



# User Manual: Squared Vintage PAR Senior LED

# SQUARELED VINTAGE PAR SENIOR - LED VERSION



Manual

### **DMX512 control**

The wires must not come into contact with each other, otherwise the devices will not work at all, or will not work properly. Please note, the starting address depends upon which controller is being used.

Only use a DMX-cable and 3-pin or 5-pin XLR plugs and connectors in order to connect the controller with the device or one device with another.

If you are using controllers with this occupation, you can connect the DMX output of the controller directly with the DMX input of the first device in the DMX chain. If you wish to connect DMX controllers with other XLR outputs, you need to use adapter cables.

### **Building a serial DMX chain:**

Connect the DMX output of the first device in the DMX chain with the DMX input of the next device. Always connect one output with the input of the next device until all devices are connected.

Caution: At the last fixture, the DMX-cable has to be terminated. Plug the terminator with a 120Ω resistor between Signal (–) and Signal (+) in the DMX-output of the last fixture.

### **Interconnecting several devices (master/slave operation)**

Several devices may be interconnected (max. 30). Then all slave units can be synchronized and controlled with the master unit without the need for a DMX controller. The devices must be set to the corresponding operating modes.

Connect the DMX output of the master unit to the DMX input of the first slave unit. Then connect the DMX output of the first slave unit to the DMX input of the second slave unit, etc. until all units have been connected in a chain. Make sure the master unit is the first in the chain. Do not connect a DMX controller to the DMX input of the master unit.

### **Set the master device to one of the stand-alone modes.**

Set each slave device to any DMX address. The devices set in this manner can now be controlled by the master unit.

### **Connection to the mains**

1 Connect the device via the enclosed mains cable to a grounded mains socket. Thus, the unit is switched on.

2 To switch off the unit, disconnect the power plug.

3 Do not connect the unit to the mains voltage via a dimmer. For a more convenient operation, use a mains outlet which is switchable.

### **Power supply of further devices**

The Jack POWER OUT allows for power supply of further devices. To interconnect several devices, connect the Jack POWER OUT to the input POWER IN of the next unit until all units are connected. Matching power cables with Power-Con plugs are available as accessories. In this manner, up to 3 devices can be linked at 230/240 input voltage.

## OPERATION

After connecting the device to the mains it is ready for operation. The display indicates the last operating mode. The operating modes can be selected by means of the display and the control buttons. All settings remain stored even if the device is disconnected from the mains. The device can be operated in stand-alone mode via the control board or in DMX-controlled mode via any commercial DMX controller.

### Stand-alone mode

In the stand-alone mode, the device can be used without controller. Disconnect the device from the controller.

### Operating buttons

MENU Selects the operating mode or returns to the initial screen.

UP Selects the next menu item or increases values when modifying.

DOWN Selects the previous menu item or decreases values when modifying.

### Menu structure in Stand Alone Mode

Mode	Display	Function
ADDRESS & DMX	Address 001-512	Setting DMX starting address
	DMX-Model 1ch	Setting DMX channel mode
	DMX-Model 2ch	
	DMX-Model 4ch	
	DMX-Model 7ch	
MANUAL	Manual Halog 0 ~ 255	Manual setting of the halogen lamp
	Manual Red 0 ~ 255	Manual setting of the red LEDs
	Manual Green 0 ~ 255	Manual setting of the green LEDs
	Manual Blue 0 ~ 255	Manual setting of the blue LEDs
STATIC1	Macro 1 ~ Macro 35	Manual setting of the color presets
DIMMERCURVES Halogen	DimCurve Linear	Light intensity increases in-line with the DMX value
	DimCurve Square	Light intensity increases exponentially with the DMX value
	DimCurve InvSquare	Light intensity increases reverse exponentially with the DMX value
	DimCurve S-curve	Light intensity increases S-shaped with the DMX value
DIMMERCURVES LED	LEDCurve Linear	Light intensity increases in-line with the DMX value
	LEDCurve Square	Light intensity increases exponentially with the DMX value
	LEDCurve InvSquare	Light intensity increases reverse exponentially with the DMX value
	LEDCurve S-curve	Light intensity increases S-shaped with the DMX value

### Manual dimmer intensity

Press the MENU button to select the manual dimmer intensity (Manual).

You can select the dimmer intensity of the halogen lamp (Manual Halog) as well as of the LEDs (Manual Red/Green/Blue).

You can select the desired brightness values 000 -255 via the UP or DOWN button.

Please press the MENU button to exit the Mode.

### Color presets

Press the MENU button to select the color presets (Static1).

You can select the desired color (Macro 1 ~ Macro 35) via the UP or DOWN button.

Please press the MENU button to exit the Mode.

### Dimmer curves:

In order to set the dimmer curves for the halogen lamp, press the MENU button until the display shows DimCurve. You can select the desired dimmer curve (Linear, Square, InvSquare,S-curve) via the UP or DOWN buttons.

In order to set the dimmer curves for the LEDs, press the MENU button until the display shows LEDCurve. You can select the desired dimmer curve (Linear, Square, InvSquare,S-curve) via the UP or DOWN buttons.

### DMX operation

Setting the number of DMX channels and the DMX starting address

For operation with a controller with DMX512 protocol, the device is equipped with 7 control channels. However, it can also be switched to a mode with 1, 2 or 4 channels if different functions are required. To be able to operate the device with a DMX controller, the DMX starting address must be set. The starting address depends upon which DMX controller is being used. Please refer to the controller's documentation.

