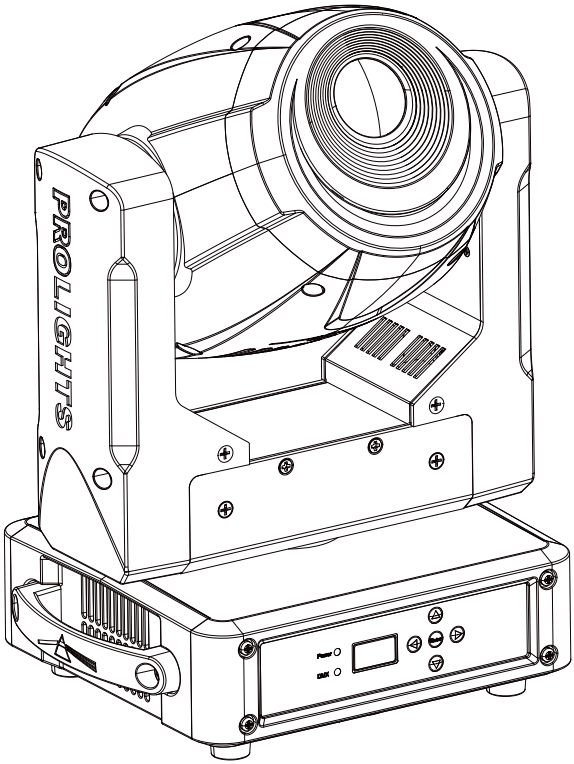
PROLIGHTS®
PROFESSIONAL LIGHTS

PIXIESPOT

SPOT MOVING HEAD



USER MANUAL

EN

TABLE OF CONTENTS

Packing content

- PIXIESPOT
- Mount bracket
- Power supply cable and signal cable
- Safety rope
- User manual

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 wet;
  - in places subject to vibrations or bumps;
  - in places with an ambient 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.
- For inside use only. Not designed for outside use.
- The minimum distance between the fixture and surrounding walls must be more than 50 cm and the air vents at the housing must not be covered in any case.
- Install the fixture in a well ventilated place.
- Keep any inflammable material at a safe distance from the fixture.
- The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, is high. After power off, please cool down over 15 minutes.
- 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.

- 1 - INTRODUCTION

1.1 DESCRIPTION

PIXIESPOT it's the first Prolights spot moving head delivering a full spectrum chromatic synthesis, equipped with a 60W RGBW/FC LED light source to perform limitless bright, intense and saturated colors, as well as proper whites. PIXIESPOT can be also controlled wireless through the optional USB Wi-Fi receiver in combination with Wifibox and the smartphone App SmartColor.

1.2 TECHNICAL SPECIFICATIONS

LIGHT SOURCE
- Source:60 W RGBW Osram LEDs
- Luminous Flux:636 lm
- Lux:1333 lux @3m Full
- Lux:480 lux @5m Full
- Source Life Expectancy: >50.000 h

OPTICS
- Beam Angle:19 °
- Lens Type: HQ glass lens optics
- Focus: Motorised

COLOR SYSTEM
- Color Mixing: RGBW/FC
- CTC: Linear CTO correction 2700~6000K
- Color Wheel: Virtual color wheel with presets

DYNAMIC EFFECTS
- Rotating Gobos:7 Rotating gobos+Open, Interchangeable
- Gobo Size:gobo Ø 16,9 mm - img Ø 14 mm - 2 mm
- Circular Prism:3 f with bi-directional rotation
- Auto Mode: Built-in programs with execution speed adjustment
- Sound Mode: Music activation through internal microphone, sensitivity control

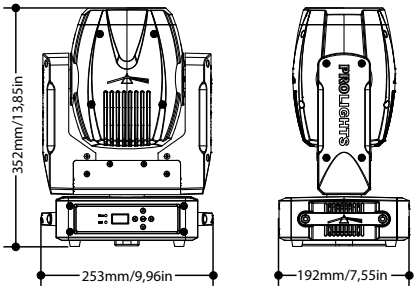
BODY
- Pan Angle:540 °
- Tilt Angle:270 °
- Pan/Tilt Resolution: bit 8/16 bit
- Body: Aluminium structure with hi-resistance polycarbonate cover
- Body Color: Black

CONTROL
- Protocols: DMX512
- DMX Channels:15/18/23 ch
- Display: Black OLED high resolution display
- Firmware Upgrade: Yes, via USB-DMX interface (UPBOX1) not included
- Master/Slave: for synchronized operation of more units linked in a chain

