LITE-PANEL T18

Ultra-slim high-power RGB LED panel
with 3 independent sections

NiTEC
powered by EK
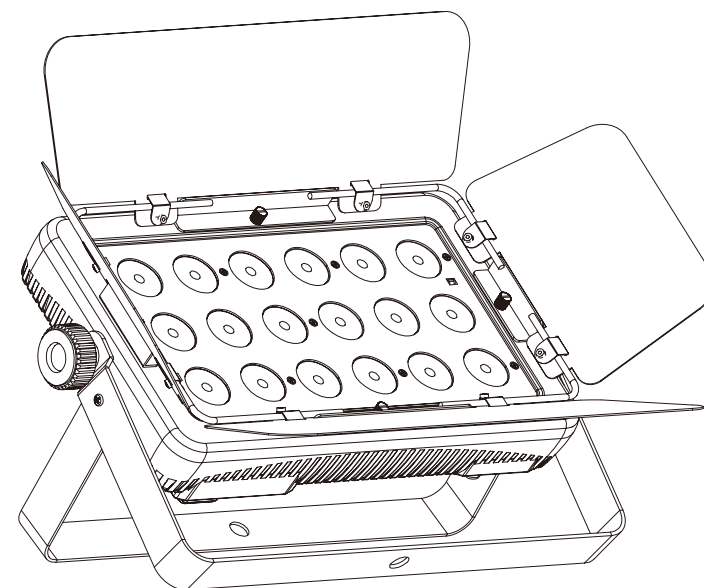
USER MANUAL

EN

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PACKING CONTENT

- LITEPANEL T18
- Power cable
- User Manual
- Warranty Card

MAINTENANCE

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.

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).
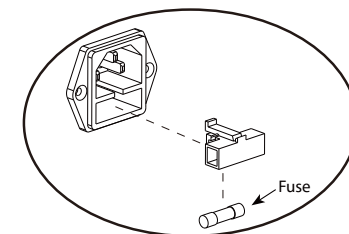4. Install the safety cap, and reconnect power.

Fuse

Fig.13

TROUBLESHOOTING

| Problems	Possible causes	Checks and remedies
Fixture does not light up	• No mains supply • Dimmer fader set to 0 • All color faders set to 0 • Faulty LED • Faulty LED board	• 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	• Dirty lens assembly • Misaligned lens assembly	• Clean the fixture regularly • Install lens assembly properly
Fixture does not power up	• No power • Loose or damaged power cord • Faulty internal power supply	• Check for power on power outlet • Check power cord • Replace internal power supply
Fixture does not respond to DMX	• Wrong DMX addressing • Damaged DMX cables • Bouncing signals	• 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.

OPERATION THROUGH THE IR6 CONTROLLER

To control the LITEPANEL T18 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.
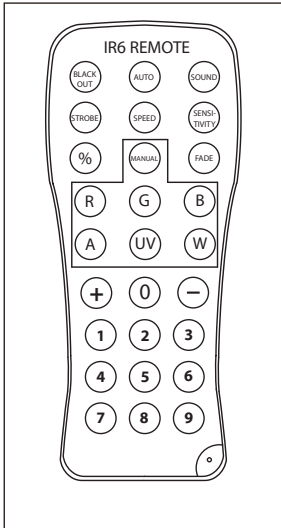
Automatic Mode

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 cure 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

The LITEPANEL T18 is an ultra-slim high-power RGB LED panel with 3 independent sections.

FEATURES

- 18 x 3W RGB LED panel with integrated barndoors
- High-frequency LED modulation for flicker-free video playback
- Built-in sound-active and auto (stand-alone) programs
- Color macros and selectable color temperature presets
- Four selectable dimming curves
- Manual color mixing via onboard menu
- Power In and Out connections for linking mutliple units
- Infrared sensor for optional IR6 remote control

SPECIFICATIONS

Light Source:	18 x 3W Tri-color LED
Beam Angle:	15°
Field Angle:	32°
Colors:	RGB color mixing
Output:	470 @ 5 meters
Strobe:	0 - 30 Hz
PWM Frequency:	1200 Hz, flicker-free
Dimming:	0-100% dimming, 4 selectable dimming curves
Control modes:	DMX, Auto, Sound-Active, IR (with optional IR6 controller)
DMX Channels:	3 / 5 / 9 / 13
Built-in Programs:	Yes
Menu:	4-digit LED display
Mains:	100 - 240 VAC, 50/60 Hz
Power:	53W
Power connections:	IEC power In/Out
Power linking:	Up to 12 units @ 120V / up to 24 units @ 230V
Data connections:	3-pin XLR In/Out for DMX
Housing:	Aluminum and Plastic
Finish:	Matte Black
IP rating:	IP20
Dimensions:	395 x 44 x 260 mm
Weight:	4.5 KG

