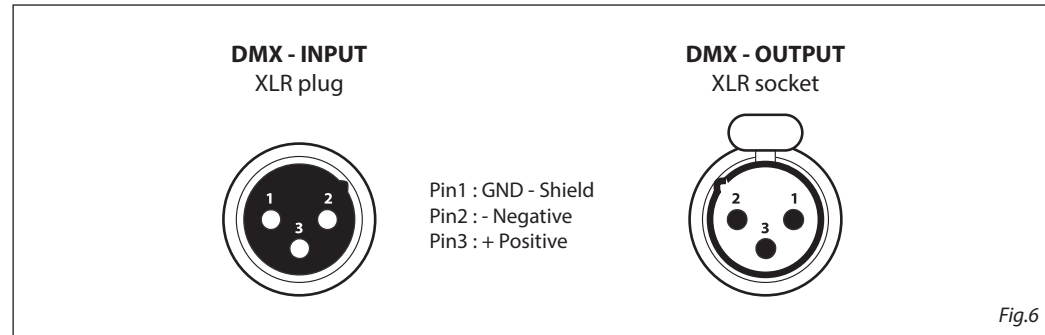
8 CHANNELS

MODE 8 Ch	FUNCTION	DMX Value
1	RED 0~100%	000 - 255
2	GREEN 0~100%	000 - 255
3	BLUE 0~100%	000 - 255
4	COLOR No Function Color Macros	000 - 015 016 - 255
5	STROBE No Function Strobe slow to fast	000 - 015 016 - 255
	PROGRAM SPEED Speed slow to fast	000 - 255
6	SOUND SENSITIVITY Sound sensitivity OFF Control the sound sensitivity	000 - 010 011 - 255
	PROGRAMS No function 0 - 100% 100%-0 100%-0-100% Colors Fade 3 Colors snap 7 Colors snap Sound Control	000 - 031 032 - 063 064 - 095 096 - 127 128 - 159 160 - 191 192 - 223 224 - 255
	DIMMER 0~100%	000 - 255
	DIMMER SPEED MODE Preset dimmer speed from display menu Dimmer speed mode off Dimmer speed mode 1 (fast speed) Dimmer speed mode 2 (middle speed) Dimmer speed mode 3 (slow speed)	000 - 051 052 - 101 102 - 152 153 - 203 204 - 255

3.12 CONNECTION OF THE DMX LINE

DMX connection employs standard XLR connectors. Use shielded pair-twisted cables with 120Ω impedance and low capacity.

The following diagram shows the connection mode:



ATTENTION

The screened parts of the cable (sleeve) must never be connected to the system's earth, as this would cause faulty fixture and controller operation.

Over long runs can be necessary to insert a DMX level matching amplifier.

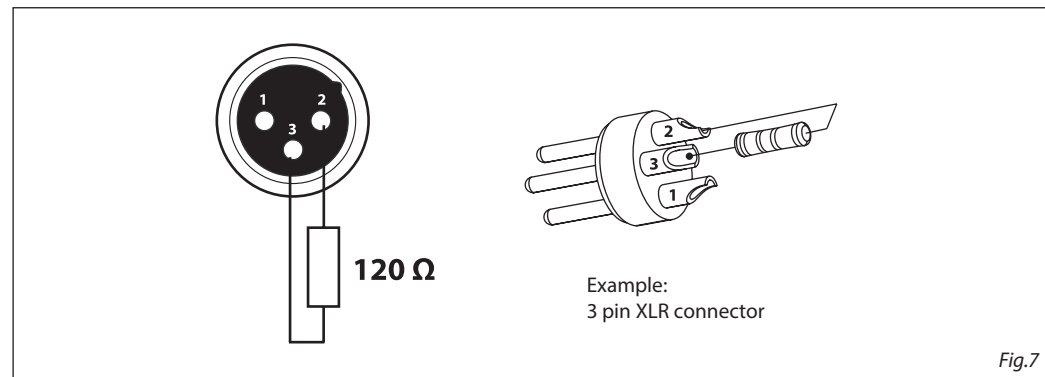
For those connections the use of balanced microphone cable is not recommended because it cannot transmit control DMX data reliably.

