Solar 27Q

27x10W high brightness indoor/outdoor compact wash light

USER MANUAL

English version

Thank you for choosing PROLIGHTS

Please note that every PROLIGHTS product has been designed in Italy to meet quality and performance requirements for professionals and designed and manufactured for the use and application as shown in this document.

Any other use, if not expressly indicated, could compromise the good condition/operation of the product and/or be a source of danger.
This product is meant for professional use. Therefore, commercial use of this equipment is subject to the respectively applicable national accident prevention rules and regulations.

Features, specifications and appearance are subject to change without notice. Music & Lights S.r.l. and all affiliated companies disclaim liability for any injury, damage, direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information contained in this document.

Product user manual can be downloaded from the website www.prolights.it , or can be inquired to the official PROLIGHTS distributors of your territory (*https://www.prolights.it/sales_network.html*).

Scanning the below **QR Code**, you will access the download area of the product page, where you can find a broad set of always updated technical documentation: specifications, user manual, technical drawings, photometrics, personalities, fixture firmware updates.

**Visit the download area
of the product page**

INDEX

SAFETY INFORMATION

WARNING!
- See https://www.prolights.it/product/SOLAR27Q#download for installation instructions.
- Please read carefully the instruction reported in this section before installing, powering, operating or servicing the product and observe the indications also for its future handling.

This unit is not for household use, only professional applications.

Connection to mains supply
- The Connection to the mains supply must be carried out by a qualified electrical installer.
- Use only AC supplies 100-240V 50-60 Hz, the fixture must be electrically connected to ground (earth).
- Select the cable cross section in according with the maximum current draw of the product and the possible number of products connected at the same power line.
- The AC mains power distribution circuit must be equipped with magnetic+residual current circuit breaker protection.
- Do not connect it to a dimmer system; doing so may damage the product.

Protection and Warning against electrical shock
- Do not remove any cover from the product, always disconnect the product from AC power before servicing.
- Ensure that the fixture is electrically connected to ground (earth). And use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault (earth-fault) protection.
- Before using the fixture, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.
- Isolate the fixture from power immediately if the power plug or any seal, cover, cable, or other components are damaged, defective, deformed or showing signs of overheating.
- Do not reapply power until repairs have been completed.
- Refer any service operation not described in this manual to PROLIGHTS Service team or an authorized PROLIGHTS service center.

Installation
- Make sure that all visible parts of the product are in good visible condition before its use or installation.
- Make sure the point of anchorage is stable before positioning the projector.
- When suspending the fixture above ground level, secure it against failure of primary attachments by attaching a safety cable that is approved as a safety attachment for the weight of the fixture to the attachment point on the main frame of the product. In case the safety cable, enter in action, it needs to be replaced with a new one.
- Install the product only in well ventilated places.
- For non temporary installations, ensure that the fixture is securely fastened to a load-bearing surface with suitable corrosionresistant hardware.
- For a temporary installation with clamps, ensure that the quarter-turn fastener and/or screws are turned fully, and secured with a suitable safety cable.

Minimum distance of illuminated objects
- The projector needs to be positioned so that the objects hit by the beam of light are at least 3 meters (9.84 ft) from the lens of the projector.

T$_a$ 40°C **Max operating ambient temperature (Ta)**
- Do not operate the fixture if the ambient temperature (Ta) exceeds 40 °C (104 °F).

T$_a$ -20°C **Minimum operating ambient temperature (Ta)**
- Do not operate the fixture if the ambient temperature (Ta) is below -20 °C (-4 °F).

Protection from burns and fire
- The exterior of the fixture becomes hot during use. Avoid contact by persons and materials.
- Ensure that there is free and unobstructed airflow around the fixture.
- Keep flammable materials well away from the fixture.
- Do not expose the front glass to sunlight or any other strong light source from any angle. Lenses can focus the sun's rays inside the fixture, creating a potential fire hazard.
- Do not attempt to bypass thermostatic switches or fuses.

IP66 **Permanent Outdoor use**
- This product is rated with an IP (Ingress protection) for permanent outdoor use when used and serviced according to the instruction contained in this document.
- Never use the fixture in places subject to vibrations or bumps.
- Make certain that no inflammable liquids, water or metal objects enter the fixture.
- Excessive dust, smoke fluid, and particle build up degrades performance, causes overheating and will damage the fixture.
- Damages caused by inadequate cleaning or maintenance are not covered by the product warranty.

T$_c$ 65°C **Temperature of the external surface**
- The surface of the fixture can reach up to 65 °C (149 °F) during operation. Avoid contact with people and materials.

Maintenance
- Warning! Disconnect the fixture from AC mains power and allow to cool for at least 10 minutes before handling.
- Only technicians who are authorized by PROLIGHTS or Authorised service partners are permitted to open the fixture.
- Users may carry out external cleaning, following the warnings and instructions provided, but any service operation not described in this manual must be referred to a qualified service technician.
- Important! Excessive dust, smoke fluid, and particle build up degrades performance, causes overheating and will damage the fixture. Damages caused by inadequate cleaning or maintenance is not covered by the product warranty.

Radio receiver
This product contains a radio receiver and/or transmitter:
- Maximum output power: 17 dBm.
- Frequency band: 2.4 GHz.

Photobiological safety
- This device emits potentially dangerous optical radiation and is identified in the category of Risk Group 1 according to EN 62471.

Do not stare at the operating light source
- Do not look directly at the LED source during operation. It can be harmful to the eyes and skin.
- During Installation, operation and maintenance, be prepared for the fixture to light and move suddenly when connected to power.

Disposal
- This product is supplied in compliance with European Directive 2012/19/EU – Waste Electrical and Electronic Equipment
- (WEEE). To preserve the environment please dispose/ recycle this product at the end of its life according to the local regulation.

The products to which this manual refers comply with:
- 2014/35/EU - Safety of electrical equipment supplied at low voltage (LVD);
- 2014/30/EU - Electromagnetic Compatibility (EMC);
- 2011/65/EU - Restriction of the use of certain hazardous substances (RoHS);
- 2014/53/EU - Radio Equipment Directive (RED).

