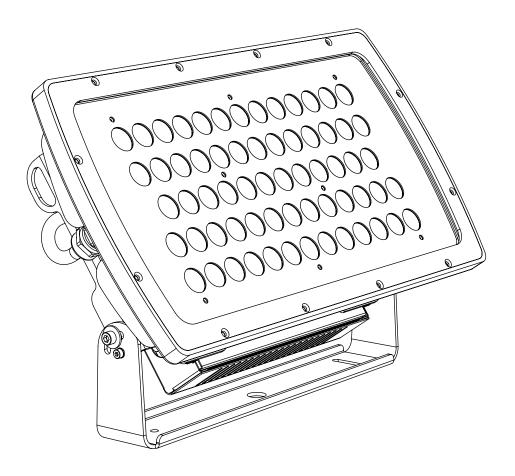
Coral



Manuale di istruzioni Instructions manual



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1.0 Introduction

1.1 Safety information

Warning!

This unit is suitable for professional use only, not for domestic use.

1.1.1 Protecting against electric shock

- Disconnect the unit from mains supply before servicing it or performing any other action.
- Always ground/earth the unit electrically.
- Before connecting the unit to power supplies, verify that operating voltage and frequency are compatible.
- Do not handle the unit with wet hands or in the presence of water.
- Check regularly that the power supply cable is not damaged or crushed.
- Apply to a qualified technician for any regular maintenance action not described in this manual.

1.1.2 Installation

- Fix the unit with screws, hooks or any other support able to bear the weight of the unit itself.
- The unit installation actions must be performed by a qualified staff.

1.1.3 Protection against burns and fire

• V Suitable to be installed onto normally inflammable surfaces.

• The unit is not to be installed in places where the ambient temperature exceeds 50° (122°F).

1.1.4 Weather protection

The unit is classified as device with an IP66 weather protection rate.

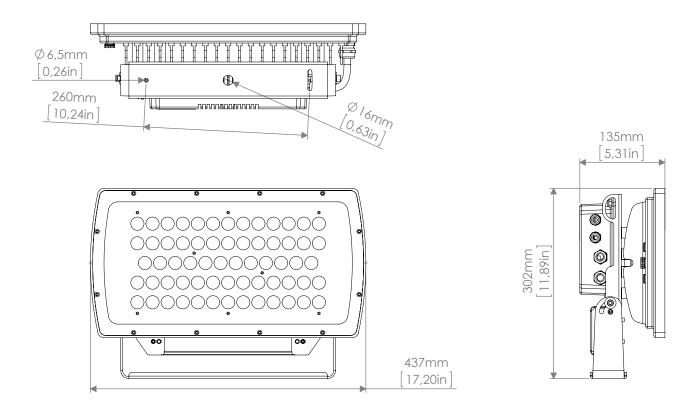
1.2 Compliance





- Product in compliance with EN60598-1 EN60598-2-17.
- Product in compliance with 2002/95/CE (RoHS).

2.0 Size



3.0 Packaging and transport

3.1 Packaging

Check carefully the content of the box and, in case of damage, contact your forwarder immediately. The following items are included in the box of this unit:

n° 1 **Coral** unit

n° 1 owner's manual

n° 2 connection kit

Warning!

- Griven S.r.I. liability will cease upon consignment of goods to the forwarder: claims for damage due to transport must be addressed directly to the forwarder.
- Griven S.r.l. will accept claims for broken or missing goods only within seven days of receipt of the goods.
- Returns of equipment will not be accepted without prior authorization granted by Griven S.r.l. and if not duly accompanied by relevant shipping documents.

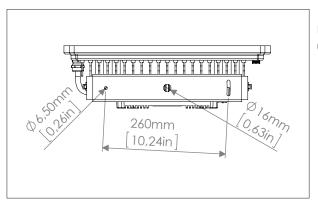
3.2 Transport

The carton box has not been designed to be used more than once, therefore, it is recommended to use one of our flight cases to transport the unit.

4.0 Installation

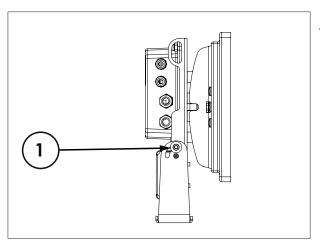
4.1 Fixing

The unit can be used both rested on floor and fixed onto a structure. The unit can operate in any position.

