



CLS LED PAR64 GII

Version 1.0 October 2011

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INTRODUCTION

Thank you for selecting the CLS LED PAR64 GII with 512 DMX-channels. The CLS LED PAR64 GII is a universal DMX controlled luminairy that uses 390 5mm LEDs to create an even light-output.

Available LED PAR64 GII

875565 CLS LED PAR64 GII RGB DMX 36VA 110-230VAC

The CLS LED PAR64 GII features:

- 110 ~ 230 VAC input
- DMX input (3/5 channels)
- Auto-change mode
- Stand alone or DMX 512 controllable
- Manual setting
- Indoor use only

Included items

The CLS LED PAR64 GII is shipped in one package containing the following items:

- 1 CLS LED PAR64 GII
- 1 user manual
- 1 filter frame

Optional accessories

| • 707028 | CLS Zense DMX controller + built in 4 amp RGB dimmer |
|----------|--|
| • 707030 | CLS ACX60 DMX controller for max. 60 channels |
| • 875580 | CLS PAR RGB DMX controller |
| • 911200 | CLS Extension cable black XLR male/female 80cm |
| • 911201 | CLS Extension cable black XLR male/female 1.5mtr |
| • 911203 | CLS Extension cable black XLR male/female 3mtr |
| • 911205 | CLS Extension cable black XLR male/female 5mtr |
| • 911206 | CLS Extension cable black XLR male/female 10mtr |

Note: It is important to read this manual before you install this product.

CLS Extension cable black XLR male/female 15mtr

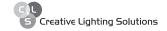
CLS Extension cable black XLR male/female 20mtr

SAFETY INFORMATION

• 911207

• 911209

Warning! This product is for professional use only. Read this manual before powering up or installing the CLS LED PAR64 GII. Follow the instructions listed below and observe all warnings in this manual.





Protection from electric shock

- Disconnect the power supply from AC power before installing, dismounting or maintening of the unit.
- Make sure all connectors are connected properly.
- Use only a source of AC power that complies with local building and electrical codes.
- Do not expose the unit to rain or moisture.
- Refer all service to a qualified technician.

Protection from burns and fire

- Provide a clearance of at least 50 mm around the unit.
- Do not install the LED PAR64 GII near a heat source.
- Do not install the LED PAR64 GII in a corrosive, flammable or explosive area.
- Do not modify the LED PAR64 GII, or install other than genuine parts.
- Do not operate the unit if the ambient temperature exceeds 35 °C.
- Operate in a well-ventilated area

Protection from damage due to falls

- Verify that all covers and mounting hardware is securely fastened.
- Block access below the work area whenever installing or removing the unit.

SETUP AND OPERATION MODES (LED SEGMENT DISPLAY)

The following refers to the different modes that are available on this fixture via the LED Segment Control Panel display. All functions are selectable from the display menu located at the back of the fixture.

Control Panel Menu

Use the fixture's Control Panel to access the Control Menu. The MENU Key puts the fixture in the settings menu itself and also acts as a BACK key between options, UP/DOWN moves through the menu options and allows the assignment of a value.

The ENTER key is used to enter that option and confirms the selection once the UP/DOWN is used to adjust the value. When in edit, the display will Flash. Settings are stored and recalled on subsequent power cycles. R, G, B, refers to Red, Green and Blue respectively. DMX and master/slave modes require data cables to be connected between fixtures. Manual and some stand-alone modes do not require data cables for independent use of the fixture.

- 3 -

Control Panel Menu Table

The following table describes the control panel's menu options and settings. What is displayed on the screen is marked in "quotations". When this unit powers up, it will display "SYON" for System Power On.

