CLS RGB LED PAR 56 V2

C L S Creative Lighting Solutions

Technical Specifications

Input voltage:	AC 230 Volts
Power consumption:	18 VA/W max
Primary fuse	2,5 AF
Secondary fuse	100 mAF
Weight:	1.8 Kg
Shipping Weight:	2.1 Kg
Dimensions (H x W x D):	303(h) x 218(w) x 240(d) mm
Dimensions Filter Frame:	198(w) x 198(d) mm
Shipping Dimensions:	307(h) x 214(w) x 214(d) mm
Working Temperature:	0 to + 50°C
Humidity:	0-95%
Control input:	XLR 3 pole male
Control output:	XLR 3 pole female
Control cable:	120 ohm DMX cable
Control signal:	DMX 512/1990

INTRODUCTION:

Thank You for selecting the CLS RGB LED PAR 56 v2. with 512 dmx-channels,
The CLS RGB LED PAR 56 v2 is a universal DMX controlled luminairy that uses 151 5mm LEDs to create an even light-output.
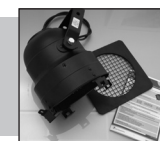
The CLS RGB LED PAR 56 v2 features:
• 230 AC input
• DMX input (3/5 channels)
• Auto-change mode
• Stand alone or DMX 512 controllable
• Dipswitches
• Manual setting
• Indoor use only

Included Items
The CLS RGB LED PAR 56 v2 is shipped in one package containing the following Items:
• RGB LED PAR 56 v2
• 1 User manual
• 1 Filterframe

Optional Accessories

• CLS Dmx cable 0.8 meters	(item nr 911200)	• CLS Dmx cable 10.0 meters	(item nr 911206)
• CLS Dmx cable 1.5 meters	(item nr 911201)	• CLS Dmx cable 15.0 meters	(item nr 911207)
• CLS Dmx cable 3.0 meters	(item nr 911203)	• CLS Dmx cable 20.0 meters	(item nr 911209)
• CLS Dmx cable 5.0 meters	(item nr 911205)		

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 RGB LED PAR 56 v2. 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, dismounting 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 v2 near to a heat source.
• Do not install the RGB LED PAR v2 in a corrosive, flammable or explosive area.
• Do not modify the RGB LED PAR v2, 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 injury 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.

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INSTALLATION
This section describes in general terms how to install the CLS RGB LED PAR 56 v2, and how to connect it to a DMX data link.

Installing the CLS RGB LED PAR 56 v2
The CLS RGB LED PAR 56 v2 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 RGB LED PAR 56 v2
You need to create a data link if you want to control one or more CLS RGB LED PAR 56 v2 via a DMX controller.
The CLS RGB LED PAR 56 v2 can be data-linked by using the XLR 3 input and output connectors at the backside 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 RGB LED PAR 56 v2 to a DMX extension cable. Connect the other end of the DMX cable to the XLR 3 male of the next CLS RGB LED PAR 56 v2. You can use CLS DMX cables for this purpose.
• Continue connecting CLS RGB LED PAR 56 v2 in this 'daisy chain' way.
• A maximum of 32 units can be connected in this way.

DMX 3-Channel Operation
With 3-channel DMX-operation you need 3 dmx-channels to control the CLS RGB LED PAR 56 v2.

First set the function-switches to DMX 3-channel operation:

1	2	3	4	Dipswitch
■		■		on
	■		■	off

Colour changing with 1 Master and maximum 3 Slaves
With this mode you can create a lightshow without a dmx-controller. 1CLS RGB LED PAR 56 v2 must set as master and all other CLS LED PAR's as slave units.

First set the function-switches from 1 CLS RGB LED PAR 56 v2 to master operation:

1	2	3	4	Dipswitch
		■	*	on
■			*	off

* = dipswitch on = Speed control by music
dipswitch off = Speed control by potentiometer

And set all other CLS RGB LED PAR 56 v2 to slave operation:

1	2	3	4	Dipswitch
■				on
		■		off

All slaves must be set with a dmx-address. Do this 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.

Fading Colour Changing
For fading colour changing 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	Dipswitch
	■	■	■							on
■				■	■	■	■	■	■	off

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

Stepping Colour Changing
For stepping colour changing 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	Dipswitch
	■	■								on
■			■	■	■	■	■	■	■	off

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

1	2	3	4	5	6	7	8	9	10	Dipswitch	Colour	Brightness
										on	RED	57%
										off		
										on	GREEN	57%
										off		
										on	BLUE	57%
										off		
										on	RED	71%
										off		
										on	GREEN	71%
										off		
										on	BLUE	71%
										off		
										on	RED	85%
										off		
										on	GREEN	85%
										off		
										on	BLUE	85%
										off		
										on	RED	100%
										off		
										on	GREEN	100%
										off		
										on	BLUE	100%
										off		

Example:

Magenta

1	2	3	4	5	6	7	8	9	10	
										on
										off

Yellow

1	2	3	4	5	6	7	8	9	10	
										on
										off

Colour changing
With this mode, the CLS RGB LED PAR 56 v2 will show you a program with colours. You can set the speed of this program by a potentiometer or by music.

Now you can give the CLS RGB LED PAR56 v2 a dmx-adress with the selection switches:

1	2	3	4	5	6	7	8	9	10	Dipswitch	DMX-adress
										on	1
										off	
										on	2
										off	
										on	4
										off	
										on	8
										off	
										on	16
										off	
										on	32
										off	
										on	64
										off	
										on	128
										off	
										on	256
										off	

Example:

DMX-adress 5

1	2	3	4	5	6	7	8	9	10	
										on
										off

DMX-adress 36

1	2	3	4	5	6	7	8	9	10	
										on
										off

The functions of the 3 channels are:

Channel	Function
1	Red
2	Green
3	Blue

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5 channel DMX operation
With 5-channel DMX-operation you need 5 dmx-channels to control the CLS RGB LED PAR 56 v2.

First set the function-switches to DMX 5-channel operation:

1	2	3	4	Dipswitch
■			*	on
		■	*	off

* = dipswitch on = Speed control by music
dipswitch off = Speed control by potentiometer

Now you can give the CLS RGB LED PAR 56 v2 a dmx-adress with the selection switches. See table on page 3.

Channel 1 value	
0 - 63	RGB control, CH2 = red, CH3 = green, CH4 = blue
64 - 127	7 color fade, CH5 = speed control
128 - 191	7 color change, CH5 = speed control
192 - 255	3 color 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, (music or potentiometer)

Stand-alone operation
Attention! Before setting a stand-alone mode, first unplug the extern dmx-cable to a dmx-controller. You don't need a dmx-controller for this modes!

Static Colours
You can set the CLS RGB LED PAR 56 v2 on a fixed colour. First set the function-switches to Static Colour Mode

1	2	3	4	Dipswitch
	■			on
■		■		off

Create now a colour you wishes with the selection-switches:

1	2	3	4	5	6	7	8	9	10	Dipswitch	Colour	Brightness
										on / off	RED	0%
										on / off	GREEN	0%
										on / off	BLUE	0%
■										on / off	RED	14%
		■								on / off	GREEN	14%
				■						on / off	BLUE	14%
	■									on / off	RED	28%
			■							on / off	GREEN	28%
					■					on / off	BLUE	28%
■	■									on / off	RED	42%
	■	■								on / off	GREEN	42%
					■					on / off	BLUE	42%

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