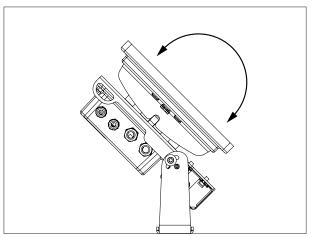


Use the holes \varnothing 16 (0.6") or \varnothing 6.5 (1/4") in the bracket to fix the unit.

4.2 Adjusting light beam direction



1. Untighten the lateral screw "1".



2. Rotate the bodies of the unit towards desired direction and tighten the screw "1".

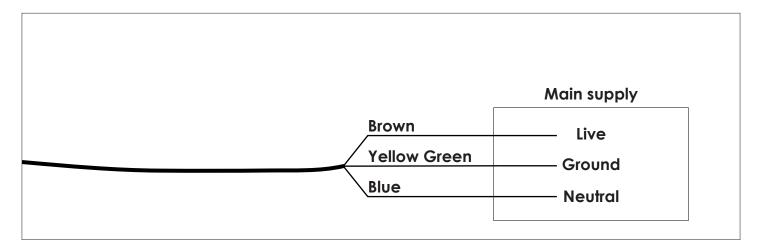
4.3 Connection to mains power

The unit can operate with voltage from 100-277Vac and with frequency of 50 and 60Hz.

Warning!

- Before connecting the unit, verify that power supplies features are compatible with the unit features.
- The unit must never be installed if not grounded electrically.
- It is suggested to use a magnetothermic switch along the power supply line, as prescribed by in force rules.
- The unit must not be powered up through a dimmer power device.
- Wiring and connection actions are to be performed by a qualified staff.

For the connection use main cable in the side of the rear boxl of the fixture and connect as shown below.



Warning!

Follow the instructions provided along with the connection kit to perform the connections.

4.4 Connection to DMX signal

The DMX signal is to be connected by using a shielded cable designed for devices RS-485.

The signal cable must be connected according to the following table:

GND = Shield

DATA - = Black

DATA + = Red

Warning!

All data wires must be isolated one from another and from the shield. The GND of the DMX signal is not to be connected to the electric ground of the unit. Insert a terminal plug with a 120 Ω resistor connected to DATA- and DATA+ in the last unit.

EMERALD is fitted with butt connectors and heat shrink tube which allow to perform **IP67** connections. To make the connection follow these instructions.

Warning!

Follow the instructions provided along with the connection kit to perform the connections.

5.0 Use of the unit

5.1 Setting operating mode

By the control panel it is possible to select one of the following operating modes:

using DMX512 signal control mode

Each fixture is controlled from DMX512 signal control.

(see chapter 8.0 DMX function)

MASTER-SLAVE or AUTOMATIC mode (only RGBW and DW)

The projector operates independently, without DMX512 signal control.

(see chapter MASTER/SLAVE and AUTOMATIC function)

• using FIXED COLOURS mode (only RGBW and DW)

The projector operates independently, without DMX512 signal control.

(see chapter FIXED COLOURS function)

The unit NORMALLY works in DMX mode and, on turning on, the display will read the number of DMX address (e.g. 012).

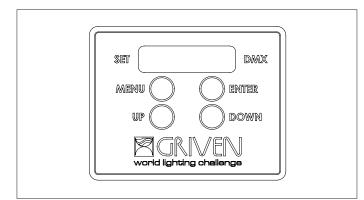
If on turning on the display will read "AUT", it will mean that the unit is working in AUTOMATIC mode.

Disable this function to go back to the DMX mode.

If on turning on, the display will read "COL", it will mean that the unit is working in FIXED COLOURS mode.

Disable this function to go back to the DMX mode.

5.2 Unit control panel



The display of the unit is programmed to turn off automatically after 10 seconds of non working. To activate it just press any key.

In the presence of the DMX signal the red led will steadily be on while in the absence of DMX signal the led will flash. The SET led is on during:

- DMX address is setting
- menu setting

5.2.1 Reading the display and using controls

MENU button:

By pushing the "MENU" button the display will show the main menu or you can exit from function and go back to main menu.

By pushing the "MENU" button when is show the DMX address, you will enter in the main menu.

Address setting
 ADR

Channels number setting
 MASTER/SLAVE and AUTOMATIC mode
 FIXED COLOURS mode
 Dimmer without DMX
 CHN (only RGBW and DW)
 AUT (only RGBW and DW)
 COL (only RGBW and DW)
 DIM (only monochrome)

LED temperature LETDriver temperature DRT

Body temperature
 Heating Power
 BOT (only Polar version)
 HEP (only Polar version)

Default settingsSoftware releaseDEFREL

UP and **DOWN** buttons:

By pushing the "UP" and "DOWN" buttons, values of the function which is shown in the display can be changed.

