



Creative Lighting Solutions



CL S LED PAR56-V3 Black/Polish

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1. INTRODUCTION

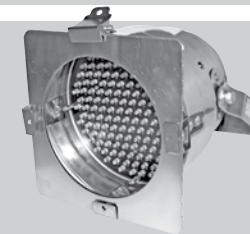
Thank you for selecting the CL S LED PAR56-V3 with 512 DMX-channels. The CL S LED PAR56-V3 is a universal DMX controlled luminaire that uses 151 5mm LEDs to create an even light-output. The CL S LED PAR56-V3 works on an input voltage of 100 ~ 240 VAC.

Available RGB LED PAR56-V3

- CL S LED PAR56-V3 Black (item nr. 875550)
- CL S LED PAR56-V3 Polish (item nr. 875552)

The CL S LED PAR56-V3 features:

- 100 ~ 240 VAC input
- DMX input (3/5 channels)
- Auto-change mode
- Stand alone or DMX 512 controllable
- Dip switches
- Manual setting
- Indoor use only



Included items

The CL S LED PAR56-V3 is shipped in one package containing the following items:

- 1 CL S LED PAR56-V3
- 1 User manual
- 1 Filter frame

Optional accessories

- 707028 CL S Zense DMX controller + built in 4 amp RGB dimmer
- 707030 CL S ACX60 DMX controller for max. 60 channels
- 875580 CL S PAR RGB DMX controller
- 911200 CL S Extension cable black XLR male/female 80cm
- 911201 CL S Extension cable black XLR male/female 1.5mtr
- 911203 CL S Extension cable black XLR male/female 3mtr
- 911205 CL S Extension cable black XLR male/female 5mtr
- 911206 CL S Extension cable black XLR male/female 10mtr
- 911207 CL S Extension cable black XLR male/female 15mtr
- 911209 CL S Extension cable black XLR male/female 20mtr

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

SAFETY INFORMATION

Warning! This product is for professional use only. Read this manual before powering up or installing the CLS LED PAR56-V3. Follow the instructions listed below and observe all warnings in this manual.

Protection from electric shock

- Disconnect the power supply from AC power before installation, dismantling or maintenance 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 RGB LED PAR-V3 near to a heat source.
- Do not install the RGB LED PAR-V3 in a corrosive, flammable or explosive area.
- Do not modify the RGB LED PAR-V3, or install other than genuine parts.
- Do not operate the unit if the ambient temperature exceeds 50°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.

INSTALLATION

This section describes in general terms how to install the CLS LED PAR56-V3, and how to connect it to a DMX data link.

Installing the CLS LED PAR56-V3

The CLS LED PAR56-V3 Black can be installed in different ways. You can support it on a shelf, or mount it by using the mounting hole.

Data linking multiple CLS LED PAR56-V3

You need to create a data link if you want to control one or more CLS LED PAR56-V3 via a DMX controller. The CLS LED PAR56-V3 can be data-linked by using the XLR 3 input and output connectors at the back of the unit.

To set up a data link you have to take the following steps:

- Disconnect all the units from the AC supply.
- Connect the XLR 3 female connector of the first CLS LED PAR56-V3 to a DMX extension cable.

Connect the other end of the DMX cable to the XLR 3 male of the next CLS LED PAR56-V3. You can use CLS DMX cables for this purpose.

- Continue connecting CLS LED PAR56-V3 in this 'daisy chain' way.
- A maximum of 32 units can be connected in this way.

DMX OPERATION

3 channel DMX Operation

With 3 channel DMX operation you need 3 DMX channels to control the CLS LED PAR56-V3.

First set the function switches to DMX 3 channel operation:

1	2	3	4	Mode
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DMX 3 channel operation

<input checked="" type="checkbox"/>	= on
<input type="checkbox"/>	= off

Now you can give the CLS RGB LED PAR56 V3 a DMX address with the selection switches:

1	2	3	4	5	6	7	8	9	10	First DMX-channel
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	64
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	128
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	256

<input checked="" type="checkbox"/>	= on
<input type="checkbox"/>	= off

Example:

DMX address 5

1	2	3	4	5	6	7	8	9	10
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DMX address 174

1	2	3	4	5	6	7	8	9	10
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

DMX address 36

1	2	3	4	5	6	7	8	9	10
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DMX address 348

1	2	3	4	5	6	7	8	9	10
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

The functions of the 3 channels are:

Channel	Function
1	Red
2	Green
3	Blue

5 channel DMX operation

With 5 channel DMX operation you need 5 DMX channels to control the CLS LED PAR56-V3.

First set the function switches to DMX 5 channel operation:

1	2	3	4	Mode
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DMX 5 channel operation

<input checked="" type="checkbox"/>	= on
<input type="checkbox"/>	= off

Now you can give the CLS LED PAR56-V3 Black a DMX address with the selection switches. See table on page 3.