DMX CONTROL

Ch	Function in 9 Ch mode	Value
7	Chase 8	131 - 147
	Chase 9	148 - 164
	Chase 10	165 - 181
	Chase 11	182 - 198
	Chase 12	199 - 215
	Chase 13	216 - 232
	Chase 14	233 - 250
	Sound Show	251 - 255
8	**AUTO SPEED** Speed Slow-Fast	000 - 255
9	**DIMMER MODE**	
	Menu setting dimmer mode	000 - 051
	Dimmer mode OFF	052 - 101
	Dimmer mode 1	102 - 152
	Dimmer mode 2	153 - 203
	Dimmer mode 3	204 - 255

Ch	Function in 13 Ch mode	Value
1	**RED 1** 0 - 100%	000 - 255
2	**GREEN 1** 000 - 100%	000 - 255
3	**BLUE 1** 000 - 100%	000 - 255
4	**RED 2** 000 - 100%	000 - 255
5	**GREEN 2** 000 - 100%	000 - 255
6	**BLUE 2** 000 - 100%	000 - 255
7	**RED 3** 000 - 100%	000 - 255
8	**GREEN 3** 000 - 100%	000 - 255
9	**BLUE 3** 000 - 100%	000 - 255
10	**AUTO PROGRAM**	
	No Function	000 - 010
	Chase 1	011 - 028
	Chase 2	029 - 045
	Chase 3	046 - 062
	Chase 4	063 - 079
	Chase 5	080 - 096
	Chase 6	097 - 113
	Chase 7	114 - 130
	Chase 8	131 - 147
	Chase 9	148 - 164
	Chase 10	165 - 181
	Chase 11	182 - 198
	Chase 12	199 - 215
	Chase 13	216 - 232
	Chase 14 (Random Chase 1-13)	233 - 250
	Sound Show	251 - 255
11	**AUTO SPEED** Speed Slow-Fast	000 - 255
12	**DIMMER** 0 - 100%	000 - 255
13	**SHUTTER**	
	No Function	000 - 010
	Strobe Slow-Fast	011 - 255

DIMENSIONS

395 mm

260 mm

55 mm

OVERVIEW

Menu Buttons · Display · Microphone · Safety Cable Pass-Through · Fuse Holder · Power In · Power Out · DMX In/Out