Other approvals

1 - PACKAGING

PACKAGE CONTENT
- 1x SOLAR27Q;
- 1x SCHUKO - IP connection adapter;
- 1x 5p XLR - IP connection male adapter;
- 1x 5p XLR - IP connection female adapter;
- User Manual.

OPTIONAL ACCESSORIES
- OS25: Quick-Lock omega bracket, M10 hole;
- RSR0630B: Steel security cable for hanging bodies, inox steel shackle, L=60 cm, black;
- C6002B: Slim aluminum clamp, 200kg loading, 48-51mm tubes, M10 bolt, Black;
- LRLUNA: Single Universe DMX transceiver with Bluetooth;
- OS25D13: Quick-Lock omega bracket, M12 hole;
- S27QFILTER40: 40° symmetric light diffusion filter for SOLAR27Q;
- S27QFILTER60: 60° symmetric light diffusion filter for SOLAR27Q;
- S27QFILTER1060: 10x60° asymmetric light diffusion filter for SOLAR27Q;
- S27QFILTER3060: 30x60° asymmetric light diffusion filter for SOLAR27Q;
- S27QLENS10: 10° lens for SOLAR27, ARCPOD27, SOLAR48, ARCPOD48, ARCPOD15 and ARC-POD96 series;
- S27QLENS15: 15° lens for SOLAR27, ARCPOD27, SOLAR48, ARCPOD48, ARCPOD15 and ARC-POD96 series;
- S27QLENS25: 25° lens for SOLAR27, ARCPOD27, SOLAR48, ARCPOD48, ARCPOD15 and ARC-POD96 series;
- S27QLENS45: 45° lens for SOLAR27, ARCPOD27, SOLAR48, ARCPOD48, ARCPOD15 and ARC-POD96 series;
- SUNBLASTFLR: Hanging bracket for SUNBLAST floor positioning, quick-look;
- S27QBD: Black barn door 4 directional flaps to adjust the light beam, SOLAR27Q,ARCPOD27Q;
- FCLS27Q: Flightcase for 6 pcs of SOLAR27Q;
- UPBOX1UP5: Firmware uploader kit, USB IN, 5pin XLR DMX OUT, USB OUT;
- UPBOXPRO: Firmware uploader kit, USB IN, 5-pin XLR DMX OUT connector.

2 - TECHNICAL DRAWING

269 mm [10.6 in]

454 mm [17.9 in]

83 mm [3.3 in]

153 mm [6.0 in]

232 mm [9.1 in]
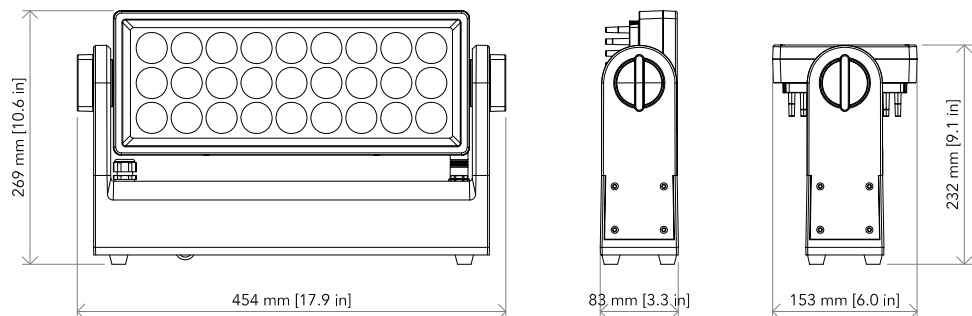
Weight: 9 kg - 4.08 lbs

Fig. 01

3 - INSTALLATION

MOUNTING

Check that the supporting structure can safely bear the weight of all installed fixtures, clamps, cables, auxiliary equipment, etc. and complies with locally applicable regulations.

When suspending the fixture above ground level, secure it against failure of primary attachments by attaching a safety wire that is approved as a safety attachment for the weight of the fixture to an anchor point on the product main frame.

Do not use removable parts or weak anchors for secondary attachment.

Warning! When clamping the fixture to a truss or other structure at any angle, use clamps of half-coupler type. Do not use any type of clamp that does not completely encircle the structure when fastened.
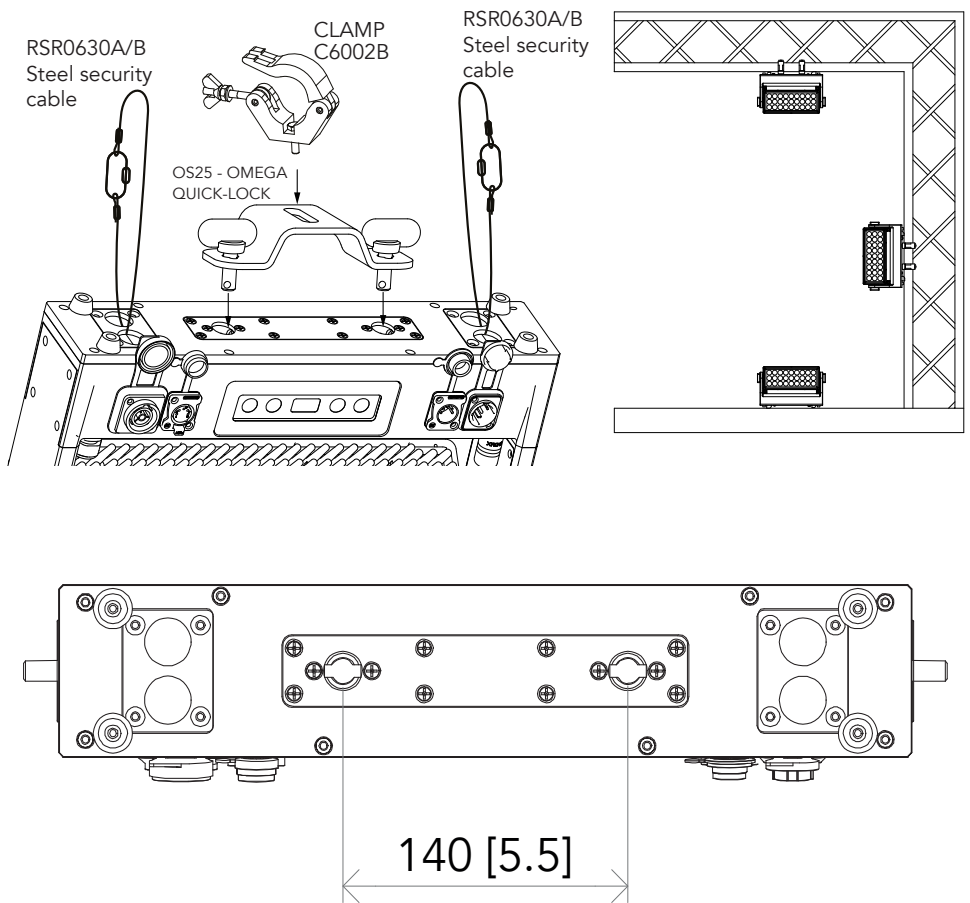