ENTER button:

Keep the "ENTER" button pushed, until the display and the SET led flash, in order to memorize the function which is shown on the display.

6.0 DMX function mode

6.1 Setting DMX channels

The number of DMX channels used by the unit to operate will depend from the selected operating mode.

Each RGBW unit will use 4, 5 or 6 DMX channels.

Each DW unit will use 2 or 3 DMX channels.

Each monochrome unit will use 1 DMX channel.

Follow this description to modify the DMX channels setting: press the "MENU" button, select "CHN" and press "ENTER" button to activate the function. Then select the desired value (1C/../12C) through the "UP" and "DOWN" keys. Press "ENTER" to confirm.

6.2 Setting DMX address

Follow this description to modify the address: press once the "MENU" button, select "ADR" and press "ENTER" button to activate the function. Then select the desired value (between 1 and 512) through the "UP" and "DOWN" keys. Press "ENTER" to confirm.

6.3 DMX functions RGBW

Warning! In absence of DMX signal the led will remain OFF.

6.3.1 DMX functions with DMX MODE = 4 channels

Channel	Function	Value	Description	
1	Red	0-255	Proportional control 0-100% of the Red color	
2	Green	0-255	Proportional control 0-100% of the Green color	
3	Blue	0-255	Proportional control 0-100% of the Blue color	
4	White	0-255	Proportional control 0-100% of the White color	

6.3.2 DMX functions with DMX MODE = 5 channels

Channel	Function	Value	Description	
1	Red	0-255	Proportional control 0-100% of the Red color	
2	Green	0-255	Proportional control 0-100% of the Green color	
3	Blue	0-255	Proportional control 0-100% of the Blue color	
4	White	0-255	Proportional control 0-100% of the White color	
		0-15	Luminous output intensity 100%	
_	Dimmer	16-150	Proportional control of the luminous output intensity 100-0%	
5	Strobe	151-160	Luminous output intensity 0%	
		161-255	Proportional control of the strobe effect 0-100% (255=max)	

6.3.3 DMX functions with DMX MODE = 6 channels

Channel	Function	Value	Description	
1	Red	0-255	Proportional control 0-100% of the Red color	
2	Green	0-255	Proportional control 0-100% of the Green color	
3	Blue	0-255	Proportional control 0-100% of the Blue color	
4	White	0-255	Proportional control 0-100% of the White color	
		0-5	Luminous output intensity 0%	
5	Dimmer	6-250	Proportional control of the luminous output intensity 0-100%	
		251-255	Luminous output intensity 100%	
		0-15	No strobe	
6	Strobe	6-250	Proportional control of the strobe effect 0-100%	
		251-255	Strobe effect 100%	

6.4 DMX functions DW

Warning! In absence of DMX signal the led will remain ON.

6.4.1 DMX functions with DMX MODE = 2 channels

Channel	Function	Value	Description	
		0-3	Warm white 100% - Cold white 0%	
		4-122	Warm white 100% - Cold white from 0% to 100%	
1 1 1	Dynamic white	123-132	Warm white 100% - Cold white 100%	
		133-251	Warm white 100% to 0% - Cold white 00%	
		252-255	Warm white 0% - Cold white 100%%	
		0-15	Luminous output intensity 100%	
2	Dimmer Strobe	16-150	Proportional control of the luminous output intensity 100-0%	
Z		151-160	Luminous output intensity 0%	
		161-255	Proportional control of the strobe effect 0-100% (255=max)	

6.4.2 DMX functions with DMX MODE = 3 channels

Channel	Function	Value	Description	
1	Warm white	0-255	Proportional control 0¬-100% of the warm white	
2	Cold white	0-255	Proportional control 0¬-100% of the cold white	
		0-15	Luminous output intensity 100%	
3	Dimmer	16-150	Proportional control of the luminous output intensity 100-0%	
Strobo		151-160	Luminous output intensity 0%	
		161-255	Proportional control of the strobe effect 0-100% (255=max)	