ELECTRONICS
- Dimmer: Linear 0~100% electronic dimmer
- Dimmer Curves: Different dimming curves available
- Strobe/Shutter:1/28 Hz, electronic
- Operating Temperature: -10° ~ +45°
- Flicker: Flicker free operation

ELECTRICAL
- Power Supply: 100-240V – 50/60Hz
- Power Consumption (at 230V):118 W
- Power Consumption (at 120V):120 W
- Output (at 230V):17 units on a single power line
- Output (at 120V):9 units on a single power line

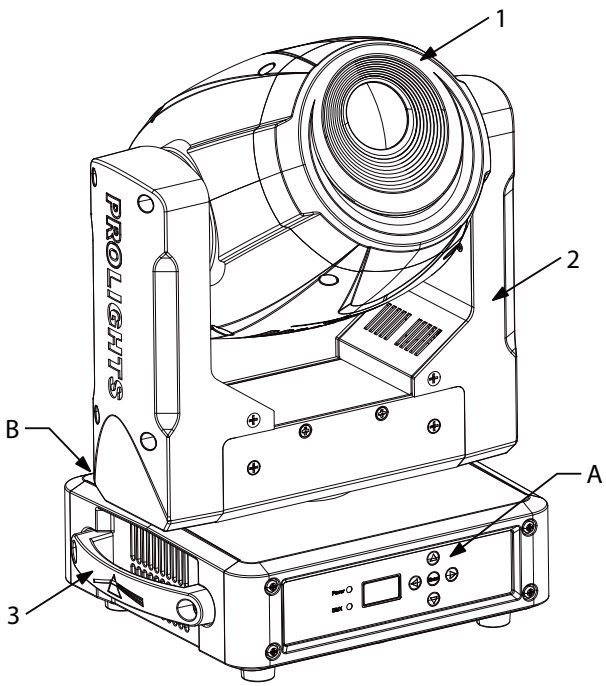
PHYSICAL
- Signal Connection: DMX 5p IN/OUT Amphenol
- Power Connection: IN/OUT Neutrik Truecon
- IP:20
- Cooling: Forced air with low noise fan
- Suspension And Fixing: Any position with "quick-lock" omega brackets
- Dimensions (WxHxD):253x352x192 mm
- Weight:7 kg

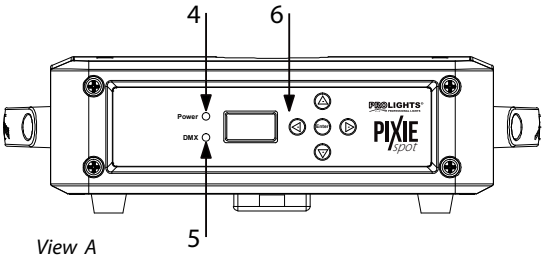


Technical drawing

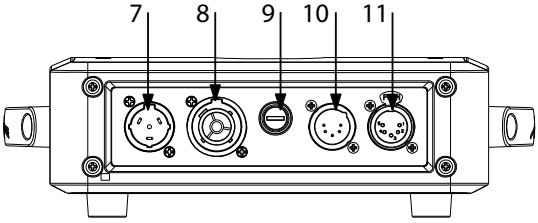
Fig.1

1.3 OPERATING ELEMENTS AND CONNECTIONS





View A

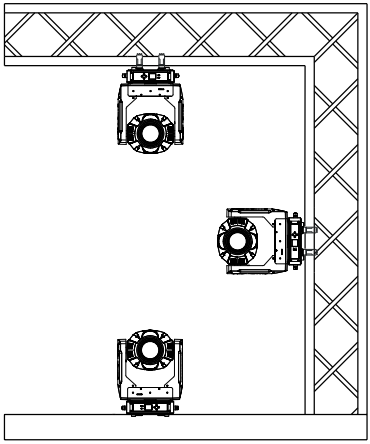


View B

1. MOVING HEAD.
2. REVOLVING ARM.
3. HANDLE.
4. LED INDICATOR "POWER".
5. LED INDICATOR "DMX".
6. CONTROL PANEL with OLED display and 5 button used to access the control panel functions and manage them.
7. POWER IN (PowerCON IN): for connection to a socket (100-240V~/50-60Hz) via the supplied mains cable.
8. POWER OUT (PowerCON OUT): power output for connection of multiple units in series.
9. MAIN FUSE HOLDER: replace a burnt-out fuse by one of the same type only.
10. DMX IN (5-pole XLR): 1 = ground, 2 = DMX-, 3 = DMX+, 4 N/C, 5 N/C.
11. DMX OUT (5-pole XLR): 1 = ground, 2 = DMX-, 3 = DMX+, 4 N/C, 5 N/C.