Fig. 02

4 - PRODUCT OVERVIEW

1. KNOB: to adjusting tilt positions.
2. ANTENNA of Wireless DMX Receiver internal module.
3. POWER IN: for connection to the Mains 100-240V~/50-60Hz.
4. DMX IN (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C.
5. USER INTERFACE with display and buttons for access to the control panel functions.
6. DMX OUT (5-p XLR): 1 = GND, 2 = sign-, 3 = sign+, 4 N/C, 5 N/C.
7. POWER OUT: power output for connection of multiple units in series.
8. SAFETY EYES to attach safety cable.
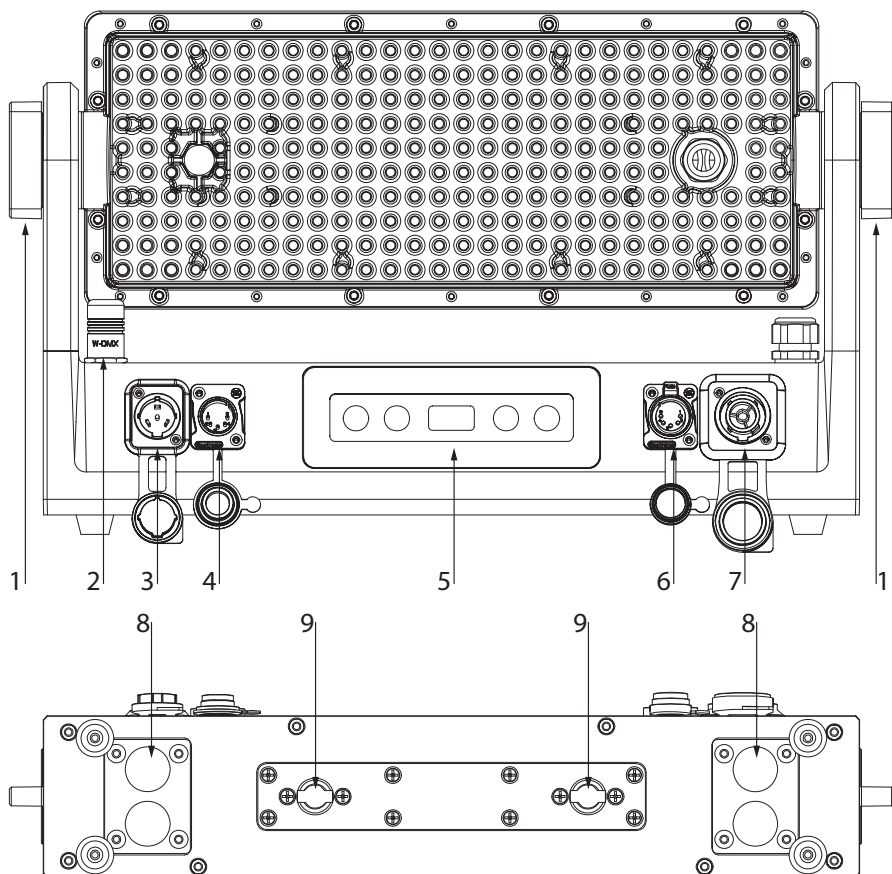9. HOLE for Omega Quick-Lock barcket.

Fig. 03

5 - CONNECTION TO THE MAINS SUPPLY

WARNING: For protection from electric shock, the fixture must be earthed!
The product is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 Volts.
If you need to install a power plug on the power cable to allow connection to power outlets, install a grounding-type (earthed) plug, following the plug manufacturer's instructions. If you have any doubts about proper installation, consult a qualified electrician.
The max power consumption is 268W (at 230V) and 275W (at 120V).
You can link up tp 5 units at 120 V; 9 at 230 V. Never exceed this number. Power linking cords can be purchased separately.

Core (EU)	Core (US)	Connection	Plug terminal marking
Brown	Black	Live	L
Blue	White	Neutral	N
Yellow+green	Green	Earth	E

6 - START UP

CONNECT AND DISCONNECT POWER FROM THE PRODUCT
To apply and disconnect power to the product:
- Check that the product is installed and secured as indicated in the Safety Informations, and that personal safety will not be put at risk when the fixture lights up.
- Connect the power connector into the Mains input socket (100-240 VAC-50/60 Hz).
- The product is then ready for its operations and can be controlled through the available input signals on board.
- To disconnect power from the product, disconnect the Mains from the socket.

7 - DMX CONNECTION

CONNECTION OF THE CONTROL SIGNAL: DMX LINE
The product has XLR sockets for DMX input and output.
The default pin-out on both socket is as the following diagram:

DMX - INPUT
XLR plug

DMX - OUTPUT
XLR socket

Pin1 : GND - Shield
Pin2 : - Signal
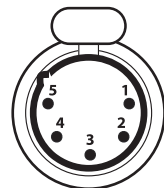Pin3 : + Signal
Pin4 : N/C
Pin5 : N/C

Fig. 04

INSTRUCTIONS FOR A RELIABLE DMX CONNECTION
Use shielded twisted-pair cable designed for RS-485 devices: standard microphone cable cannot transmit control data reliably over long runs. 24 AWG cable is suitable for runs up to 300 meters (1000 ft).
Heavier gauge cable and/or an amplifier is recommended for longer runs.
To split the data link into branches, use splitter-amplifiers in the connection line.
Do not overload the link. Up to 32 devices may be connected on a serial link.