- Connect the controller DMX input to the DMX output of the first unit.
- Connect the DMX output to the DMX input of the following unit. Connect again the output to the input of the following unit until all the units are connected in chain.
- When the signal cable has to run longer distance is recommended to insert a DMX termination on the last unit.

3.13 CONSTRUCTION OF THE DMX TERMINATION

The termination avoids the risk of DMX 512 signals being reflected back along the cable when they reach the end of the line: under certain conditions and with certain cable lengths, this could cause them to cancel the original signals.

The termination is prepared by soldering a 120Ω 1/4W resistor between pins 2 and 3 of the 3-pin male XLR connector, as shown in figure.

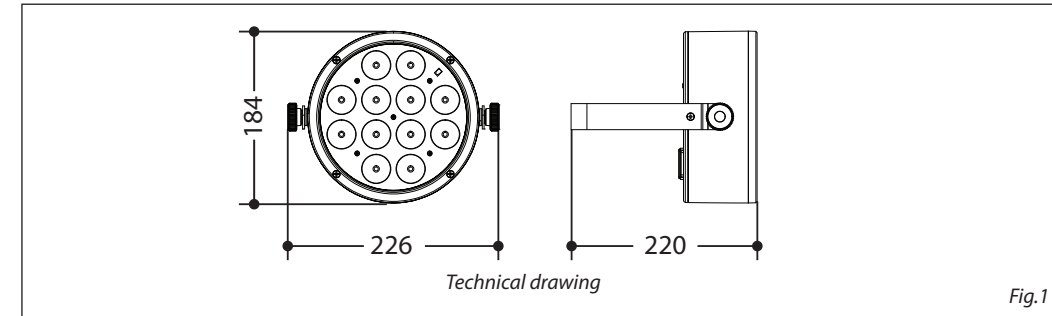


INTRODUCTION (Cont'd)

SPECIFICATIONS (GIG-PAK T12 PACKAGE)

LITEPAR T12:	4
Power cables:	4
DMX cables:	3
IR6 remote:	1
Carry bag:	1
Dimensions:	375 x 270 x 300 mm
Weight:	8.9 KG