Fig.2

- 2 - INSTALLATION



2.1 MOUNTING

The PIXIESPOT may be set up on a solid and even surface. By means of the fixing facilities of the baseplate, the unit can also be mounted upside down to a cross arm. The base plate is shown in fig.3. For fixing, stable mounting clips are required. According to the figure, the bolts of the brackets are placed into the openings provided in the base plate and turned clockwise until they lock (to the stop). Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. 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. 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.

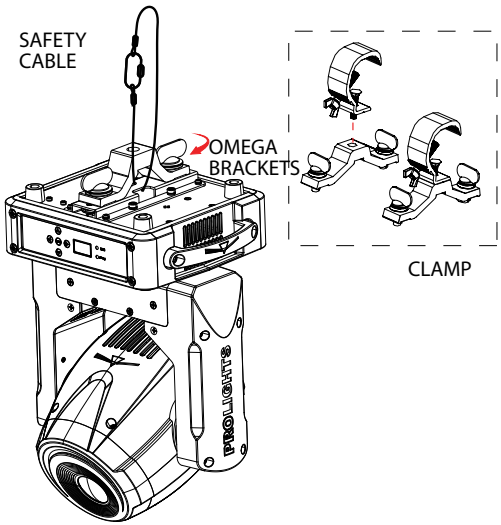


Fig.3

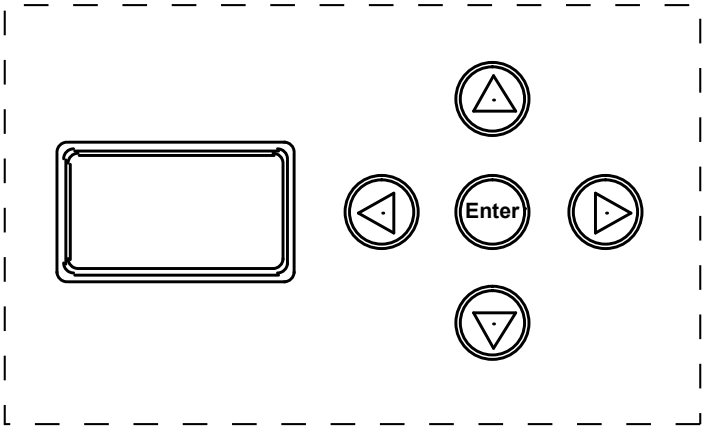
- 3 - FUNCTIONS AND SETTINGS

3.1 OPERATION

Connect the supplied main cable to a socket (100-240V~/50-60Hz). The unit will run built-in program to reset all motors to their home position. Shortly after that the PIXIESPOT is ready for operation. 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 light switch.

3.2 BASIC

The PIXIESPOT has a OLED display and 5 button used to access the control panel functions and manage them (fig.4).



UP	DOWN	◁ LEFT	▷ RIGHT	ENTER
Increases the value displayed or passes to the previous item in a menu	Decreases the value displayed or passes to the next item in the menu	To enter in the main menù or to return to the top level	Commute from units, tens, hundred in the menu	Confirms the displayed value, or activates the displayed function, or enters the successive menu

Fig.4 - Functions of the buttons and display icons

3.3 MENU STRUCTURE

	MENU						
1	**DMX Functions**	⇨	DMX Address	⇨	Value (1-512)		
			DMX Channels	⇨	15 CH		
					18 CH		
					23 CH		
2	**Show setup**	⇨	Show Mode	⇨	Show 1		
					Show 2		
					Show 3		
					Show 4		
			Focus Adjust	⇨	000 - 255		
3	**Motor Setup**	⇨	Pan Inverse	⇨	No		
					Yes		
			Tilt Inverse	⇨	No		
					Yes		
			Motor Offset	⇨	Pan Offset	⇨	000 - 255
					Tilt Offset	⇨	000 - 255
					Gobo Offset	⇨	000 - 255
					Prism Offset	⇨	000 - 255
					Focus Offset	⇨	000 - 255
4	**System Setup**		Master/Slave	⇨	Master		
					Slave		
			Sound Sence	⇨	000 - 100		
			White Balance	⇨	Red	⇨	125 - 255
					Green	⇨	125 - 255
					Blue	⇨	125 - 255
			Dimmer Mode	⇨	Off		
					Dimmer 1		
					Dimmer 2		
					Dimmer 3		
			Fan Mode	⇨	Auto Speed		
					High Speed		
			Factory Setting	⇨	No		
					Yes		
5	**Display Setup**	⇨	Display Inverse	⇨	No		
					Yes		

