

User Manual: Squareled Timber 400W Slim Par

Squareled



User Manual

Please read the instructions carefully

TABLE OF CONTENTS

- 1. Safety Instructions
- 2. Technical Specifications
- 3. Installation
- 4. How to set the unit
- 5. How to control the unit
- 6. DMX512 Configuration
- 7. DMX512 Connections
- 8. Troubleshooting
- 9. Fixture Cleaning

1. Safety Introductions



Please read the instructions carefully which includes important information about the installation, operation and maintenance.

- Please keep this User Manual for future consultation. If you sell the fixture to another user, be sure that they also receive this
 instruction booklet.
- Unpack and check carefully there is no transportation damage before using the fixture.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Disconnect main power before servicing and maintenance.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Maximum ambient temperature is Ta: 40°C. Don't operate it where the temperature is higher than this.
- Unit surface temperature may reach up to 85°C. Don't touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
- In the event of serious operating problem, stop using the fixture immediately. Never try to repair the fixture by yourself. Repairs
 carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance
 center. Always use the same type spare parts.
- Do not connect the device to any dimmer pack.
- Do not touch any wire during operation and there might be a hazard of electric shock.
- To prevent or reduce the risk of electrical shock or fire, do not expose the fixture to rain or moisture.
- The housing must be replaced if they are visibly damaged.
- Do not look directly at the LED light beam while the fixture is on.
- There are no user serviceable parts inside the fixture. Do not open the housing or attempt any repairs by yourself. In the unlikely
 event your fixture may require service, please contact your nearest dealer.
- Due to the magnifying type lens, please keep the lens out of contact with direct sunlight. Direct sunlight can cause heat to build up
 inside of the unit, which will seriously damage unit.

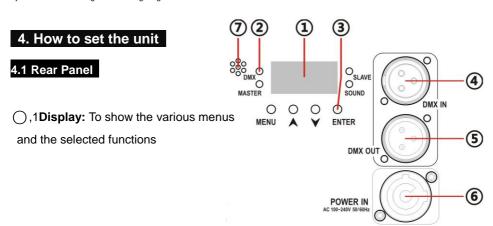
2. Technical Specifications

- DMX 1/2/4/8/10/12 channels switchable.
- Smooth 0~100% dimming and variable strobe speeds.
- Three operation modes: DMX, Mater/Slave mode, Sound Active.
- Ideal for discotheques, clubs, bars, parties, Mobile DJs, ect.
- Power Supply: 120~230V 50/60Hz
- Power consumption: 350W
- LED: 918PCS SMD 5730,0.5 W (3200K WW)
- Dimension: 430*420* 85 mm
- Weight: 8.2 kgs

3. Installation

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. Always ensure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people and has no one pass by or under it, the range of mounting height is 0~30 M.



(),2LED:

| DMX | On | DMX input present |
|--------|----------|-------------------|
| MASTER | On | Master Mode |
| SLAVE | On | Slave Mode |
| SOUND | Flashing | Sound activation |

(),3Button:

| MENU | To select the programming functions with short press. |
|-------|---|
| DOWN | To go backward in the selected functions |
| UP | To go forward in the selected functions |
| ENTER | To confirm the selected functions |

- ,4DMX input: For DMX512 link, use 3/5-pin XLR plug cable to input DMX signal.
- ,5DMX output: For DMX512 link, use 3/5-pin XLR plug cable to link the next unit.
- ,6POWER input: Connect to supply mains power.
- ,7Microphone: Receive music for the sound active.

4.2 Main Function

To select any functions, press **MENU** button until the required one is shown on the display. Select the function by **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the mode. Once the required mode has been selected, press **ENTER** button to setup or it will automatically return to the main functions without any change after idling 30 seconds. Back to the functions without any change press **MENU** button. The main functions are shown below:

| DMX Address | 1-512 | | |
|------------------|---------------------|--|--|
| | 1CH | | |
| | 2 CH | | |
| Channel Mode | 4 CH | | |
| Channel Mode | 8 CH | | |
| | 10 CH | | |
| | 12 CH | | |
| Slave Mode | Master | | |
| Slave Mode | Slave 1- Slave 15 | | |
| Show Mode | Show0~Show12 Manual | | |
| Manual Mode | Dimmer 0 - 255 | | |
| iviariuai ivioue | Strobe 0 - 255 | | |
| Sound State | Sound mode | | |
| Sound State | On - Off | | |
| Sound Sense | Sound sense 0-100% | | |
| Blackout Mode | Yes | | |
| blackout wode | No | | |
| Display LED mode | On – Off | | |
| Display Inverse | disp-dsip | | |
| Auto Test | | | |
| Temperature | | | |
| Fixture Time | Fixture hours | | |
| TIALUIG TIITIG | 0 ~ 9999 | | |
| Version | V 10 | | |