| Menu options | Function | Options |
|----------------------|---|--|
| MODE [MODE] | Select Number of DMX operating channels | 01 = 3ch, 02 = 4ch, 03 = 5ch or 04 = 6ch |
| ADDRESS [ADDR] | Select DMX start address | 1-512 |
| COLBALANCE [COBA] | Enable/disable colour balance preferences | BALANCE [BAL]: Off or on [RGB]-set individual values for the Colour balance: R 0-255, G 0-255, B 0-255 |
| DISPLAY [DISP] | Set the Display Backlight | Off or on On= always On Off= auto Off |
| MANUAL [MANL] | Manual operations options | RESET [RESY] TEST [TEST]: Test the individual colours: R 0-255, G 0-255, B 0-255 PROGRAMMER "PROG": SCENE [SCEN]: 16 user programmable scenes: SC01-16 set R 0-255, G 0-255, B 0-255 strobe 0-255 CHASE [CHAS]: 6 user programmable chases: CA01-06 set speed S000-255 |
| STANDALONE [STAL] | functions for automatic run options | SOUND [SOND]: Off or 001 - 100 MASTER [MAST]: Off or on SLAVE [SLAV]: Off or 001-031 PLAYBACK [PLAY]: Scene SC01-16 or Chase CA01-06 |

- 4 -



DMX-512 CONTROL

Fixtures require a 'Start Address' from 1 to 512, setting the first DMX channel containing data for the fixture (see DMX Background). Before addressing fixtures, consult the manual of the system's DMX controller to select a desirable addressing scheme. Valid Start Addresses range from 1 to 512.

Fixtures requiring more than one channel for control will read subsequent channels up to the total number of channels required. Since this fixture requires a maximum of 6 channels of DMX, if set to a Start Address of 7 it would use data from channels: 7 and 8, 9, 10, 11, 12. Choose a Start Address so the channels used do not overlap with other fixtures.

In some cases, it may be desirable to set two or more same type fixtures to the same Start Address. In this case, the fixtures will be slaved together and respond to the same data. Because all fixtures see the same data, fixtures may be set to any address without concern for the order they are connected by the DMX cables.

Note: For DMX to operate on this unit, the MASTER option must be set to Off.

DMX Data Connection

This fixture uses 3-pin XLR type connectors and shielded twisted pair cable approved for EIA-422/EIA485 use. Fixtures are connected in Daisy Chain topography: Connection is made from the controller to the DMX-IN of the first light, then from the DMX-OUT to the DMX-IN of the next light and so on. Only one data source can be on a chain and no branching is allowed. The physical order in which the fixtures are connected is not important, use the most convenient.

Data Terminator

A Data Terminator can be connected to the DMX-OUT of the last fixture to reduce the effects of signal noise; it is not required for all installations. To make a Terminator, connect a 120-ohm 1/4 watt resistor across pin 2, Data Negative (S-) and pin 3, Data positive (S+). A qualified technician can determine if a Data Terminator is needed.

DMX Start Address

To place the fixture in DMX mode, press the MENU key, then using the UP/DOWN keys get to the Address Menu Option. Press ENTER and using the UP/DOWN buttons, set the start address number for this particular unit in the DMX chain. Once selected, press ENTER again to save your selection. More than one fixture may have the same start address, but they will behave the same. Giving a unique start address that does not overlap with any other units allows you to individually control that fixtures's features fully.

Never allow channels to overlap. You will need to select the number of channels you wish the fixture to use first. Your choices are 3, 4, 5, or 6 channel modes. This will determine the spacing of channels you will need to avoid overlapping of channels when selecting your start addresses.

- 5 -

Example: Select Start Addresses for 4 fixtures each requiring 6 channels of DMX (6 channel mode).

For this example, start with the first unit set to the first possible Start Address = 1. This fixture occupies DMX channels 1 thru 6. The next DMX channel available for a Start Address is found by adding the previous fixture's Start Address to its channel requirement: 1+6=7. To maximize channel usage, we will leave no empty channels between fixtures so the second Start Address is set to DMX channel 7 and that fixture occupies channels 7 thru 12. The third fixture will be addressed 7+6=13 and occupy channels 13 thru 18. The last fixture is addressed 13+6=19 and will occupy channels 19 thru 24. Thus, 4 fixtures using 6 channels each have Start Addresses of 1, 7, 13 and 19 and the next free channel in the system is 19+6=25.