		Back Light	⇨	On		
				10s		
				20s		
				30s		
		Warn Cue	⇨	Off		
				On		
6	**Test Setup**	⇨ Auto Test				
		⇨ Manual Test	⇨	Pan	⇨	000 - 255
				Pan Fine	⇨	000 - 255
				Tilt	⇨	000 - 255
				Tilt Fine	⇨	000 - 255
				Pan/Tilt Speed	⇨	000 - 255
				Dimmer	⇨	000 - 255
				Shutter	⇨	000 - 255
				Red	⇨	000 - 255
				Green	⇨	000 - 255
				Blue	⇨	000 - 255
				White	⇨	000 - 255
				Gobo	⇨	000 - 255
				RGobo	⇨	000 - 255
				Prism	⇨	000 - 255
				RPrism	⇨	000 - 255
				Focus	⇨	000 - 255
7	**Reset Setup**	⇨ Auto reset				
		Manual Reset	⇨	Pan Reset	⇨	No
						Yes
				Tilt Reset	⇨	No
						Yes
				Gobo Reset	⇨	No
						Yes
				Prism Reset	⇨	No
						Yes
				Focus Reset	⇨	No
						Yes

8	**Information**	⇨	Fixture Time	⇨	0 - 9999
			Software Version	⇨	DISP V 1.0
					CTR - XY V 1.0
					CTR - LED V 1.0
			LED Temperature	⇨	58°C

3.4 DMX ADDRESSING

To set DMX addressing follow the instructions below:

- Press the button LEFT to enter the menu mode.
- Use the buttons UP/DOWN to select the **DMX Functions** item. Press the button ENTER to confirm.
- Press the buttons UP/DOWN to select the **DMX Address** item. Then press the button ENTER to confirm.
- Press the buttons UP/DOWN to select the desired value **001-512**; Then press the button ENTER to confirm.
- Press repeatedly the button LEFT to return the menu mode.

To able to operate the PIXIESPOT 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 PIXIESPOT. The other functions of the light effect panel are then automatically assigned to the following addresses.

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
15	33	33-47	48	63	78
18	33	33-50	51	69	87
23	33	33-55	56	79	102

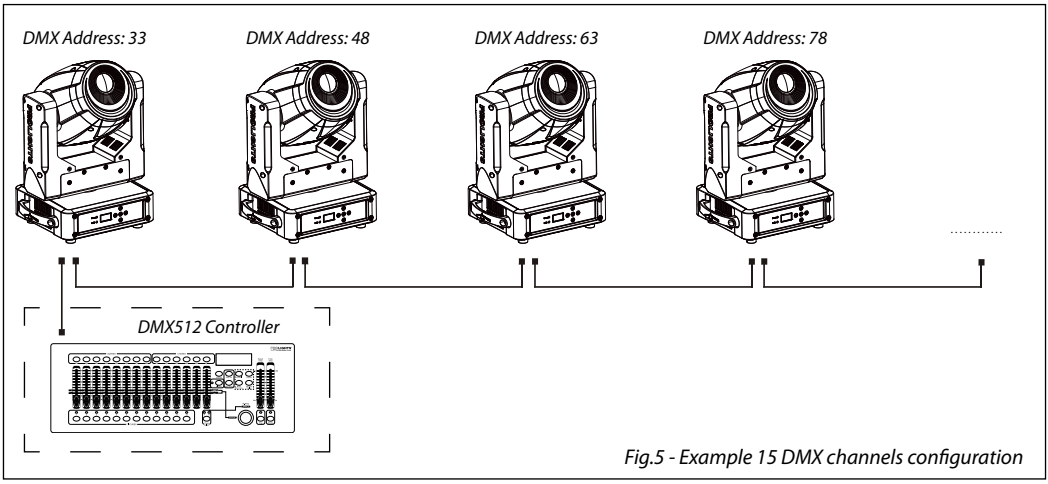


Fig.5 - Example 15 DMX channels configuration

Several units may be interconnected; follow the instructions below:

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.

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 13).