6.5 DMX functions monochrome

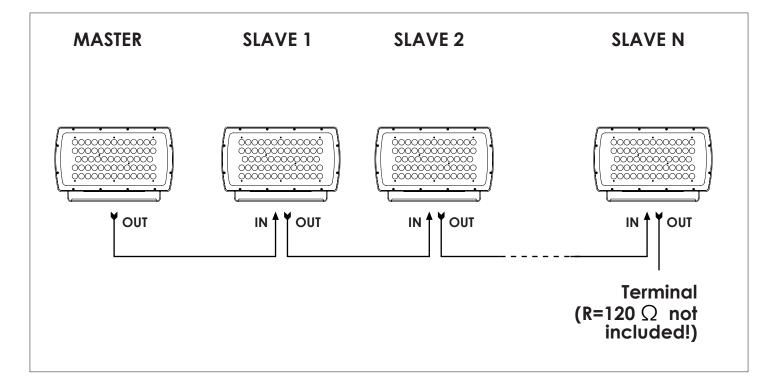
Attention! In absence of DMX signal the led will remain ON.

Channel	Function	Value	Description	
Dimmer	0-15	Luminous output intensity 100%		
	16-150	Proportional control of the luminous output intensity 100-0%		
	Strobe	151-160	Luminous output intensity 0%	
		161-255	Proportional control of the strobe effect 0-100% (255=max)	

7.0 Master-Slave and Automatic function (only RGBW and DW)

Coral can operate without DMX signal (in AUTOMATIC mode) and can be set so that a single MASTER unit will command a series of SLAVE units. This function is particularly useful when more units are desired to execute the same programme in synchrony.

The following picture shows an example of a Master-Slave layout.



7.1 AUTOMATIC configuration

RGBW - The AUTOMATIC mode ONLY works when set to operate with 5 DMX channels.

DW - The AUTOMATIC mode ONLY works when set to operate with 3 DMX channels.

Follow this description to modify the DMX channels setting: press the "MENU" button, select "CHN" and press "ENTER" button to activate the function. Then select 5C through the "UP" and "DOWN" keys. Press "ENTER" to confirm

To activate the AUTOMATIC mode, press the "MENU" button up to visualize "ADR". Through the "UP" and "DOWN" keys select "AUT". Press "ENTER" to confirm.

Through the "UP" and "DOWN" keys select "ACT". Through the "UP" and "DOWN" keys select "ON" or "OFF" to activate or deactivate the AUTOMATIC mode. Press "ENTER" to confirm.

It is possible to adjust the length of time of the scenes of the programmes.

Through the "UP" and "DOWN" keys select "TI" and press "ENTER" to confirm. Through the "UP" and "DOWN" keys select the length of time desired (5-10-20-40 seconds) and press "ENTER" to confirm.

Now, through the "UP" and "DOWN" keys, it is possible to scroll the 8 preset programmes (P1-P8). Once positioned onto the desired programme, press "ENTER" to confirm. By the keys "UP" and "DOWN" select "ON" or "OFF". It is possible to activate or disactivate the programme. Press ENTER to confirm.

Now the unit is in AUTOMATIC mode and the diplay will keep reading "AUT".

To exit from the AUTOMATIC mode, press the "MENU" button, select "ACT" and press "ENTER" to confirm. Select "OFF" to deactivate the AUTOMATIC mode. Press ENTER to confirm.

Warning!

It is possible to select more programmes which will be executed in sequence.

If MASTER-SLAVE mode is being used, the fixture cannot be controlled by a DMX control device and no other

DMX control device must be present along the line!!

The following table shows the light output colour effect according to the programme (only RGBW).

Program N°	Effect
1	Red - Magenta - Yellow
2	Red - Magenta - Yellow - White
3	Green - Cyan - Yellow
4	Green - Cyan - Yellow - White
5	Blue - Cyan - Magenta
6	Blue - Cyan - Magenta - White
7	Green - Cyan - Blue - Magenta - Red - Yellow
8	Green - Cyan - Blue - Magenta - Red - Yellow - White

7.2 MASTER configuration

To set up the unit as MASTER the same instructions for the set up as AUTOMATICR must be followed (see paragraph 9.1 AUTOMATIC configuration).

7.3 SLAVE configuration

To set up the unit as SLAVE set the 5 channels (RGBW) or 3 channels (DW) DMX mode with address 001.

8.0 FIXED COLOURS mode (only RGBW and DW)

In the FIXED COLOURS mode, it is possible to manually turn on the LEDs, without the use of a DMX. In this mode, the projector also behaves as a master and can control a number of projectors SLAVE.