DMX Channel Assignments

This fixture features 4 different DMX Channel modes, 3, 4, 5, and 6 channel mode. Using the 6 channel mode provides the most features, however it takes up the most channels of DMX. The different channel assignments are shown below. We will provide a full description of the values and functions of the 6 channel mode only. All other modes of less channels, do the same functions described within the 6 channel mode. Note that the channel order maybe different for each of the mode.

| 3 channel mode | 4 Channel mode | 5 Channel mode | 6 Channel mode |
|-----------------|-------------------------|-------------------------|---|
| 1 Red (0-255) | 1 Red (0-255) | 1 Red (0-255) | 1 Master dimmer (0-255) |
| 2 Green (0-255) | 2 Green (0-255) | 2 Green (0-255) | 2 Red (0-255) |
| 3 Blue (0-255) | 3 Blue (0-255) | 3 Blue (0-255) | 3 Green (0-255) |
| | 4 Master dimmer (0-255) | 4 Master dimmer (0-255) | 4 Blue (0-255) |
| | | 5 Strobe (0-255) | 5 0-4 No function, 5-84 colour macro, 85-169 colour snap, 170-255 colour fade |
| | | | 6 Strobe (0-255) |

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CHANNEL VALUES AND FUNCTIONS - 6 CHANNEL MODE

CH 1: Master Dimmer

The Master Dimmer controls the actual output level while the relative level of each colour is set by the R, G or B channels or the Colour Macro/Scroll Channel.

0 – 4 Black Out

5-255 Intensity - Dark to Full Brightness

CH 2: Red

Sets relative intensity of Red. Actual value is subject to Master Dimmer channels. The Colour Macro/Scroll Channel will override this channel.

0-4 No Output

5-255 Intensity - Off to Full On

CH 3: Green

Sets relative intensity of Green. Actual value is subject to Master Dimmer channels. The Colour Macro/Scroll Channel will override this channel.

0-4 No Output

5-255 Intensity - Off to Full On

CH 4: Blue

Sets relative intensity of Blue. Actual value is subject to Master Dimmer channels. The Colour Macro/Scroll Channel will override this channel.

0-4 No Output

5-255 Intensity - Off to Full On

CH 5: Colour Macro/Scroll

The Colour Macro/Scroll selects between 16 colours and two Colour Scroll Modes. The first Colour Scroll Mode snaps between colours, the second Colour Scroll Mode fades between colours. This will override the relative values set by the individual RGB channels 2, 3 & 4.

Colour Macro/Scroll Mode

| | 0-4 | No Macro or Scroll | 130-134 | Colour Scroll Snap Speed 10 |
|---|---------|--------------------------------------|---------|---------------------------------------|
| ı | 5-9 | Cool White | 135-139 | Colour Scroll Snap Speed 11 |
| ı | 10-14 | Lt. Blue | 140-144 | Colour Scroll Snap Speed 12 |
| ı | 15-19 | Blue | 145-149 | Colour Scroll Snap Speed 13 |
| ı | 20-24 | Purple | 150-154 | Colour Scroll Snap Speed 14 |
| ı | 25-29 | Blue Magenta | 155-159 | Colour Scroll Snap Speed 15 |
| ı | 30-34 | Magenta | 160-164 | Colour Scroll Snap Speed 16 |
| ı | 35-39 | Hot Pink | 165-169 | Colour Scroll Snap Speed 17 (Slowest) |
| ı | 40-44 | Pink | 170-174 | Colour Scroll FADE Speed 1 (Fastest) |
| ı | 45-49 | Red | 175-179 | Colour Scroll FADE Speed 2 |
| ı | 50-54 | Orange | 180-184 | Colour Scroll FADE Speed 3 |
| ı | 55-59 | Yellow | 185-189 | Colour Scroll FADE Speed 4 |
| ı | 60-64 | Lime | 190-194 | Colour Scroll FADE Speed 5 |
| ı | 65-69 | Lt. Green | 195-199 | Colour Scroll FADE Speed 6 |
| ı | 70-74 | Green | 200-204 | Colour Scroll FADE Speed 7 |
| ı | 75-79 | Teal | 205-209 | Colour Scroll FADE Speed 8 |
| ı | 80-84 | Cyan | 210-214 | Colour Scroll FADE Speed 9 |
| ı | 85-89 | Colour Scroll Snap Speed 1 (Fastest) | 215-219 | Colour Scroll FADE Speed 10 |
| ı | 90-94 | Colour Scroll Snap Speed 2 | 220-224 | Colour Scroll FADE Speed 11 |
| ı | 95-99 | Colour Scroll Snap Speed 3 | 225-229 | Colour Scroll FADE Speed 12 |
| ı | | Colour Scroll Snap Speed 4 | | Colour Scroll FADE Speed 13 |
| ı | | Colour Scroll Snap Speed 5 | | Colour Scroll FADE Speed 14 |
| ı | | Colour Scroll Snap Speed 6 | | Colour Scroll FADE Speed 15 |
| ı | | Colour Scroll Snap Speed 7 | | Colour Scroll FADE Speed 16 |
| | | Colour Scroll Snap Speed 8 | 250-255 | Colour Scroll FADE Speed 17 (Slowest) |
| | 125-129 | Colour Scroll Snap Speed 9 | | |
| | | | | |