3.5 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:

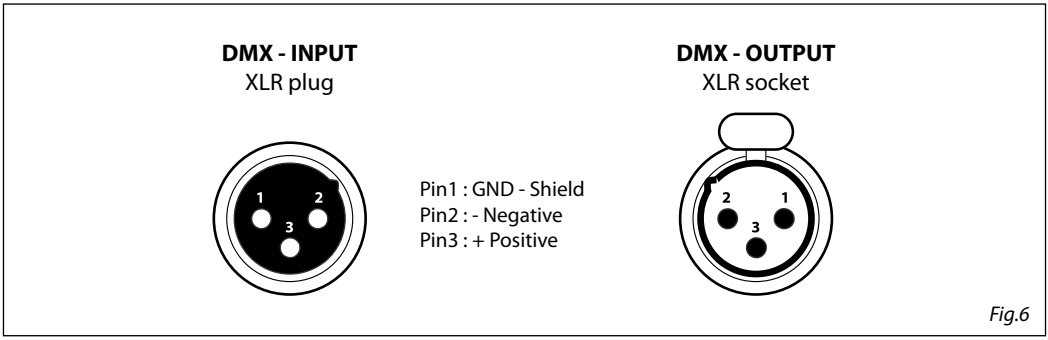


Fig.6

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.

3.6 CONSTRUCTION OF THE DMX TERMINATION

The termination avoids the risk of DMX 512 signals being reflected back along the cable when they reaches 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 1/4 W resistor between pins 2 and 3 of the 3-pin male XLR connector, as shown in figure.

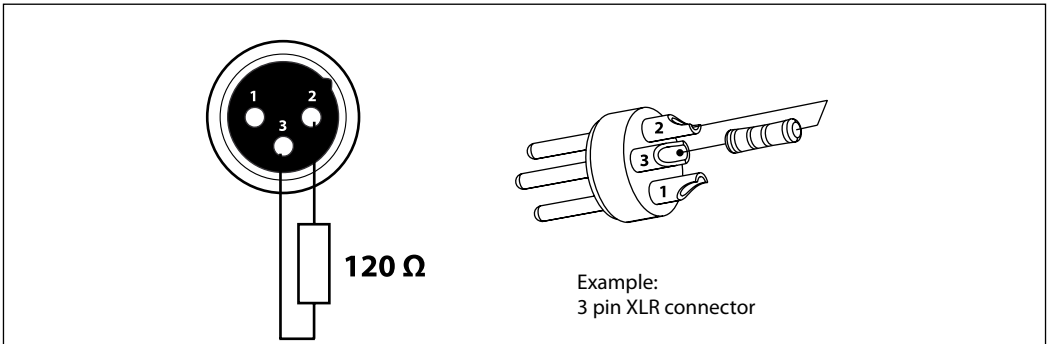


Fig.7

3.7 DMX CHANNELS

MODE 15 Ch	MODE 18 Ch	MODE 23 Ch	FUNCTION	DMX Value
1	1	1	**PAN** 0~100%	 000 - 255
2	2	2	**PAN FINE** 0~100%	 000 - 255
3	3	3	**TILT** 0~100%	 000 - 255
4	4	4	**TILT FINE** 0~100%	 000 - 255
5	5	5	**PAN/TILT SPEED** Fast to slow	 000 - 255
6	6	6	**SPECIAL FUNCTION** No function Reset all (Hold 3 Seconds) No function	 000 - 199 200 - 209 210 - 255
7	7	7	**RED** 0~100%	 000 - 255
8	8	8	**GREEN** 0~100%	 000 - 255
9	9	9	**BLUE** 0~100%	 000 - 255
10	10	10	**WHITE** 0~100%	 000 - 255
	11	11	**COLOR** No function Red Yellow Green Cyan Blue Magenta White Full Clockwise rotation (Fast to Slow) Stop Run Counterclockwise rotation (Slow to Fast)	 000 - 007 008 - 022 023 - 037 038 - 052 053 - 067 068 - 082 083 - 097 098 - 112 113 - 127 128 - 189 190 - 193 194 - 255
11	12	12	**GOBO** Open Gobo 1 Gobo 2 Gobo 3 Gobo 4	 000 - 007 008 - 015 016 - 023 024 - 031 032 - 039