Channel 1 value	Function
0 - 63	RGB control, CH2 = red, CH3 = green, CH4 = blue
64 - 127	7 colour fade, CH5 = speed control
128 - 191	7 colour change, CH5 = speed control
192 - 255	3 colour change, CH5 = speed control
Channel 2 value	
0 - 255	Red
Channel 3 value	
0 - 255	Green
Channel 4 value	
0 - 255	Blue
Channel 5 value	
0 - 10	No speed
11 - 100	Fast to low speed
101 - 150	No speed
151 - 255	Speed control by unit, (potentiometer)

STAND-ALONE OPERATION



ATTENTION!
BEFORE SETTING A STAND-ALONE MODE, FIRST UNPLUG THE EXTERNAL DMX CABLE TO A DMX CONTROLLER. YOU DON'T NEED A DMX CONTROLLER FOR THESE MODES!

STATIC COLOURS

You can set the CLS LED PAR56-V3 on a fixed colour. First set the function switches to Static Colour Mode

1	2	3	4	Mode
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Static colour mode

Now create a colour you wishes with the selection-switches:

<input checked="" type="checkbox"/>	= on
<input type="checkbox"/>	= off

1	2	3	4	5	6	7	8	9	10	Colour	Brightness
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RED	0%
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GREEN	0%
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BLUE	0%
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RED	14%
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GREEN	14%
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BLUE	14%
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RED	28%
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GREEN	28%
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BLUE	28%
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RED	42%
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GREEN	42%
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BLUE	42%
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RED	57%
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GREEN	57%
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BLUE	57%
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RED	71%
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GREEN	71%
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BLUE	71%
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RED	85%
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GREEN	85%
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BLUE	85%
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	RED	100%
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GREEN	100%
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	BLUE	100%

Example:
Magenta

1	2	3	4	5	6	7	8	9	10
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Yellow

1	2	3	4	5	6	7	8	9	10
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Cyan

1	2	3	4	5	6	7	8	9	10
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

5.2 Colour changing

With this mode, the CLS LED PAR56-V3 will show you a stepping colour-changing program. You can set the speed of this program by a potentiometer or by music.

1	2	3	4	Mode
			*	Stand-alone operation

* = dip switch on = Speed control by music
dip switch off = Speed control by potentiometer

5.3. Colour changing with 1 Master and maximum 3 Slaves

With this mode you can create a lightshow without a DMX controller. 1 CLS LED PAR56-V3 must set as master and all other CLS LED PARs as slave units.

1	2	3	4	Mode
			*	Stand-alone master operation

* = dip switch on = Speed control by music
dip switch off = Speed control by potentiometer

And set all other CLS LED PAR56-V3 Black to slave operation:

1	2	3	4	Mode
				Stand-alone slave operation

<input checked="" type="checkbox"/>	= on
<input type="checkbox"/>	= off

All slaves must be set with a DMX address with the selection switches. Every unit needs 5 channels, so the first slave must be set on address 6, the second on 11 and the third on 16.

Connect the master with a DMX cable to the first slave, connect the first slave with a DMX cable to the second slave and connect the second slave with a DMX cable to the third slave.

Now you can choose how you want to change the colours. Fading or stepping.

5.4 Fading colour changes

For fading colour changes with 1 master and maximum 3 slaves set the selection switches from the master on the right position.

1	2	3	4	5	6	7	8	9	10	Function
										Fading colour changes

The selection-switches of the slaves must be "off".

5.5 Stepping colour changes

For stepping colour changes with 1 master and maximum 3 slaves, set the selection-switches from the master on the right position.

1	2	3	4	5	6	7	8	9	10	Function
										Stepping colour changes

The selection-switches of the slaves must be "off".

TECHNICAL SPECIFICATIONS

Power supply: Voltage: 100 ~ 240 VAC
 Power consumption: Max 18 VA
 Primary fuse: 2,5A Fast
 Secondary fuse: 100 mA F
 Weight: 1,2 kg
 Dimensions: 220 x 210 x 220 mm (hxwxd) (without bracket)
 Dimensions filter frame: 198 x 198 mm (hwx)
 Control in & output: XLR 3 pole male-female
 Control cable: 120 ohm DMX cable
 Control signal: DMX 512/1990
 Working temperature: 0 to +50 °C
 Housing: High temperature powder coated steel (item nr. 875550)
 Polished steel (item nr. 875552)

Driver Incl.	 1,2 kg	 10,000 h
DMX Channels		
		3/5

LIST OF SYMBOLS

	Protection class One, two or three		Driver Inclusive or exclusive
	Application area Indoor or outdoor		Weight In gram/kilogram
	Application area Floor, wall or ceiling		Pressure Maximum pressure on the fixture per kg/cm ²
	Swivel Fixture is horizontally rotatable, indicated in degrees		Lifespan Of the light source in hours
	Swivel Fixture is vertically rotatable, indicated in degrees		Curve Minimal bending curve in centimeters
	Multiple connection Possibilities on a fixture		LED pitch Pitch between the LEDs in millimeters
	Installation depth In centimeters		Cutting length Indicated by the cutting marks
	Mounting hole In centimeters		DMX channels DMX channels on a product

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