CONNECTION DAISY CHAIN
Connect the DMX data output from the DMX source to the product DMX input (male connector XLR) socket.
Run the data link from the product XLR output (female connector XLR) socket to the DMX input of the next fixture.
Terminate the data link by connecting a 120 Ohm signal termination. If a splitter is used, terminate each branch of the link.
Install a DMX termination plug on the last fixture on the link.

CONNECTION OF THE DMX LINE
DMX connection employs standard XLR connectors. Use shielded pair-twisted cables with 120Ω impedance and low capacity.
The following diagram shows the connection mode:
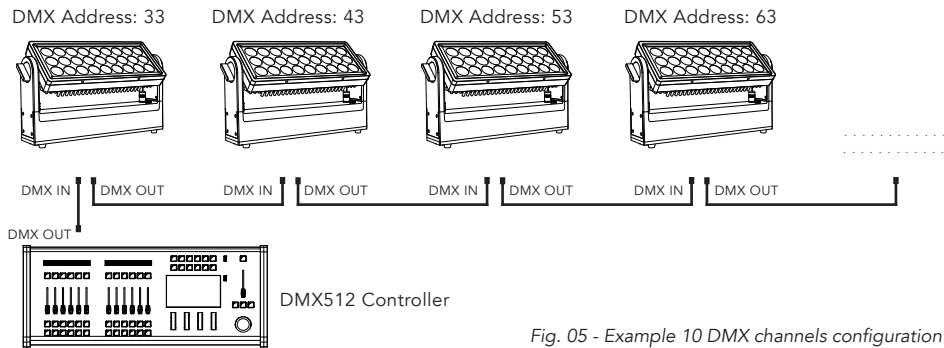
DMX Address: 33   DMX Address: 43   DMX Address: 53   DMX Address: 63

DMX IN   DMX OUT   DMX IN   DMX OUT   DMX IN   DMX OUT   DMX IN   DMX OUT

DMX OUT

DMX512 Controller

Fig. 05 - Example 10 DMX channels configuration

CONSTRUCTION OF THE DMX TERMINATION

The termination is prepared by soldering a 120Ω 1/4 W resistor between pins 2 and 3 of the male XLR connector, as shown in figure.
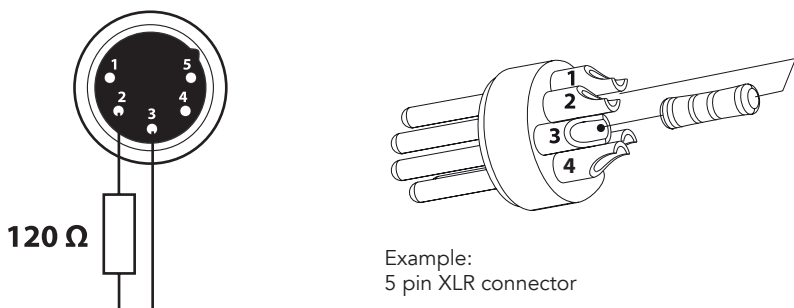

120 Ω

Example:
5 pin XLR connector

Fig. 06

DMX ADDRESSING

In order to start controlling the product via DMX, the first step is to select a DMX address, also known as the start channel, this is the first channel used to receive instructions from a DMX controller. If you wish to control the product individually, it is necessary to assign a different starting address channel to each fixture.

The number of channels occupied from the product depends on the DMX mode selected, so always verify the DMX Mode in the MENU before start addressing.

If you assign two fixtures the same address, they will be executing the same behaviour. Selecting the same address to multiple fixtures can be useful for diagnostic purposes and symmetrical control.

DMX addressing is limited to make it impossible to set the DMX address so high that you are left without enough control channels for the product.

To set the fixture's DMX address:

1. Press ENTER to open the main menu.
2. Reach the addressing menu, then select the DMX ADDRESS settings.
3. Select the address from 1 to 512 using the navigation arrows/buttons and confirm by pressing ENTER.
4. Press Menu to exit and return to the Home screen.

OPERATION AS A WIRELESS TRANSMITTER

ASTRAHYB330 can be used as wireless transmitter to transmit DMX signal to different wireless receivers. To use ASTRAHYB330 as wireless transmitter, please follow the procedure below:

1. Push ENTER button untill you show CONNECT on display, then press ENTER button to confirm.
2. Use UP/DOWN buttons for select WIRELESS, then press ENTER to confirm.
3. Push ENTER button on WDMX ON/OFF function and enable it to ON.
4. Select WDMX mode and set it on Transmitter (please note that WDMX mode will be available only if WDMX ON/OFF is set to ON).
5. Ensure that the receiver units are not connected to any other transmitter. Please refer to "Reset the receiver" paragraph.
6. Enable TX LINK to ON to link transmitter to receivers (please note that TX LINK will be available only if WDMX mode is set to Transmitter).
• The transmitter scans for all unlinked receivers for a period of about 5 seconds.
• If the connection fails, check the position of the receiver.
• The wireless icon on the receiver display indicates the received signal strength.

Unlinking the transmitter
Follow the procedure below to unlink the transmitter from all receivers connected with the unit.
1. Push ENTER button untill you show CONNECT on display, then press ENTER button to confirm.
2. Use UP/DOWN buttons for select Wireless, then press ENTER to confirm.
3. Enable TX UNLINK to ON 8 (please note that TX UNLINK will be available only if WDMX mode is set to Transmitter).
• All connected receivers will be unlinked.

IN TO WDMX
This function enable or disable the transmission throught wireless of the DMX signal from the transmitter side to the receiver.
Any incoming signal (DMX) is retransmitted throught wireless. It's possible to choose retransmission of Main Fixture or Pixel Engine.

OPERATION AS A WIRELESS RECEIVER
ASTRAHYB330 can be used as wireless receiver connected to a wireless transmitter.
To use ASTRAHYB330 as wireless receiver, please follow the procedure below:
1. Push ENTER button untill you show CONNECT on display, then press ENTER button to confirm.
2. Use UP/DOWN buttons for select Wireless, then press ENTER to confirm.
3. Push ENTER button on WDMX ON/OFF function and enable it to ON.
4. Select WDMX mode and set it on Receiver (please note that WDMX mode will be available only if WDMX ON/OFF is set to ON).
5. Enable RX RESET to ON to reset the receiver (please note that RX RESET will be available only if WDMX mode is set to Receiver).
6. On the transmitter, enable TX LINK to ON to link transmitter to the receivers.
7. If the connection is successful and DMX input is available the display the display on the receiver unit will shows the DMX address. If DMX signal is not available, the display will shows "No signal" but keeps the transmitter linked.
8. If the connection fails, check the position of the receiver.
9. The wireless icon on the receiver display indicates the received signal strength.