MODE 15 Ch	MODE 18 Ch	MODE 23 Ch	FUNCTION	DMX Value
	12	12	Gobo 5	040 - 047
			Gobo 6	048 - 055
			Gobo 7	056 - 063
			Gobo 1 Shaking	064 - 073
			Gobo 2 Shaking	074 - 082
			Gobo 3 Shaking	083 - 091
			Gobo 4 Shaking	092 - 100
			Gobo 5 Shaking	101 - 109
			Gobo 6 Shaking	110 - 118
			Gobo 7 Shaking	119 - 127
			Clockwise rotation (Fast to Slow)	128 - 189
			Stop Rotation	190 - 193
			Counterclockwise rotation (Slow to Fast)	194 - 255
12	13	13	**GOBO ROTATION**	
			Stop Rotation	000 - 127
			Clockwise rotation (Fast to Slow)	128 - 189
			Stop Rotation	190 - 193
			Counterclockwise rotation (Slow to Fast)	194 - 255
13	14	14	**PRISM**	
			Prism Off	000 - 010
			Prism On	011 - 127
			Clockwise rotation (Fast to Slow)	128 - 189
			Stop Rotation	190 - 193
			Counterclockwise rotation (Slow to Fast)	194 - 255
14	15	15	**STROBE**	
			Shutter Closed	000 - 031
			No Function (Shutter open)	032 - 063
			Strobe Effect (Slow to Fast)	064 - 095
			No function (Shutter open)	096 - 127
			Pulse-effect in sequence	128 - 159
			No function (Shutter open)	160 - 191
			Random Strobe Effect (Slow to Fast)	192 - 223
			No Function (Shutter open)	224 - 255
15	16	16	**FOCUS**	
			0~100%	000 - 255
	17	17	**DIMMER**	
			0~100%	000 - 255
		18	**COLOR MACRO**	
			No Function	000 - 010
			R:100% / G:0~100% / B:0 / W:0	011 - 030
			R:100%~0 / G:100% / B:0 / W:0	031 - 050
			R:0 / G:100% / B:0~100% / W:0	051 - 070
			R:0 / G:100%~0 / B:100% / W:0	071 - 090

MODE 15 Ch	MODE 18 Ch	MODE 23 Ch	FUNCTION	DMX Value
		18	R:0~100% / G:0 / B:100% / W:0	091 - 110
			R:100% / G:0 / B:100%~0 / W:0	111 - 130
			R:100% / G:0~100% / B:0~100% / W:0	131 - 150
			R:100%~0 / G:100%~0 / B:100% / W:0	151 - 170
			R:100% / G:100% / B:100% / W:100%	171 - 200
			Color 1	201 - 205
			Color 2	206 - 210
			Color 3	211 - 215
			Color 4	216 - 220
			Color 5	221 - 225
			Color 6	226 - 230
			Color 7	231 - 235
			Color 8	236 - 240
			Color 9	241 - 245
			Color 10	246 - 250
			Color 11	251 - 255
		19	**AUTO PROGRAM**	
			No Function	000 - 010
			4 Colours Snap	011 - 070
			4 Colours Fade	071 - 130
			15 Colours Snap	131 - 190
			15 Colours Fade	191 - 250
			Sound Control	251 - 255
		20	**AUTO PROGRAM SPEED**	
			Speed (Slow to Fast)	000 - 255
			SOUND SENSITIVITY	
			Sound Sensitivity OFF	000 - 010
			Control the Sound Sensitivity	011 - 255
		21	**MOTOR SHOW**	
			No Function	000 - 010
			Motor Show 1	011 - 058
			Motor Show 2	059 - 106
			Motor Show 3	107 - 154
			Motor Show 4	155 - 202
			Motor Show 5 (Motor Show 1 - 4)	203 - 250
			Motor Show 6	251 - 255
		22	**MOTOR SHOW SPEED**	
			Speed (Slow to Fast)	000 - 255
	18	23	**DIMMER SPEED MODE**	
			Preset dimmer speed from display menu	000 - 051
			Dimmer speed mode off	052 - 101
			Dimmer speed mode 1	102 - 152
			Dimmer speed mode 2	153 - 203
			Dimmer speed mode 3	204 - 255

3.8 DMX CONFIGURATION

The PIXIESPOT has 3 DMX channels configurations selectable through the control panel.

- Press the button LEFT to enter the menu mode.
- Use the buttons UP/DOWN to select the DMX Functions item. Press the button ENTER to confirm.
- Press the buttons UP/DOWN to select the DMX Channels item. Then press the button ENTER to confirm.
- Press the buttons UP/DOWN to select the desired configuration **15CH - 18CH - 23CH**. ; Then press the button ENTER to save.
- Press repeatedly the button LEFT to return the menu mode.

The tables on page 14 indicate the operating mode and DMX value. The PIXIESPOT is equipped with 3-pole XLR connections.

3.9 AUTOSHOW

To enter in the automatic mode and allow to the unit to carry out its show program independently follow the instructions below:

- Press the button LEFT to enter the menu mode.
- Use the buttons UP/DOWN to select the **Show setup** item. Press the button ENTER.
- Press the buttons UP/DOWN to select the **Show Mode** item. Then press the button ENTER to confirm.
- Press the buttons UP/DOWN to select the desired program **Show1 - Show2 - Show3-Show4** ; Then press the button ENTER to save.
- Press repeatedly the button LEFT to return the menu mode.