| DMX 512 Address Setting |
|---|
| Press the MENU button up to when the Rouse is shown on the display. Pressing the ENTER button and the display will blink. Use the DOWN and UP button to change the DMX 512 address. Once the address has been selected, press the ENTER button to setup on |
| automatically exit menu mode without any change after 7 seconds. Back to the previous functions without any change press the MENU |
| button. |
| |
| Channel Mode |
| Press the MENU button up to when the is shown on the display. Pressing the ENTER button, Use the DOWN and UP button |
| to select the LLL (1 channel) or LLL (2 channels) or LLL (4 channels) or SLL (5 channels) or |
| channels) or III(9 Channels) mode. Once selected, press the ENTER button to setup or automatically exit menu mode without |
| any change after 7 seconds. To go back to the functions without any change press the MENU button |
| |
| SLOB Slave Mode |
| Press the MENU button up to when the SLDD is shown on the display. Pressing the ENTER button, Use the DOWN and UP button |
| to select the SLII (slave 1) or SLIZ (slave 2) or SLII (Slave 15)mode. Once selected, press the ENTER button to |
| setup or automatically exit menu mode without any change after 7 seconds. To go back to the functions without any change press the |
| MENU button. |
| |
| Show Mode |
| Press the MENU button up to when the Shnd is shown on the display. Pressing the ENTER button, Use the DOWN and UP button |
| to select the ShO (Random show) or ShO (show 1) or ShO (Show 2) or or Rhou (Manual). Once |

selected, press the ENTER button to store or automatically exit menu mode without any change after 7 seconds. To go back to the

functions without any change press the MENU button

| Nanual Mode |
|---|
| Press the MENU button up to when the library is shown on the display. Pressing the ENTER button, Use the DOWN and UP button to select the library (strobe) or library (dimmer). Once selected library (pressing the ENTER button, Use the |
| button to select the (strobe) or (dimmer). Once selected, Pressing the ENTER button, Use the DOWN and UP button to change the strobe 0 – 255.Once selected, press the ENTER button to store. If you selected, Pressing |
| the ENTER button, Use the DOWN and UP button to change the dimmer 0 – 255, Once selected, press the ENTER button to setup or |
| automatically exit menu mode without any change after 60 seconds. To go back to the functions without any change press the MENU |
| button |
| |
| Sound Sound |
| Press the MENU button up to when the Sound is shown on the display. Pressing the ENTER button, Use the DOWN and UP button |
| to select the (sound on) or (sound on) or (sound off). Once selected, press the ENTER button to setup or automatically exit |
| menu mode without any change after 7 seconds. To go back to the functions without any change press the MENU button. |
| |
| Sound Sense |
| Press the MENU button up to when the SCOS is shown on the display. Press the ENTER button and the display will blink. Use the |
| DOWN and UP buttons to adjust the sound sensitively (0-100) of the unit. Once selected, press the ENTER button to setup or |
| automatically exit menu mode without any change after 7 seconds. To go back to the functions without any change press the MENU |
| button. |
| |
| Blackout mode |
| Press the MENU button up to when the blid is shown on the display. Pressing the ENTER button, Use the DOWN and UP button |
| to select the 385 (blackout) or normal). Once selected, press the ENTER button to setup or automatically exit menu |
| mode without any change after 7 seconds. To go back to the functions without any change press the MENU button. |
| |

| LED display |
|--|
| Press the MENU button up to when the LCO is shown on the display. Pressing the ENTER button and the display will blink. Use the DOWN and UP button to select (display on) or LOFF (display off) mode. Once selected, press the ENTER button to setup or exit menu mode without any change after 7 seconds. Back to the functions without any change press the MENU button again. |
| Display Inverse Press the MENU button until DISP is blinking on the display. Press the ENTER button to select DISP (normal) or DISP (inverse). Back to the functions without any change press the MENU button. |
| Press the MENU button up to when the ESS is blinking on the display. Pressing ENTER button and the unit will run the built-in programmer for self-test. To go back to the functions press the MENU button. |
| Temperature Press the MENU button up to when the is blinking on the display. Pressing ENTER button and the display will show the number of LED temperature of the unit. To go back to the functions press the MENU button. |
| Fixture Hours Press the MENU button up to when the Fhrs is blinking on the display. Pressing ENTER button and the display will show the number of working hours of the unit. To go back to the functions press the MENU button. |
| Software version Press the MENU button up to when the Lacronian is blinking on the display. Pressing ENTER button and the display will show the version of software of the unit. To go back to the functions press the MENU button. |

5. How To Control The Unit

You can operate the unit in three ways:

- 1. By master/slave built-in preprogram function
- 2. By easy controller
- 3. By DMX controller

No need to turn the unit off when you change the DMX address, as new DMX address setting will be affected at once. Each time you turn the unit on, it will show "ITE ITES" on the display. After that the unit will be ready to receive DMX signal or run the built in programs.