Back Panel View

Lenses · IR Sensor
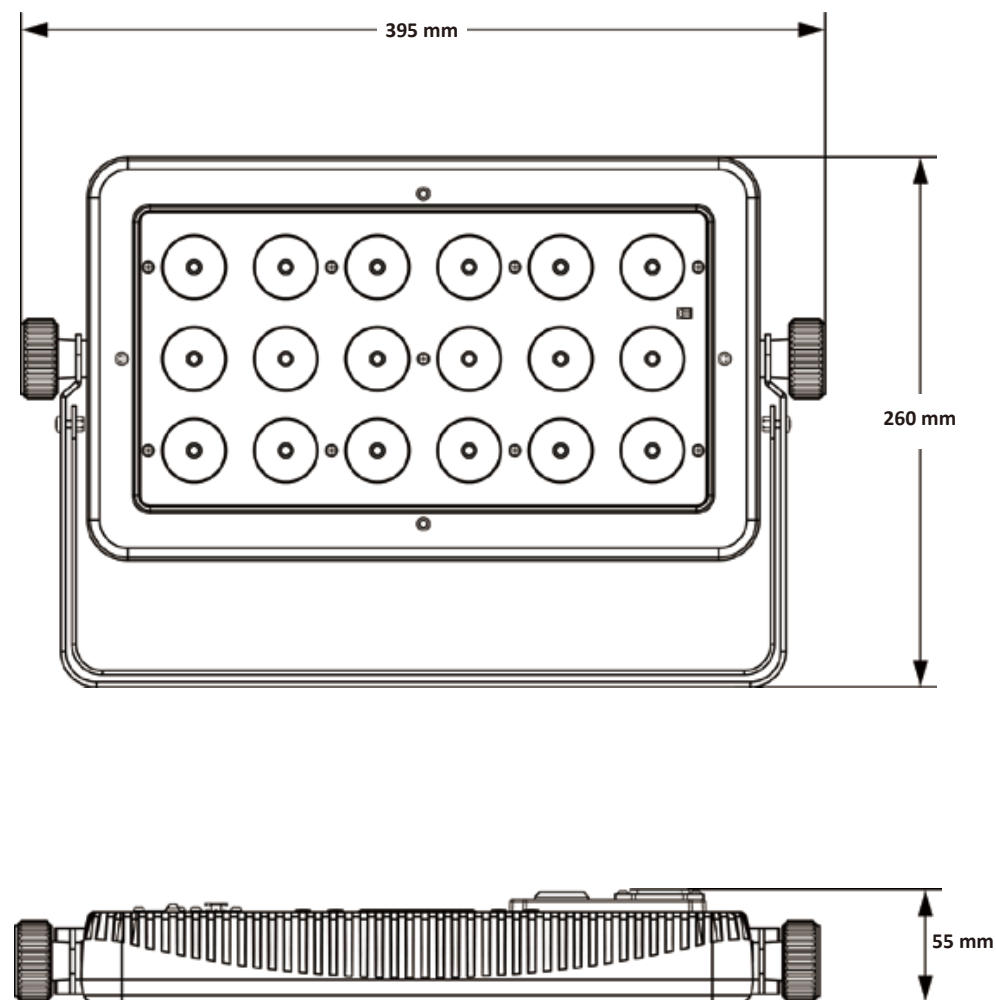
Front View
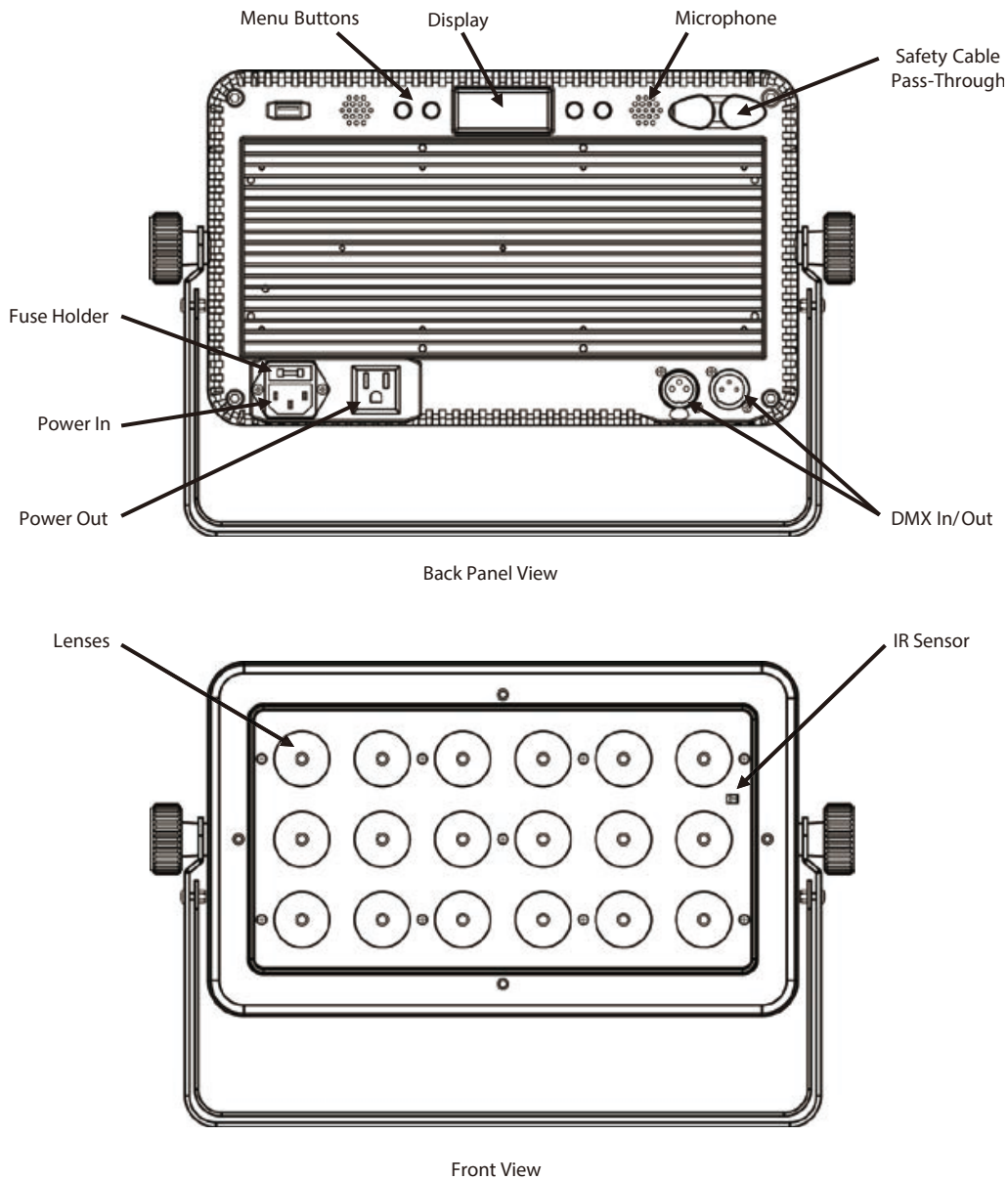
DMX CONTROL