8.1 RGBW MASTER configuration

The FIXED COLOURS mode ONLY works when 5 channels DMX mode is set.

To activate the FIXED COLOUR mode, press the "MENU" button up to visualize "ADR". Through the "UP" and "DOWN" keys select "COL". Press "ENTER" to confirm.

Through the "UP" and "DOWN" keys select "ACT". Through the "UP" and "DOWN" keys select "ON" or "OFF" to activate or deactivate the FIXED COLOUR mode. Press "ENTER" to confirm.

Now, through the "UP" and "DOWN" keys, it is possible scroll the colours.

1. Red RFD GRE 2. Green 3. Blue BLU 4. White **UHT**

Once positioned onto the desired colour, press "ENTER" to confirm. By the keys "UP" and "DOWN" select "ON" or "OFF". It is possible to activate or disactivate the colours. Press ENTER to confirm.

Now the unit is in FIXED COLOURS mode and the diplay will keep reading "COL".

To exit from the FIXED COLOURS mode, press the "MENU" button, select "ACT" and press "ENTER" to confirm.

Select "OFF" to deactivate the FIXED COLOURS mode. Press ENTER to confirm.

8.2 Dynamic white MASTER configuration

The FIXED COLOURS mode ONLY works when 3 channels DMX mode is set.

To activate the FIXED COLOUR mode, press the "MENU" button up to visualize "ADR". Through the "UP" and "DOWN" keys select "COL". Press "ENTER" to confirm.

Through the "UP" and "DOWN" keys select "ACT". Through the "UP" and "DOWN" keys select "ON" or "OFF" to activate or deactivate the FIXED COLOUR mode. Press "ENTER" to confirm.

Now, through the "UP" and "DOWN" keys, it is possible scroll the colours.

1. Cold white CW 2. Warm white WW

Once positioned onto the desired colour, press "ENTER" to confirm. By the keys "UP" and "DOWN" select "ON" or "OFF". It is possible to activate or disactivate the colours. Press ENTER to confirm.

Now the unit is in FIXED COLOURS mode and the diplay will keep reading "COL".

To exit from the FIXED COLOURS mode, press the "MENU" button, select "ACT" and press "ENTER" to confirm. Select "OFF" to deactivate the FIXED COLOURS mode. Press ENTER to confirm.

8.3 SLAVE configuration

To set up the unit as SLAVE set the 5 channels (RGBW) or 3 channels (DW) DMX mode with address 001.

9.0 Dimmer (Monochromatic)

This function controls the LED brightness.

Press the "MENU" button up to visualize "ADR". Through the "UP" and "DOWN" keys select "DIM". Press "ENTER" to confirm. The DMX value of the dimmer function will be thus displayed. Press the buttons "UP" or "DOWN" until the required value appears, then press "ENTER".

10.0 Led temperature

With this operation the working temperature of Leds can be checked.

Press the "MENU" button up to visualize "ADR". Through the "UP" and "DOWN" keys select "TEM". Press "ENTER" to confirm.

The value of the operating temperature of LED, which should never be higher than 75°C, will appear. A higher value indicates a malfunction of the fixture.

11.0 Temperature of led drivers

With this operation the working temperature of Led Drivers can be checked.

Press the "MENU" button up to visualize "DRT". Through the "UP" and "DOWN" keys select "DRT". Press "ENTER" to confirm.

The value of the operating temperature of led drivers, which should never be higher than 70°C, will appear. A higher value indicates a malfunction of the fixture.

12.0 Body Temperature (only Polar versions)

With this operation the working temperature of Body can be checked.

Press the "MENU" button up to visualize "DRT". Through the "UP" and "DOWN" keys select "BOT". Press "ENTER" to confirm.

13.0 Heating Power (only Polar versions)

With this operation the percentage of power that is supplied of the heater can be checked.

Press the "MENU" button up to visualize "DRT". Through the "UP" and "DOWN" keys select "HEP". Press "ENTER" to confirm.

14.0 Default setting

With this operation ALL the parameters can be set to the default values.

Press the "MENU" button up to visualize "ADR". Through the "UP" and "DOWN" keys select "DEF". Press "ENTER" to confirm. Select "RES" or "CAN" to reset value or cancel operation.

Following parameters will be set to default values: dmx address, number of dmx channels, automatic mode, colour mode.