5.1 Master/Slave Built In Preprogrammed Function

By linking the units in master/slave connection, the first unit will control the other units to give an automatic, sound activated, synchronized light show. This function is good when you want an instant show. You have to set the first unit in master mode and select [Show] (random show), [Show] (show 1) or ...or [Show] (show 8). Its DMX input jack will have nothing plugged into it, and Its master LED will be constantly on and sound LED will flash to the music.

5.2 DMX Controller

Using universal DMX controller to control the units, you have to set DMX address from 1 to 512 channel so that the units can receive DMX signal.

Press the **MENU** button up to when the **Pddr** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the DMX512 address. Once the address has been selected, press and keep **ENTER** button pressed up to when the display stops blinking or storing automatically 8 seconds later. To go back to the functions without any change press the **MENU** button again. If you use please refer to the following diagram to address your DMX512 channel for the first 4 /2 units.

| Channel Mode | Unit 1 | Unit 2 | Unit 3 | Unit 4 |
|--------------|--------|--------|--------|--------|
| 1 Channel | 1 | 2 | 3 | 4 |
| 2 Channel | 1 | 3 | 5 | 7 |
| 4 Channel | 1 | 5 | 9 | 13 |
| 8 Channel | 1 | 9 | 17 | 25 |
| 10 Channel | 1 | 11 | 21 | 31 |
| 12 Channel | 1 | 13 | 25 | 37 |

6. DMX512 Configuration

1- CH mode:

| 1 CH Mode | | | | | |
|-----------|-------------------|--|--|--|--|
| 000-007 | Led Black out | | | | |
| 008-027 | Led chase1 | | | | |
| 028-047 | Led chase2 | | | | |
| 048-067 | Led chase3 | | | | |
| 068-087 | Led chase4 | | | | |
| 088-107 | Led chase5 | | | | |
| 108-127 | Led chase6 | | | | |
| 128-147 | Led chase7 | | | | |
| 148-167 | Led chase8 | | | | |
| 168-187 | Led chase9 | | | | |
| 188-207 | Led chase10 | | | | |
| 208-227 | Led chase11 | | | | |
| 228-247 | Led chase12 | | | | |
| 248-255 | Sound random mode | | | | |

2-CH mode:

| 2 CH Mode | | | | | |
|---------------|-------|---------------------|--|--|--|
| 1CH 2CH | | | | | |
| 000 - 255 | 0-8 | open | | | |
| Master dimmer | 9-255 | strobe slow to fast | | | |

4-CH mode:

| 4 CH Mode | | | | | | |
|-------------------------------|-------|---------------------|-------------|-------------------|------------------------|--|
| 1CH | | 2CH | | 4CH | | |
| | | | 000-007 | Led Blackout | | |
| | | | 008-027 | Led chase1 | | |
| | 0.7 | | 028-047 | Led chase2 | | |
| | 0-7 | | 048-067 | Led chase3 | | |
| | open | open | 068-087 | Led chase4 | | |
| 000 055 | | | 088-107 | Led chase5 | 000 055 | |
| 000 - 255 Master dimmer | | | 108-127 | Led chase6 | 000 - 255 Led chase | |
| | | | 128-147 | Led chase7 | speed | |
| | | | 148-167 | Led chase8 | Speed | |
| | | | | 168-187 | Led chase9 | |
| | | | 188-207 | Led chase10 | | |
| | | 208-227 | Led chase11 | | | |
| | | | 228-247 | Led chase12 | | |
| | 9-255 | strobe slow to fast | 248-255 | Sound random mode | | |

8-CH mode:

| 8 CH Mode | | | | | | | |
|-----------|---------|---------|---------|---------|---------|---------|---------|
| 1CH | 2CH | 3CH | 4CH | 5CH | 6CH | 7CH | 8CH |
| | | | | | | | |
| | | | | | | | |
| 0 - 255 | 0 - 255 | 0 - 255 | 0 - 255 | 0 - 255 | 0 – 255 | 0 - 255 | 0 - 255 |
| LED1 | LED2 | LED3 | LED4 | LED5 | LED6 | LED7 | LED8 |
| dimmer | dimmer | dimmer | dimmer | dimmer | dimmer | dimmer | dimmer |
| | | | | | | | |
| | | | | | | | |