Ch	Function in 3 Ch mode	Value
1	RED 000 - 100%	000 - 255
2	GREEN 000 - 100%	000 - 255
3	BLUE 000 - 100%	000 - 255

Ch	Function in 5 Ch mode	Value
1	DIMMER 0 - 100%	000 - 255
2	RED 000 - 100%	000 - 255
3	GREEN 000 - 100%	000 - 255
4	BLUE 000 - 100%	000 - 255
5	SHUTTER No Function Strobe Slow-Fast	000 - 010 011 - 255

Ch	Function in 9 Ch mode	Value
1	DIMMER 0 - 100%	000 - 255
2	RED 000 - 100%	000 - 255
3	GREEN 000 - 100%	000 - 255
4	BLUE 000 - 100%	000 - 255
5	SHUTTER No Function Strobe Slow-Fast	000 - 010 011 - 255
6	MAN COLOR+COLOR TEMPERATURE No Function R 100% / G 0-100% / B 0% R 100-0% / G 100% / B 0% R 0% / G 100% / B 0-100% R 0% / G 100-0% / B 100% R 0-100% / G 0% / B 100% R 100% / G 0% / B 100-0% R 100% / G 0-100% / B 0-100% R 100-0% / G 100-0% / B 100% R 100% / G 100% / B 100% Color temperature 1 Color temperature 2 Color temperature 3 Color temperature 4 Color temperature 5 Color temperature 6 Color temperature 7 Color temperature 8 Color temperature 9 Color temperature 10 Color temperature 11	000 - 010 011 - 030 031 - 050 051 - 070 071 - 090 091 - 110 111 - 130 131 - 150 151 - 170 171 - 200 201 - 205 206 - 210 211 - 215 216 - 220 221 - 225 226 - 230 231 - 235 236 - 240 241 - 245 246 - 250 251 - 255
7	AUTO PROGRAM No Function Chase 1 Chase 2 Chase 3 Chase 4 Chase 5 Chase 6 Chase 7	000 - 010 011 - 028 029 - 045 046 - 062 063 - 079 080 - 096 097 - 113 114 - 130

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.**
- 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.

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.

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.

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   .
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.

DMX CONFIGURATION

LITEPANEL T18 is equipped with different DMX configuration.
- Press the button MENU to select the desired DMX configuration (**3CH - 5CH - 9CH - 13CH**), then press ENTER.
- Press the button UP/DOWN to select the desider 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.

INSTALLATION

MOUNTING

LITEPANEL T18 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.
- 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 to slightly release or tighten the locking mechanism of the bracket if is necessary.