Reset the receiver
Follow the procedure below to reset the receiver.
1. Push MENU button untill you show CONNECT on display, then press ENTER button to confirm.
2. Use UP/DOWN buttons for select Wireless, then press ENTER to confirm.
3. Enable RX RESET to ON.
• The wireless icon on the receiver display indicates the received signal strength.

WDMX TO DMX (RX)
This function enable or disable the retransmission of the wireless DMX signal received throught the DMX port on the receiver side.

8 - CONTROL PANEL

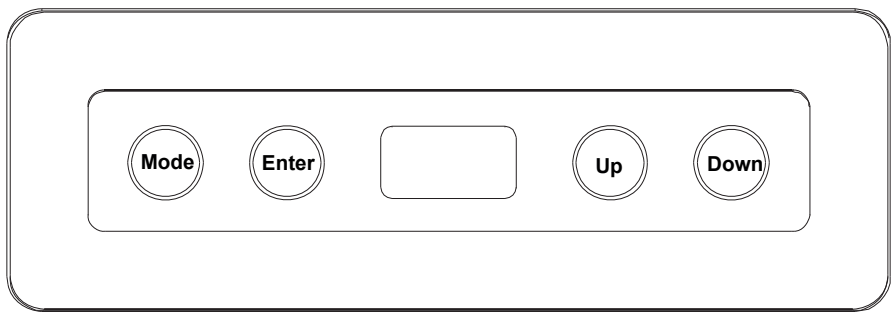The product has a display and buttons for access to the control panel functions.

Fig. 07

DISPLAY AND BUTTONS LAYOUT
The product has a display and buttons for access to the control panel functions:

Mode	• Used to access the menu or to return a previous menu option
Enter	• Used to select and store the current menu or confirm the current function value or option within a menu
Up	• Navigates downwards through the menu list and increases the numeric value when in a function
Down	• Navigates upwards through the menu list and decreases the numeric value when in a function

9 - MENU STRUCTURE

The following chart describes the MENU tree of the product, the terms shown in **BOLD** indicates the default settings.

1	CONNECT	ADDRESS	DMX	VALUE (**1**-512)		Set address used for Fixture and for Pixel patch.
		DMX MODE	**5CH**			Set DMX chart for Main Fixture.
			7CH			
			10CH			
			13CH			
			17CH			
		WIRELESS	RECEIVE ON/OFF	ON/**OFF**		Enable/Disable the wireless card.
			RECEIVE RESET	**NO**/YES		Total reset of the receiver.
			WIRELESS ON DMX	**NO**/YES		Enable/Disable the retransmission of the DMX from the receiver to the other units connected by cable to the receiver itself.
2	SET UP	SCREEN	BACKLIGHT	ON/**10S**/20S/30S		Allows you to select the timing after that display will switch automatically off when unactive.
			KEY LOCK	ON/**OFF**		Allows you lock the buttons on the control panel by a password. Press following combinations (password) in order to access to the user menu : UP, DOWN, UP, DOWN, and finally press ENTER.
3	ADVANCED	DIMMER MODE	OFF			Select this function to choose to simulate different dimming curves.
			DIMMER 1			
			DIMMER 2			
			DIMMER 3			
		WHITE BALANCE	OFF			
			ADJUST	RED	VALUE (125-**255**)	
				GREEN	VALUE (125-**255**)	
				BLUE	VALUE (125-**255**)	
				WHITE	VALUE (125-**255**)	
			LED FREQUENCY	600Hz **1200Hz** 2000Hz 4000Hz 6000Hz 25kHz		Select PWM frequency.

			FACTORY RELOAD	YES/NO		*Factory Reload to bring back all default values and settings.*
4	INFORMATION	FIXTURE TIME	0-9999			*To check the total working hours of the unit.*
		VERSION	V1.0			*View informations about software version.*
		UID	<15D00220****>			*View ID for the RDM control.*
5	STAND ALONE	MASTER/ SLAVE	MASTER			*Allow you to link and operating in synk multiple units without a DMX console. Choose a unit to perform as the Master. This unit must be the first unit in line; Set the successive units to be slave.*
			SLAVE			
		EFFECTS	EFFECT1	SPEED (1-100)		
			.....			
			EFFECT9			
		STATIC	FIXED COLOR	R		
				G		
				B		
				W		
				GB		
				RB		
				RG		
				RGB		
				RW		
				GW		
				BW		
				RGW		
				RBW		
				GBW		
				RGBW		
		MANUAL COLOR	RED	VALUE (**000**-512)		
			GREEN	VALUE (**000**-512)		
			BLUE	VALUE (**000**-512)		
			WHITE	VALUE (**000**-512)		

10 - RDM FUNCTIONS

The product can communicate using RDM (Remote Device Management) protocol over a DMX512 Networks.

RDM is a bi-directional communications protocol for use in DMX512 control systems, it is the open standard for DMX512 device configuration and status monitoring.

The RDM protocol allows data packets to be inserted into a DMX512 data stream without affecting existing non-RDM equipment. It allows a console or dedicated RDM controller to send commands to and receive messages from specific fixtures.

The PIDs in the following tables are supported in the product.