DIMENSIONS



1.3 OPERATING ELEMENTS AND CONNECTIONS

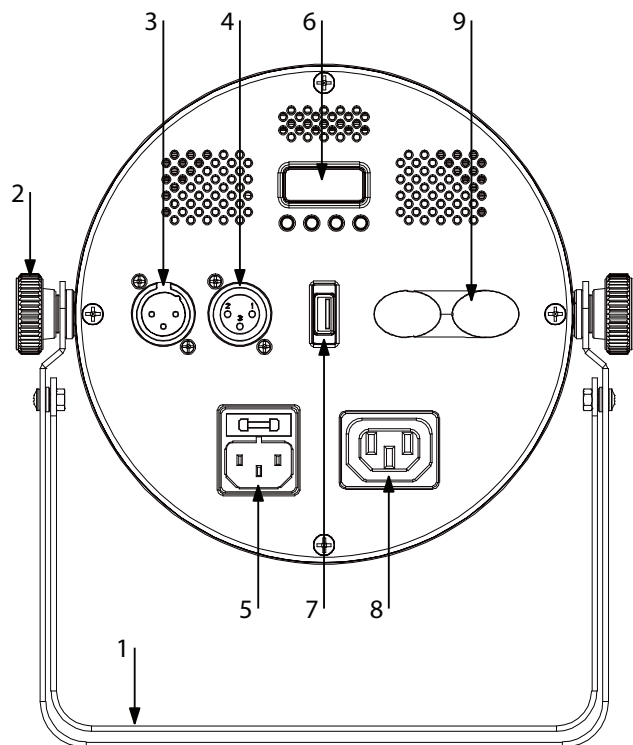


Fig.2 - Rear panel

1. MOUNTING BRACKET
2. LOCKING KNOB for the mounting bracket
3. DMX IN (3-pole XLR):
1 = ground, 2 = DMX -, 3 = DMX +
4. DMX OUT (3-pole XLR):
1 = ground, 2 = DMX -, 3 = DMX +
5. POWER IN mains plug for connection to a socket (100-240V~/50-60Hz) via the supplied mains cable. The support for the mains fuse is located near the mains plug. Only replace a blown fuse by one of the same type (T1A,250V).
6. CONTROL PANEL with display and 4 buttons used to access the control panel functions and manage them.
7. Universal Serial Bus (USB)
8. POWER OUT: connect to supply power to the next unit.
9. SAFETY EYE to attach safety cable

The tables on page 13 indicate the operating mode and DMX value. The LITEPAR T12 is equipped with 3-pole XLR connections.

3.11 DMX ADDRESSING

To able to operate the LITEPAR T12 with a light controller, adjust the DMX start address for the first a DMX channel. If e. g. address 33 on the controller is provided for controlling the function of the first DMX channel, adjust the start address 33 on the LITEPAR T12.

The other functions of the light effect panel are then automatically assigned to the following addresses. An example with the start address 33 is shown below:

Number of DMX channels	Start address (example)	DMX Address occupied	Next possible start address for unit No. 1	Next possible start address for unit No. 2	Next possible start address for unit No. 3
3	33	33-35	36	39	42
8	33	33-40	41	49	57

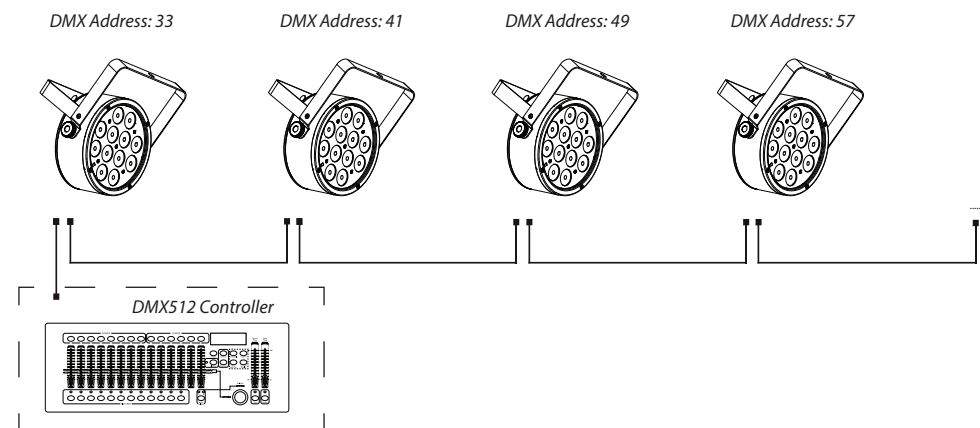


Fig.5 - Example 8 DMX channels configuration

- Press the MENU button to go back or to meet the waiting time to exit the setup menu.

3.6 SOUND MODE

In music mode, via its integrated microphone, the unit can be controlled by music with a clear rhythm in the bass range. If the music control should not work optimally, increase the volume or reduce the distance between the sound source and the light effect unit.

- Press the button MENU so many times until the display shows **Snd**.
- Using UP/DOWN button, select one of the modes **Snd1** or **Snd2**.
- Press the button ENTER to confirm.
- You can set the microphone sensitivity pressing the button MENU so many times until the display show **Sens**
- Using the button UP/DOWN, select the desired value sensitivity (slow-fast) **u0 - u100**.
- Press the button ENTER to confirm.

3.7 MANUAL COLOR

This mode allows to combine the colors red, green and blue (**r, g, b**).

- Press the button MENU so many times until the display shows **U--**, then press the button ENTER.
- Select the color **r, g, b** through the buttons UP/DOWN.
- Press the button ENTER to confirm.
- Using UP/DOWN button, select the desired color value **000 - 255**.
- Press ENTER button to continue to the next color.
- Continue until the desired mix is obtained.
- Press the MENU button to go back or to meet the waiting time to exit the setup menu.