CH 6 : Strobe

The Strobe functions in all modes. The strobe effect will toggle the Master Level between Off and its present value.

0-4 No Strobe

5-255 Strobe Effect - Slow to Fast



Maintenance

Make sure fixture is cool and disconnected from power mains before any service.

Weekly operating hours and environmental conditions will establish how often the fixtures need cleaning. Fixtures should be cleaned and inspected at least once a month to maintain optimum performance. Accumulation of dust and fog residue increases heat build up, can lead to malfunctions, overheating and reduction in maximum light output, reduced fixture life and over all performance. Before conducting any maintenance, disconnect fixture from power mains.

- Disconnect fixture from power mains.
- Use a vacuum with a soft brush to remove dust collected on external vents and internal components. If using an air compressor, use low pressures and extreme care to prevent damaging any internal parts or effects. 3) Clean all optical elements when the fixture is cold. Use a soft lint free cotton cloth or tissue and cleaner safe for plastics.
- Inspect clamps and safety cables to ensure fixture is secure and safe.

TROUBLESHOOTING

Symptom Possible causes/solutions Check for power on mains No Power Check main fuse and fuse holder

Erratic / No response to DMX Check data cables: connection and proper wiring

> Check Display settings Check Start Address

Check Master/slave settings

Incorrectly responds to (Diagnostic technique for DMX issues: Set suspect fixture's Start Address the same as a correctly functioning fixture. If both units then function correctly, issue is programming)

DMX Check Start Address Check Start Address Check for overlapping addresses

Check Menu settings

Check Data cables (faults and proper wiring)

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TECHNICAL SPECIFICATIONS

LEDs:

Voltage: 110 ~ 230 VAC Power supply:

Primary fuse: 2 amp Weight: 1,7 kg

Measurements: 350 x 255 x 220 mm (hxwxd) Control in & output: XLR 3 pole male-female Channels: 3, 4, 5 or 6 maximum

Modes: DMX512 or Stand-Alone

IP value: IP20 Housing: Ambient temperature:

LIST OF SYMBOLS

4 cm

4x4 cm



4 cm

Application area Indoor or outdoor

Application area Floor, wall or ceiling

Swivel Fixture is horizontally rotatable, indicated in degrees

Fixture is vertically rotatable, indicated in degrees

Multiple connection Possiblities on a fixture

Installation depth In centimeters

Mounting hole In centimeters

Cable length Maximum cable attached on the fixture in centimeters

Driver Driver

Excl.

Driver

Incl.

10 000 h

DMX

5

Inclusive or exclusive

1,3 kg

10.000 h

Incl.

DMX

Channels

3/4/5/6

Weight In gram/kilogram

Pressure Maximum pressure on the fixture per kg/cm²

Lifespan Of the light source in hours

Minimal bending curve in centimeters

LED pitch Pitch between the LEDs in millimeters

Cutting length Indicated by the cutting marks

DMX channels

DMX channels on a product

TopLED

Power consumption: Max. 36 VA

Control signal: DMX 512/1990

Aluminum Max. 35 °C