Parameter	PID	GET	SET
DMX_PERSONALITY	0x00e0	x	x
DMX_PERSONALITY_DESCRIPTION	0x00e1	x	x
CURVE	0x0343	x	x
MODULATION_FREQUENCY	0x0347	x	x
IDENTIFY_DEVICE	0x1000	x	
FACTORY_DEFAULTS	0x0090	x	x
WBANLANCE_R	0x8200	x	x
WBANLANCE_G	0x8201	x	x
WBANLANCE_B	0x8202	x	x
WBANLANCE_W	0x8203	x	x

11 - DMX CHARTS

Channel	5 Ch	7 Ch	10 Ch	13 Ch	17 Ch
1	RED	DIMMER	DIMMER	RED 1	DIMMER
2	GREEN	RED	RED	GREEN 1	STROBE 1
3	BLUE	GREEN	GREEN	BLUE 1	STROBE 2
4	WHITE	BLUE	BLUE	WHITE 1	STROBE 3
5	DIMMER SPEED MODE	WHITE	WHITE	RED 2	RED 1
6		STROBE	STROBE	GREEN 2	GREEN 1
7		DIMMER SPEED MODE	COLOR MACRO	BLUE 2	BLUE 1
8			EFFECTS	WHITE 2	WHITE 1
9			EFFECTS SPEED	RED 3	RED 2
10			DIMMER SPEED MODE	GREEN 3	GREEN 2
11				BLUE 3	BLUE 2
12				WHITE 3	WHITE 2
13				DIMMER SPEED MODE	RED 3
14					GREEN 3
15					BLUE 3
16					WHITE 3
17					DIMMER SPEED MODE

MODE							
5CH	7CH	10CH	13CH	17CH	FUNCTION	DMX Value	Default
	1	1		1	**DIMMER** Lineary from 0% to 100%	000-255	000
1	2	2			**RED** Lineary from 0% to 100%	000-255	255
2	3	3			**GREEN** Lineary from 0% to 100%	000-255	255
3	4	4			**BLUE** Lineary from 0% to 100%	000-255	255
4	5	5			**WHITE** Lineary from 0% to 100%	000-255	255
	6	6			**STROBE** No function Strobe Slow to Fast	000 - 010 011 - 255	000
				2	**STROBE 1** No function Strobe Slow to Fast	000 - 010 011 - 255	000
				3	**STROBE 2** No function Strobe Slow to Fast	000 - 010 011 - 255	000
				4	**STROBE 3** No function Strobe Slow to Fast	000 - 010 011 - 255	000
				7	**COLOR MACRO** No Function R 100%, G 0~100%, B 0 % R 100%~0 %, G 100%, B 0 % R 0 %, G 100%, B 0~100% R 0 %, G 100~0 %, B 100% R 0~100%, G 0 %, B 100% R 100%, G 0 %, B 100~0 % R 100%, G 0~100%, B 0~100% R 100~0 %, G 100~0 %, B 100% R 100%, G 100%, B 100%, W 100% 2800k 3000k 3200k 4000k 5600k 6000k 6500k 7000k 8000k 9000k 10000k	000 - 010 011 - 030 031 - 050 051 - 070 071 - 090 091 - 110 111 - 130 131 - 150 151 - 170 171 - 200 201 - 205 206 - 210 211 - 215 216 - 220 221 - 225 226 - 230 231 - 235 236 - 240 241 - 245 246 - 250 251 - 255	000
				8	**EFFECTS** No Function Effect 1 Effect 2 Effect 3 Effect4 Effect5 (Effects1- 4) Effect 6 Effect 7 Effect 8 Effect 9 (Effects6- 8)	000-010 011-037 038-064 065-091 092-118 119-145 146-172 173-199 200-226 227-255	000
				9	**EFFECTS SPEED** Effects speed slow to fast	000-255	000

MODE							
5CH	7CH	10CH	13CH	17CH	FUNCTION	DMX Value	Default
			1	5	**RED 1** Lineary from 0% to 100%	000-255	255
			2	6	**GREEN 1** Lineary from 0% to 100%	000-255	255
			3	7	**BLUE 1** Lineary from 0% to 100%	000-255	255
			4	8	**WHITE 1** Lineary from 0% to 100%	000-255	255
			5	9	**RED 2** Lineary from 0% to 100%	000-255	255
			6	10	**GREEN 2** Lineary from 0% to 100%	000-255	255
			7	11	**BLUE 2** Lineary from 0% to 100%	000-255	255
			8	12	**WHITE 2** Lineary from 0% to 100%	000-255	255
			9	13	**RED 3** Lineary from 0% to 100%	000-255	255
			10	14	**GREEN 3** Lineary from 0% to 100%	000-255	255
			11	15	**BLUE 3** Lineary from 0% to 100%	000-255	255
			12	16	**WHITE 3** Lineary from 0% to 100%	000-255	255
5	7	10	13	17	**DIMMER SPEED MODE** Preset dimmer speed from display menu Dimmer speed mode off Dimmer speed mode 1 (fast speed) Dimmer speed mode 2 (middle speed) Dimmer speed mode 3 (slow speed)	000 - 051 052 - 101 102 - 152 153 - 203 204 - 255	000