3.8 DIMMER

- Enter in Dimmer mode to select specific dimming curve, press the button MENU so many times until shows **dim**, and press the button ENTER to confirm.
- Press the button UP/DOWN to select **OFF - dim1 - dim2 - dim3**.
- Press ENTER button to store.
- Press the MENU button to go back or to meet the waiting time to exit the setup menu.

3.9 LINKING

Several units may be interconnected in order to control all further slave units to the same effect of the master unit. Use standard DMX cables to daisy chain your units together via the DMX connector on the rear of the units. For longer cable runs we suggest a terminator at the last fixture (see page 12).

1. Connect the DMX OUT of the master unit via 3-pole XLR cable to the DMX IN of the first slave unit.
2. Connect the DMX OUT of the first slave unit to the DMX IN of the second slave unit, etc. until all units are connected in a chain.

3.10 DMX CONFIGURATION

LITEPAR T12 is equipped with different DMX configuration.

- Press the button MENU to select the desired DMX configuration (**3CH - 8CH**), then press the button ENTER.
- Press the button UP/DOWN to select the desired value (**001 - 512**), then press the button ENTER to confirm.
- Press the MENU button to go back or to meet the waiting time to exit the setup menu.

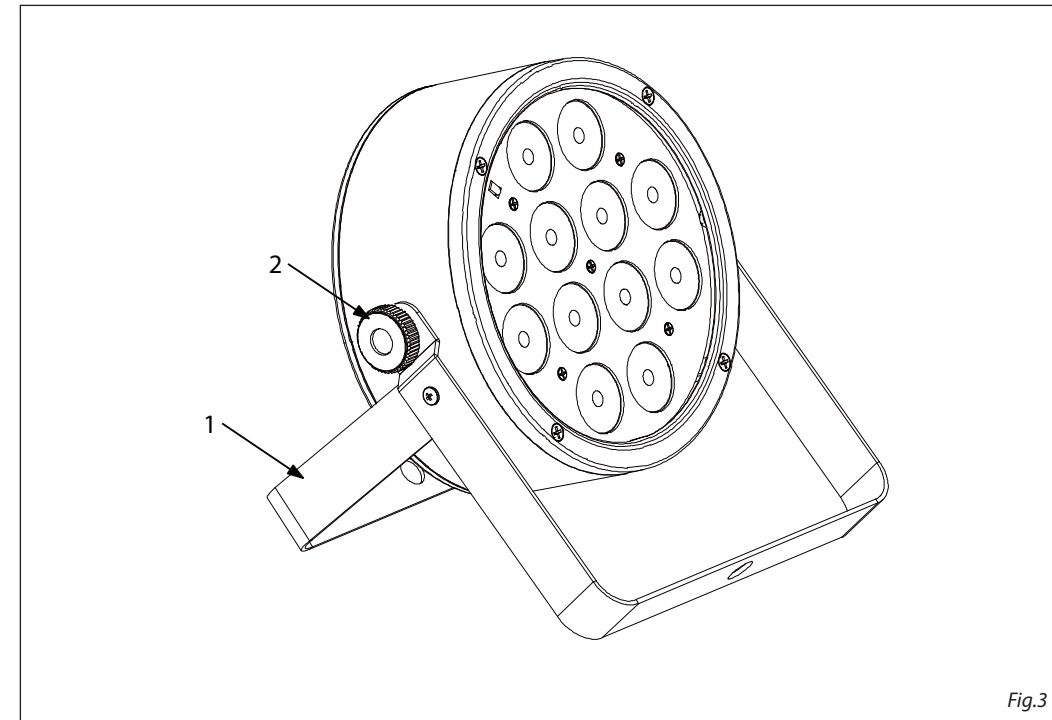
- 2 - INSTALLATION

2.1 MOUNTING

LITEPAR T12 may be set up on a solid and even surface. The unit can also be mounted upside down to a cross arm. For fixing, stable mounting clips are required. The mounting place must be of sufficient stability and be able to support a weight of 10 times of the unit's weight.