1, Press the MENU button so many times until DMX Address is indicated on the display.

2, Set the address via the UP and DOWN buttons and press the MENU button to return to the main menu.

3, Now press the MENU button so many times until DMX-Mode is indicated on the display.

4, The display then indicates 1CH (1 DMX channel), 2CH (2 DMX channels), 4CH (4 DMX channels) or 7CH (7 DMX channels). Use the buttons UP and DOWN to select the desired number of DMX channels. Please press the MENU button to return to the main menu.

5, The DMX address will be shown on the LCD when DMX signals are being received. If no control signals are available, the DMX address and "No DMX Signal" will appear alternately on the display. Note: Please make sure that you do not have any overlapping channels in order to control each device correctly and independently from any other fixture on the DMX chain. If several devices are addressed similarly, they will work synchronically.

### Functions in DMX mode

#### 1-Channel-Mode

Channel	Value	Function
DIMMER, Halogen lamp	000 – 255	Brightness 0-100%

## 2-Channel-Mode

Channel	Value	Function
1 DIMMER, Halogen lamp	000 – 255	Brightness 0-100%
2 COLOR PRESETS LEDs	000 – 004	No function
	005 – 011	Color 1
	012 – 018	Color 2
	019 – 025	Color 3
	026 – 032	Color 4
	033 – 039	Color 5
	040 – 046	Color 6
	047 – 053	Color 7
	054 – 060	Color 8
	061 – 067	Color 9
	068 – 074	Color 10
	075 – 081	Color 11
	082 – 088	Color 12
	089 – 095	Color 13
	096 – 102	Color 14
	103 – 109	Color 15
	110 – 116	Color 16
	117 – 123	Color 17
	124 – 130	Color 18
	131 – 137	Color 19
	138 – 144	Color 20
	145 – 151	Color 21
	152 – 158	Color 22
	159 – 165	Color 23
	166 – 172	Color 24
	173 – 179	Color 25
	180 – 186	Color 26
	187 – 193	Color 27
	194 – 200	Color 28
	201 – 207	Color 29
	208 – 214	Color 30
	215 – 221	Color 31
	222 – 227	Color 32
	228 – 234	Color 33
	235 – 241	Color 34
242 – 255	Color 35	

#### 4-Channel-Mode

Channel	Value	Function
1 DIMMER, Halogen lamp	000 – 255	Brightness 0-100%
2 DIMMER, RED LEDs	000 – 255	Brightness 0-100%
3 DIMMER, Green LEDs	000 – 255	Brightness 0-100%
4 DIMMER, Blue LEDs	000 – 255	Brightness 0-100%

#### 7-Channel-Mode

Channel	Value	Function
1 DIMMER, Halogen lamp	000 – 255	Brightness 0-100%
2 DIMMER, RED LEDs	000 – 255	Brightness 0-100%
3 DIMMER, Green LEDs	000 – 255	Brightness 0-100%
4 DIMMER, Blue LEDs	000 – 255	Brightness 0-100%
5 Strobe LED strips	000 – 003	No function
	004 – 255	Increasing speed
6 DIMMER, ALL LEDs	000 – 255	Brightness 0-100%
7 COLOR PRESETS LEDs	000 – 004	No function
	005 – 011	Color 1
	012 – 018	Color 2
	019 – 025	Color 3
	026 – 032	Color 4
	033 – 039	Color 5
	040 – 046	Color 6
	047 – 053	Color 7
	054 – 060	Color 8
	061 – 067	Color 9
	068 – 074	Color 10
	075 – 081	Color 11
	082 – 088	Color 12
	089 – 095	Color 13
	096 – 102	Color 14
	103 – 109	Color 15
	110 – 116	Color 16
	117 – 123	Color 17
	124 – 130	Color 18
	131 – 137	Color 19
	138 – 144	Color 20
	145 – 151	Color 21
152 – 158	Color 22	

7 COLOR PRESETS LEDs	159 – 165	Color 23
	166 – 172	Color 24
	173 – 179	Color 25
	180 – 186	Color 26
	187 – 193	Color 27
	194 – 200	Color 28
	201 – 207	Color 29
	208 – 214	Color 30
	215 – 221	Color 31
	222 – 227	Color 32
	228 – 234	Color 33
	235 – 241	Color 34
	242 – 255	Color 35

#### TECHNICAL SPECIFICATIONS:

Power supply: 230 V AC, 50 Hz ~

Power consumption: 780 W Max

Protection class: I

DMX control channels: 1/2/4/7

DMX512 connection: 5-pin and 3-pin XLR

Flash-rate: 20 Hz

Lamp number: 1

Lamp type: HPL 230V/750W GX9.5 or HPL 230V/575W GX9.5

LED number: 27

LED type: 0.5 W RGB 5050 SMD

Dimensions (LxWxH): 365 x 705 x 640 mm

Weight: 11 kg

Vintage PAT-504

Power supply: 230 V AC, 50 Hz ~

Power consumption: 530 W Max

Protection class: I

DMX control channels: 1/2/4/7

DMX512 connection: 5-pin and 3-pin XLR

Flash-rate: 20 Hz

Lamp number: 1

Lamp type: 230V/500W GY9.5 or 230V/300W GY9.5

LED number: 18

LED type: 0.5 W RGB 5050 SMD

Dimensions (LxWxH): 265 x 540 x 460 mm

Weight: 9 kg





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