PROLIGHTS - **Solar** 27Q

12 - ACCESSORIES INSTALLATION

LENS (CODE S27QLENS 10 - 15 -25 - 45)
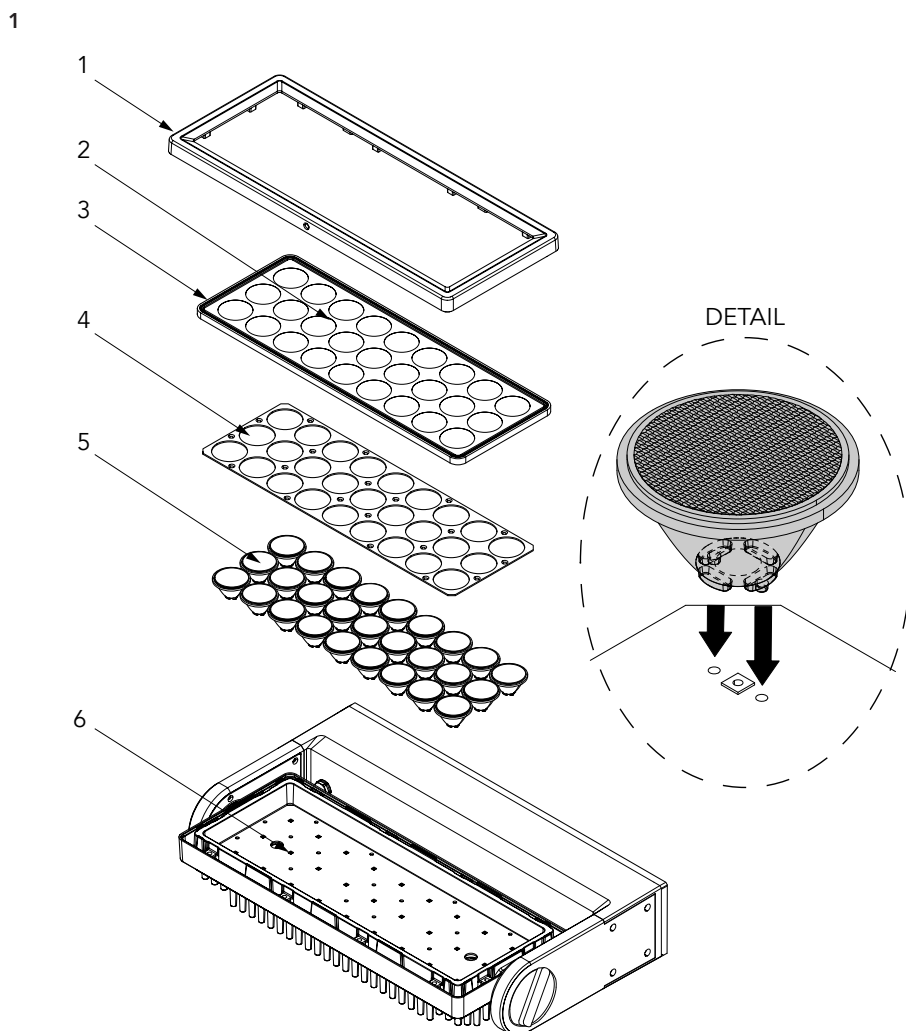
1

DETAIL

WARNING: never touch the LEDs.
1. Remove the front cover (1) by loosing the screws. Then remove the front glass (2), rubber seal (3), lens holder (4) and the lens (5)
2. Replace the lenses by inserting the two pins on the back of the lens (DETAIL) with the holes provided on the PCB LED (5).
NOTE: to reassemble the lenses, reverse the procedure.
NOTE: it is recommended to tighten the front cover screws carefully so as to guarantee the correct IP degree.

Fig. 09

LIGHT DIFFUSION FILTER (CODE S27QFILTER 40 - 60 - 1060 - 3060)
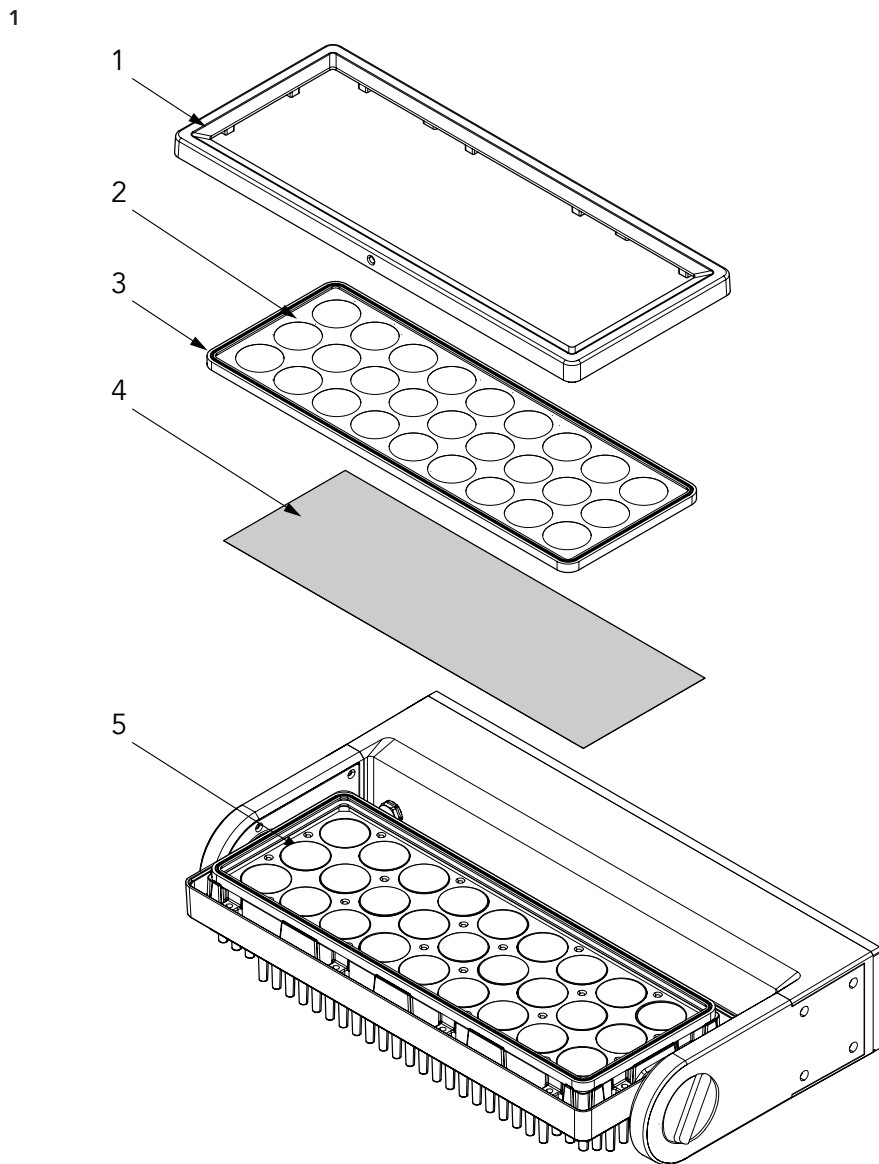
1

WARNING: never touch the LEDs.
1. Remove the front cover (1) by loosing the screws. Then remove the front glass (2) and the rubber seal (3). Place the light diffusion filter (4) on the lenses (5).
NOTE: to remove the light diffusion filter, reverse the procedure.
NOTE: it is recommended to tighten the front cover screws carefully so as to guarantee the correct IP degree.