When carrying out any installation, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture's being used.

- Install the projector at a suitable location by means of the mounting bracket (1).
- Always additionally secure the projector with the safety rope from falling down. For this purpose, fasten the safety rope at a suitable position so that the maximum fall of the projector will be 20 cm.
- Adjust the projector and use the knob (2) to slightly release or tighten the locking mechanism of the bracket if is necessary.



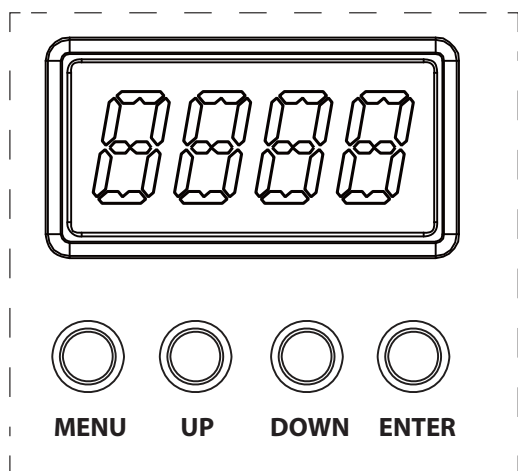
- 3 - FUNCTIONS AND SETTINGS

3.1 OPERATION

Connect the supplied main cable to a socket (100-240 VAC-50/60 Hz). Then the unit is ready for operation and can be operated via a DMX controller or it independently performs its show program in succession. To switch off, disconnect the mains plug from the socket. For a more convenient operation it is recommended to connect the unit to a socket which can be switched on and off via a light switch.

3.2 BASIC

Access control panel functions using the four panel buttons located directly underneath the LED Display (fig.4).



MENU	UP	DOWN	ENTER
Used to access the menu or to return a previous menu option	Increases the numeric value when in a function	Decreases the numeric value when in a function	Used to select and store the current menu or confirm the current function value or option within a menu

Fig.4 - Functions of the buttons

3.3 MENU STRUCTURE

	MENU		
1	DMX Personality and Starting Address	3 CH ⇨ d1 - d512 8 CH ⇨ d1 - d512	Selects DMX personality and DMX starting value
2	Static Colors	C-- ⇨ C1 - C7	Selects 1 of 7 static colors
3	Auto Programs	P-- ⇨ P1 - P4	Selects 1 of 4 auto programs
4	Programs Speed	S-- ⇨ S1 - S100	Sets auto program speed (slow to fast)
5	Sound Active	Snd ⇨ Snd1 - Snd2	Selects Sound Active mode
6	Sound Sensitivity	SenS ⇨ u0 - u100	Sets sound sensitivity (low to high)
7	Custom Color Mixing	U-- ⇨ r0 - r255 ⇨ g0 - g255 ⇨ b0 - b255	Red (0-100%) Green (0-100%) Blue (0-100%)
8	Dimmer	dIM ⇨ OFF ⇨ dIM1 ⇨ dIM2 ⇨ dIM3	OFF: Dimmer speed off DIM1: Dimmer speed fast DIM2: Dimmer speed middle DIM3: Dimmer speed slow
9	Infrared	SET ⇨ ON ⇨ OFF	Turns infrared on or off

3.4 AUTO SHOW

This fixture has a built-in automatic program. To access this, please see the below instructions:

- Press the button MENU so many times until shows **P--**, then press the button ENTER.
- Using UP/DOWN button, select one of the programs **P1 - P4**.
- Press the button ENTER to confirm.
- Press the button MENU until **S--** appears on the display.
- Use the button UP/DOWN to select the auto programs speed **S001 - S100** (slow-fast).
- Press the button ENTER save the setting.

3.5 STATIC COLOR

This fixture has the ability to accept custom static color settings. Access these chases via the control panel on the back of the fixture.

- Press the button MENU so many times until shows **C--**, then press the button ENTER.
- Using UP/DOWN button, select one of the programs **C1 - C7**.
- Press the button ENTER to confirm.