15.0 RDM functions

When operating in DMX mode, the projector can accept the following RDM commands:

- discovery
 - Upon request of the RDM controller, the projector adverts its own presence (the RDM controller will display the projector between a list).
- DMX address reading and setting.
- Channels number reading and setting.
- On / Off identification

This command is used to identify the projector you want to get access to (the identification happens by switching on at full intensity all the LEDs).

- Manufacturer
 - The name of the manufacturer (Griven) is displayed.
- Model description
 - The projector model is displayed.
- Software version description
 - The version of the firmware in use on the projector is displayed.
- Temperature
 - The LEDs operating temperature value is displayed.

16.0 Thermal protection

An internal temperature sensor prevents the unit from overheating. The temperature sensor will limit the current to leds, protecting their integrity, if the ambient temperature exceeds the one allowed.

17.0 No frost glass

The POLAR Edition of the projector is fitted with a thermal glass which is particularly useful for outdoor applications. In fact, by warming up the glass melts ice and snow which might interfere with the projection.

When the projector is on, if required by the weather conditions, the glass is automatically warmed up.

If the projection is to be started at a definite time, take care to defrost the glass in advance so that the leds can be lit at the time required.

With very cold temperatures (below -20° C), we recommend you to let the projector always powered and switch on the LEDs when needed.

18.0 Maintenance

Attention!

Always remove mains power prior to opening up the fixture.

To ensure maximum functionality and light output it is recommended to follow these instructions:

18.1 Cleaning the unit

The unit must be cleaned regularly. Cleaning regularity will depend especially on the environment where the unit will operate: deposits of dust, smokes or other wastes will reduce the light output performances.

- Clean regularly the glass of the unit.
- Be careful when cleaning the components. Operate in a clean, properly illuminated environment.
- Do not use solvents which could damage painted surfaces.
- Remove left particles by a cotton towel dampened with a glass-cleaning liquid or distilled water.
- Remove smoke and other wastes by a cotton towel dampened with isopropyl alcohol.
- Dry out by a clean, soft, non-scratching towel or by compressed air.

18.2 Regular checks

- Check electrical connections, especially the ground wiring and the power supply cable.
- Check that the unit is not damaged mechanically. Replace those components which have got deteriorated.

19.0 Spare parts

All components of the unit are available as spare parts at **Griven** dealers.

Exploded views, wiring diagrams, electronic layouts and advertising brochures are available on request. To make the job of assistance centres easier, specify serial number and model of the unit which spare parts are requested for.

20.0 Disposal

The European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE), requires that old lighting fixtures must not be disposed of the normal unsorted municipal waste stream. Old appliances must be collected separately in order to optimise the recovery and recycling of the materials they contain and reduce the impact on human health and the environment.



The crossed out "wheeled bin" symbol on the product reminds you of your obligation, that when you dispose of the appliance it the must be separately collected.

Consumer should contact their local authority or retailer for information concerning the correct disposal of their old appliance.

21.0 Troubleshooting

Inconvenience	Possibile Cause	Action	
	1	Check connections and wires. Rectify inefficient connections. Repair or replace damaged wires.	
		Insert a terminal plug in the output jack of the last unit of the connection.	
	Incorrect address assignment to the units.	Check the addresses of the units and the protocol settings.	
		Short-circuit units singularly, one by one, since regular working is restored.	
	It has been set up an oper- ating mode different from the DMX mode used.	Check the operating mode set up.	
The unit is set to Master or Master dip-switch to ON, it is Automatic, but is not runnecessary to also select a program number.			
The unit is set to Slave, but does not		Check that amongst the interconnected fixtures, only one has been set to Master.	
respond properly to the Master.	Conflict in signals.	Ensure that there is no incoming DMX signal.	

22.0 Technical specifications

Mechanical features
Height
Width
Depth
Weight
Thermal features
Maximum ambient temperature
Minimum ambient temperature40°C (-104 °F)
Maximum surface temperature
Electrical features
Voltage
Nominal current
Maximum power
Thermal protection Electronic
Light output source
Type of light output source
Optics
Optical system Lenses
Control
Protocol
RGBW control channel
Dynamic white control channel
Monochromatic control channel
Construction
Unit bodylron/Aluminium
Treatment
Weather protection rate

1	



Via Bulgaria, 16 - 46042 CASTEL GOFFREDO (MN) - Italy Telefono 0376/779483 - Fax 0376/779682 - 0376/779552 http://www.griven.com/ e-mail griven@griven.com http://www.griven.it/ e-mail griven@griven.it

User's manual rel. 1.20