Safety Cable

Mounting Clamp

Double-Bracketed Yoke

Bracket Adjustment Knob x 2

Barn Doors
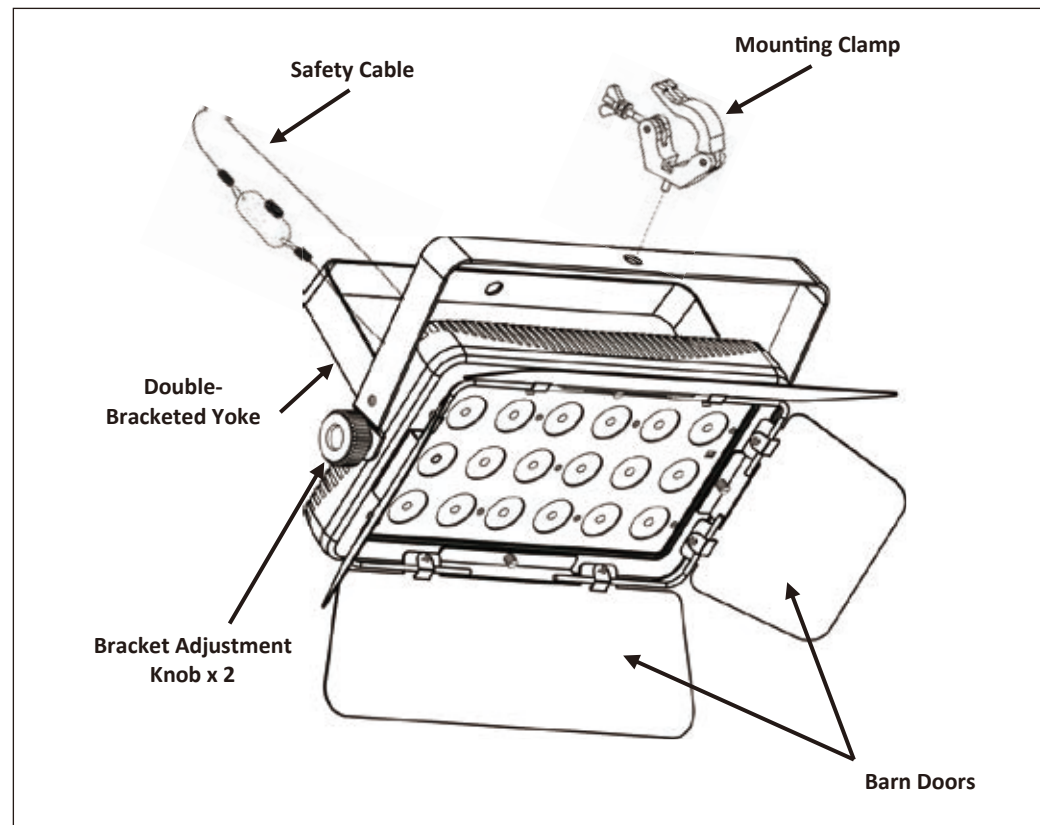
FUNCTIONS AND SETTINGS

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.

BASIC
Access control panel functions using the four panel buttons located directly underneath the LED Display
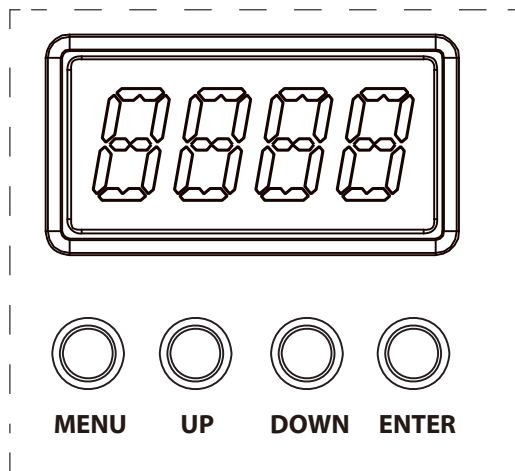
MENU   UP   DOWN   ENTER

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

Functions of the buttons

MENU STRUCTURE

Menu Item	Parameters		Description
3-CH	d001–512		3-channel DMX mode
5-CH	d001–512		5-channel DMX mode
9-CH	d001–512		9-channel DMX mode
13CH	d001–512		13-channel DMX mode
C--	C1–18		Static colors
P-- (automatic)	P1–14		Automatic programs
S--	S--1–100		Program speed for P1–P14
Snd (sound -active)	Snd		Sound -Active program
SenS	u--0–100		Sound sensitivity setting
U--	r000–255	(red)	Custom static colors Combine red, green, and blue
	g000–255	(green)	
	b000–255	(blue)	
dIM	OFF		Dimmer speed mode, fast to slow, or off
	dIM1		
	dIM2		
	dIM3		
teMP	––		Displays current product temperature
SEr	On		IR function on or off
	OFF		

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 - P14**
•   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.

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 - 18**
•   Press the button ENTER to confirm.
•   Press the MENU button to go back or to meet the waiting time to exit the setup menu.