10-CH mode:

| | 10 CH Mode | | | | | | | |
|---------|------------|--|---------|---------|---------|---------|-------------------------|--|
| 1CH | 2CH | | 7CH | 8CH | 9CH | 10CH | | |
| | | | | | | 0-8 | open | |
| | | | | | | 9-131 | strobe slow to fast | |
| | | | | | | 132-139 | open | |
| 0 - 255 | 0 - 255 | | 0 - 255 | 0 - 255 | 0 - 255 | 140-181 | fast close slow open | |
| LED1 | LED2 | | LED7 | LED8 | Master | 182-189 | open | |
| dimmer | dimmer | | dimmer | dimmer | dimmer | 190-231 | fast open slow close | |
| | | | | | | 232-239 | open | |
| | | | | | | 240-247 | random strobe | |
| | | | | | | 247-255 | open | |

12-CH mode:

| ľ | 12CH Mode | | | | | | | | |
|---|---------------------------|---------------------------|--|---------------------------|---------------------------|-----------------------------|--|--|--|
| ĺ | 1CH | 2CH | | 7CH | 8CH | 9CH | | | |
| | 0 - 255 LED1 dimmer | 0 - 255 LED2 dimmer | | 0 - 255 LED7 dimmer | 0 - 255 LED8 dimmer | 0 - 255 Master dimmer | | | |
| | armmer | alimilei | | ullilliel | dimmer | armmer | | | |

| 12 CH Mode | | | | | | | |
|------------|---------------------------|---------|-------------------|---------------------------------|--|--|--|
| | 10CH | 11CH | | 12CH | | | |
| 0-7 open | | 000-007 | Led Blackout | | | | |
| 8-131 | 8-131 strobe slow to fast | | | | | | |
| 132-139 | open | 008-027 | Led chase1 | 000 - 255 Led chase speed | | | |
| 140-181 | fast close slow open | 028-047 | Led chase2 | | | | |
| 182-189 | open | 048-067 | Led chase3 | | | | |
| 190-231 | fast open slow close | 068-087 | Led chase4 | | | | |
| 232-239 | open | 088-107 | Led chase5 | | | | |
| 240-247 | random strobe | 108-127 | Led chase6 | | | | |
| 247-255 | open | 128-147 | Led chase7 | | | | |
| | | 148-167 | Led chase8 | | | | |
| | | 168-187 | Led chase9 | | | | |
| | | 188-207 | Led chase10 | | | | |
| | | 208-227 | Led chase11 | | | | |
| | | 228-247 | Led chase12 | | | | |
| | | 248-255 | Sound random mode | | | | |

7. DMX512 Connections

mode connection:



Termination reduces signal errors and to avoid signal transmission problems and interference. It is always advisable to connect a DXM terminal. (Resistance 120 ohm 1/4W) between pin2(DXM-) and



(Resistance 120 ohm 1/4W)between pin2(DXM-)and pin3(DXM+) of the last fixture.

- Connect the fixture together in a "daisy chain" by XLR plug cable from the output of the fixture to the input of the next fixture. The
 cable cannot be branched or split to a "Y" cable. Inadequate or damaged cables, soldered joints or corroded connectors can easily
 distort the signal and shut down the system.
- 2. The DMX output and input connectors are pass-through to maintain the DMX circuit when one of the units' power is disconnected.
- At last fixture, the DMX cable has to be terminated with a terminator to reduce signal errors. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.
- Each lighting fixture needs to have an address set to receive the data sent by the controller. The address number is between 0-511
 (usually 0 & 1 are equal to 1).
- 3 pin XLR connectors are more popular than 5 pins XLR.

3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4/5:
not used

8. Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The fixture does not work, no light

- 1. Check the connection of power and main fuse.
- 2. Measure the mains voltage on the main connector.

B. Not responding to DMX controller

- 1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
- 2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
- 3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the fixture or the previous one.
- 4. Try to use another DMX controller.
- Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. Some fixtures don't respond to the easy controller

- 1. You may have a break in the DMX cabling.
- 2. Check the LED for the response of the master/ slave mode signal.

D. No response to the sound

- 1. Make sure the fixture does not receive DMX signal.
- 2. Check microphone to see if it is good by tapping the microphone.

E. One of the channels is not working well

- 1. The stepper motor might be damaged or the cable connected to the PCB is broken.
- 2. The motor's drive IC on the PCB might be out of condition.

9. Fixture Cleaning

The cleaning of internal must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the fixture's optics.

- · Clean with soft cloth using normal glass cleaning fluid.
- · Always dry the parts carefully.
- . Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

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