3.10 FOCUS ADJUSTMENT

To set the focus regulation follow the instructions below:

- Press the button LEFT to enter the menu mode.
- Use the buttons UP/DOWN to select the **Show setup** item. Press the button ENTER.
- Press the buttons UP/DOWN to select the **Focus adjust** item. Then press the button ENTER to confirm.
- Press the buttons UP/DOWN to select the desired values (**000-255**); Then press the button ENTER to save.
- Press repeatedly the button LEFT to return the menu mode.

3.11 MOTOR SETTINGS

To change the unit parameters follow the instructions below:

- Press the button LEFT to enter the menu mode.
- Use the buttons UP/DOWN to select the Motor Setup item. Press the button ENTER.
- Press the buttons UP/DOWN to select the desired option item and press the button ENTER to confirm:
  - **Pan Inverse** - Used for reversing Pan movement. Select **Pan Inverse**, press ENTER button to confirm, present mode will blink on the display, use UP/DOWN button to select **No** (normal) or **Yes** (pan inverse), press ENTER button to store.
  - **Tilt Inverse -** Used for reversing tilt movement. Select **Tilt Inverse**, press ENTER button to confirm, present mode will blink on the display, use UP/DOWN button to select **No** (normal) or **Yes** (tilt inverse), press ENTER button to store.
- **Motor Offset** - Allows you to set an offset for the pan/tilt motor. After selecting **Motor Setup** function press button ENTER to confirm. Use the buttons UP/DOWN to select **Pan Offset - Tilt Offset - Gobo Offset - Prism Offset - Focus Offset** and press the button ENTER. Set through the directional buttons the desired value (**000-255**). Then press the button ENTER.
- Press repeatedly the button LEFT to return the menu mode.

3.12 FIXTURE SETTINGS

You can change the parameters for the device by following these steps:

- Press the button LEFT to enter the menu mode.
- Use the buttons UP/DOWN to select the System setup item. Press the button ENTER to confirm.
- Press the buttons UP/DOWN to select the desired option item and press the button ENTER to confirm:
  - **Master/Slave** - This configuration allows to connect many units PIXIESPOT. The first will be set as **Master** and the others will work as **Slave** with the same effect. Press the buttons UP/DOWN to set the units as master or slave. Press the button ENTER to confirm. Use PIXIESPOT DMX connectors and XLR cable to do a units chain.
  - **Sound Sence** - Microphone sensibility for the control through musical command in autoshow modality. After selecting **Sound Sence** function press the button ENTER to confirm. Use the buttons UP/DOWN to select the desired value (**000-100**). Then press the button ENTER.
    NOTE - 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 or alternatively increase the sensitivity of the microphone.
  - **White Balance** - White Balance function. Select the **White Balance** function to set the white balance by changing the values (125-255) of the colors **Red, Green and Blue**.
  - **Dimmer Mode** - Adjusting the dimmer. Enter in **Dimmer Mode** to select specific dimming curve. Particularly when set:
    - **Off:** The increase in light intensity is linear
    - **Dimmer 1:** Light intensity control is finger at low levels and coarse at high levels.
    - **Dimmer 2:** Light intensity control is finger at high levels and coarse at low levels.
    - **Dimmer 3:** Light intensity control is finger at low levels and high levels and coarse at medium levels.
  - **Fan Mode** - Fan speed. Select the desired fan speed **High Speed** or **Auto Speed** through the button UP/DOWN.
  - **Factory Settings** - Factory reset. Select **Factory Settings** function and then **Yes** to restore all values to the original factory settings.
- Press repeatedly the button LEFT to return the menu mode.

3.13 DISPLAY SETTINGS

- Press the button LEFT to enter the menu mode.
- Press the buttons UP/DOWN to select the **Display setup** item. Then press the button ENTER.
- Press the buttons UP/DOWN to select the desired option item and press the button ENTER to confirm:
  - **Display Inverse** - Used for reversing display. Select **Display Inverse**, press ENTER button to confirm, present mode will blink on the display, use UP/DOWN button to select **No** (normal display) or **Yes** (inverse display), press ENTER button to store.
  - **Back Light** - Display backlight. Select **Back Light**, press ENTER button to confirm. Use the UP/DOWN keys to select **On** for display always on or **Off** for setting display off one minute after the exit from the menu.
  - **Warn Cue** - Select **Warn Cue**, press ENTER button to confirm, present mode will blink on the display, use UP/DOWN button to select **No** (Normal) or **Yes** (display will show the error warning when the unit went wrong).
- Press repeatedly the button LEFT to return the menu mode.