Fig. 10

BARN DOOR (CODE S27QBD - OPTIONAL)

1
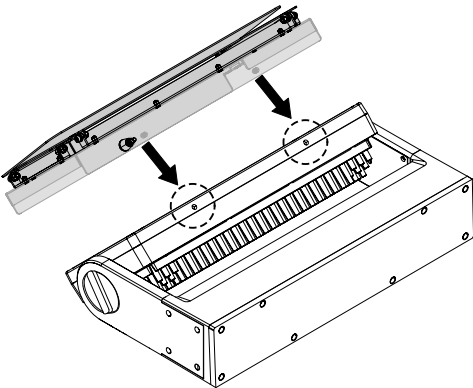
2
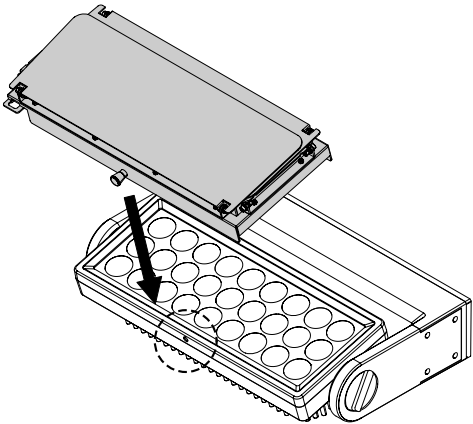
Insert the two marked pin on down edge of the barn door into the holes provided on the unit (1) and positioning the spring pin on the hardware into the hole provided on the top (2).

3
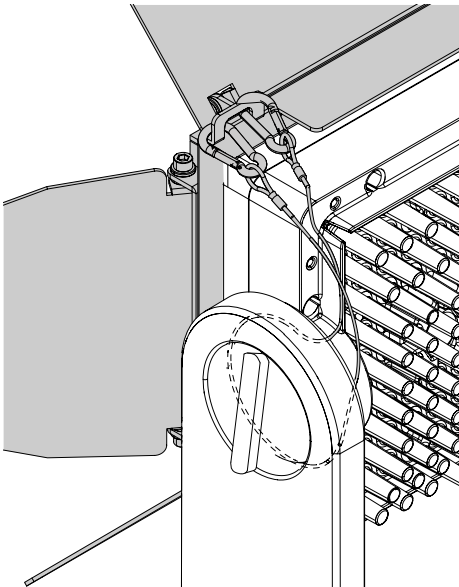
4
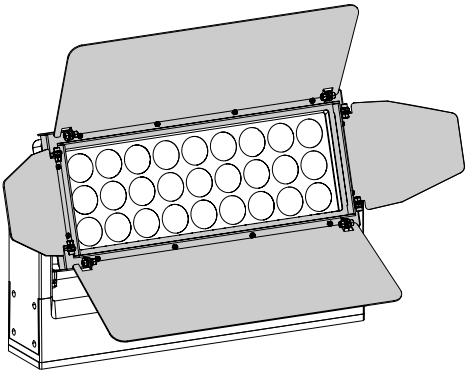
Hook the safety cable (3) and adjust the angle of the four leafs (4).

Fig. 11

13 - MAINTENANCE

MAINTENANCE AND CLEANING THE PRODUCT

WARNING: Disconnect from the mains before starting any maintenance work

It is recommended to clean the front at regular intervals, from impurities caused by dust, smoke, or other particles to ensure that the light is radiated at maximum brightness.

- For cleaning, disconnect the main plug from the socket. Use a soft, clean cloth moistened with a mild detergent. Then carefully wipe the part dry. For cleaning other housing parts use only a soft, clean cloth. Never use a liquid, it might penetrate the unit and cause damage to it.
- The user must clean the product periodically to maintain optimum performance and cooling. The user may also upload firmware (product software) to the fixture via the DMX signal input port using firmware and instructions from MUSIC & LIGHTS.
- The frequency of such maintenance operations is to be performed according to various factors, such as the amount of the use and the condition of the installation environment. It is recommended that the product is subject to annual service by a qualified technician for special maintenance involving at least the following procedures:
- General cleaning of internal parts.
- All other service operations on the product must be carried out by MUSIC & LIGHTS, its approved service agents or trained and qualified personnel.
- Use only accessories approved by MUSIC & LIGHTS.

VISUAL CHECK OF PRODUCT HOUSING

- The parts of the product cover/housing and glass must be checked for eventual damages and breaking, do not use the product until the damaged part will be replaced.
- Cracks or another damages of the cover/housing parts can be caused by the product transportation or manipulation and also ageing process may influence materials.
- This checking is necessary for both fixed installations and preparing product for renting. Any free moving parts inside of the product, cracked cover/housing or any part of front glass not sitting properly in place need to be immediately replaced.

TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Product doesn't power ON	• No power to the product.	• Check that power is switched ON and cables are plugged in.
	• Fuse blown or internal fault.	• Check if the Fuse is intact and eventually replace it if necessary. • Contact the MUSIC & LIGHTS Service or authorized service partner. Do not remove parts and/or covers, or carry out any repairs or service that are not described in this Safety and User Manual unless you have both authorization from MUSIC & LIGHTS and the service documentation.
Product reset correctly but does not respond correctly to the contoller.	• Bad signal connection.	• Inspect connections and cables. Fix eventual bad connections. Repair or replace damaged cables.
	• Signal connection not terminated.	• Insert DMX termination plug in signal output socket of the last product on the signal line.
	• Incorrect addressing of the product.	• Check the product address and control settings.
	• One of the product is defective and is corrupting the signal transmission on the signal line.	• Unplug the XLR in and out connectors and connect them directly together to bypass one product at a time until normal operation is regained. Once found the error, have that fixture serviced by a qualified technician.
Timeout error after fixture reset.	• One or more hardware components requires mechanical adjustments.	• Check product stored error messages for more information. Contact MUSIC & LIGHTS Service or an authorized service partner.
Mechanical effect loses position	• Mechanical hardware require cleaning, adjustment or lubrification.	• Check product stored error messages for more information. Contact MUSIC & LIGHTS Service or an authorized service partner.
Light output turn OFF Intermittently	• Fixture is too hot.	• Check product stored error messages. • Allow product to cool. • Clean the product and airflow filters. • Reduce ambient temperature.
	• Hardware failure (temperature sensor, fans, Light source...).	• Check product stored error messages for more information. Contact. • MUSIC & LIGHTS Service or an authorized service partner.
General low light intensity	• Dirty lens assembly. • Dirty or damaged filters.	• Clean the fixture regularly. • Install lens assembly properly.

Contact an authorized service center in case of technical problems or not reported in the table can not be resolved by the procedure given in the table.

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