3.14 FIXTURE TEST

Auto Test

Allow checking the proper functioning of the unit. Start the automatic test in the following way:

- Press the button LEFT to enter the menu mode.
- Use the buttons UP/DOWN to select the **Test Setup** item. Press the button ENTER to confirm.
- Press the buttons UP/DOWN to select the **Auto Test** item.
- To confirm and start the automatic test press the ENTER button.

Manual Test

It allows to do adjustments on the effects through comands pannel to obtain a perfect balance between the projectors.

- Press the button LEFT to enter the menu mode.
- Press the buttons UP/DOWN to select the item **Test Setup**. Then press the button ENTER.
- Press the buttons UP/DOWN to select the Manual Test item. Then press the button ENTER.
- Select the effect you want change (**Pan, Pan Fine, Tilt, Tilt Fine, P/T Speed, Dimmer, Shutter, Red, Green, Blue, White, Gobo, RGobo, Prism, Rprism, Focus)**.Then press the button ENTER to confirm
- Use the directional buttons to calibrate the effect setting a value between 0 - 255. Then press the button ENTER to confirm
- Press repeatedly the button LEFT to return the menu mode.

3.15 RESET FUNCTIONS

Auto reset

- Press the button LEFT to enter the menu mode.
- Press the buttons UP/DOWN to select the item **Reset Setup**. Then press the button ENTER.
- Press the buttons UP/DOWN to select the item **Auto reset**. Then press the button ENTER to confirm and to restart automatically

Manual reset

- Press the button LEFT to enter the menu mode.
- Press the buttons UP/DOWN to select the item **Reset Setup**. Then press the button ENTER.
- Press the buttons UP/DOWN to select the item **Manual reset**. Then press the button ENTER to confirm.
- Press the buttons UP/DOWN to select the function you want reset between **Pan, Tilt, Gobo, Prism e Focus**. In this way selecting **Yes** it is possible to start a preset program to restore the selected function.
- Then press the button ENTER to confirm, waiting the reactivation of the function.

3.16 FIXTURE INFORMATION

- Press the button LEFT to enter the menu mode.
- Press the buttons UP/DOWN to select the item **Information**. Then press the button ENTER.
- Press the buttons UP/DOWN to select the desired option item and press the button ENTER to confirm:
  - **Fixture Time** - Through the **Fixture Time** function you can display the operating time of the projector.
  - **Software Version** - Select **Software Version**, press ENTER button to confirm, firmware version will show on the display.
  - **Temperature -** Through the function **Temperature** can be displayed on the display the temperature of the device in ° C.
- Press repeatedly the button LEFT to return the menu mode.

- 4 - MAINTENANCE

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.
- When the lens is visibly damaged due to cracks or deep scratches, it must be replaced.
- The main cables must be in impeccable condition and should be replaced immediately even when a small problem is detected.
- In order to protect the device from overheating the cooling fans (if any), and ventilation openings should be cleaned monthly.

To ensure optimal operation and performance for a long time it is essential to periodically clean the parts subject to dust and grease deposits. The frequency with which the following operations are to be carried out depends on various factors, such as the amount of the effects and the quality of the working environment (air humidity, presence of dust, salinity, etc.). Use a soft cloth dampened with any detergent liquid for cleaning glass to remove the dirt from the reflectors, from the lenses and filters.
It is recommended that the projector undergoes an annual service by a qualified technician for special maintenance involving at least the following operations:

- General cleaning of internal parts..
- Restoring lubrication of all parts subject to friction, using lubricants specifically.
- General visual check of the internal components, cabling, mechanical parts, etc.
- Electrical, photometric and functional checks; eventual repairs.

Warning: we strongly recommend internal cleaning to be carried out by qualified personnel!

4.2 FUSE REPLACEMENT

1. Disconnect this product from the power outlet.
2. Using a screwdriver, unscrew the fuse holder cap from the housing.
3. Remove the blown fuse and replace with a good fuse of the same type and rating.
4. Screw the fuse holder cap back in place and reconnect power.

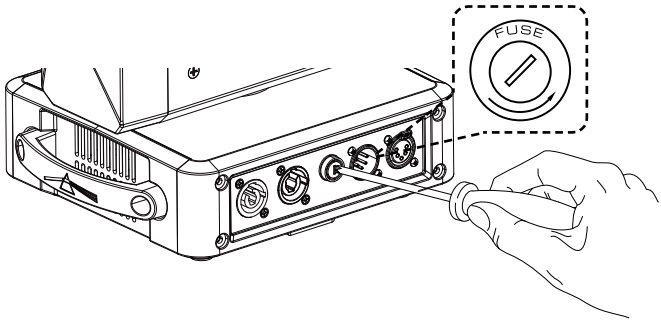


Fig.8

4.3 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.

Note