

# Moonglow DMX V2

Classic spinning disco effect with DMX

Due to continuous product development, please ensure that you have downloaded the latest instruction manual for this product from the AVSL website at [www.avsl.com](http://www.avsl.com)

For the latest instruction manual updates and information on the entire range visit:

[www.avsl.com](http://www.avsl.com)



## Thank you for purchasing this product, we are sure that it will serve you for many years to come.

To optimise the performance of this product, please read these operating instructions carefully to familiarise yourself with the basic operations of this unit. Please retain them for future reference. This unit has been tested at the factory before being shipped to you.

To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture. To prevent a fire hazard, do not expose the unit to any naked flame sources. Unplug this apparatus during lightning storms or if it is unlikely to be used for long periods of time.

When installing the unit, please ensure you leave enough space around the unit for ventilation. Slots and openings in the unit are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered.

The unit is powered by mains electricity, always handle the power cable by the plug. Never pull out the plug by pulling on the cable. Never touch the power cable when your hands are wet as this could cause an electric shock. Do not tie a knot in the cable. The power cable should be placed such that it is not likely to be stepped on. A damaged power cable can cause a fire or give you an electrical shock. Check the power cord periodically, if you ever find that it is damaged, replace it before using the unit again. Contact your retailer for a replacement.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit is to be used meets the required written on the unit.

**The lightning flash symbol inside a triangle is to alert the user to the presence high voltage within the unit's enclosure that may be of sufficient power to constitute a risk of electrical shock to persons.**

**Caution: to prevent the risk of electric shock, do not attempt to open the unit. No user-serviceable parts inside. Refer all servicing to qualified service personnel.**

**The exclamation mark inside a triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.**

Select the installation location of your unit carefully. Avoid placing it in direct sunlight or locations subject to vibration and excessive dust. Do not use the unit where there are extremes in temperature (below 41°F / 5°C or exceeding 95°F / 35°C).

**Unpacking and safety** Please unpack your new product carefully. Your new product should reach you in perfect condition. Please check that no damage has occurred during transit. If any damage is found, do not operate your unit. Please contact the retailer you purchased it from immediately. If there is any damage to the mains cable do not use the device. Always disconnect the unit from the mains supply when carrying out any cleaning of the unit.



### Manufacturer declarations

In compliance with the following requirements: **RoHS Directive (2002/95/EU)** and **WEEE Directive (2002/96/EU)**.

If this product is ever no longer functional please take it to a recycling plant for environmentally friendly disposal.

### CE declaration of conformity

R&TTE Directive (1999/5/EU), EMC Directive (2004/108/EU), Low Voltage Directive (2006/95/EU).

Before putting the devices into operation, please observe the respective country-specific regulations.

## **DMX512 connection / connection between multiple units**

### **XLR-connection:**

When using a DMX controller, connect the DMX output of the controller directly to the DMX input of the first unit in the DMX chain.

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

Connect the DMX **output** of the first unit in the DMX chain with the DMX **input** of the next unit. Always connect one output with the input of the next unit until all units are connected.

**Caution:** on the last unit, the DMX cable has to be terminated with a terminator. Solder a 120 resistor between signal (-) and signal (+) into a 3 pin XLR plug and plug it in the DMX output of the last unit.

### **Mains power connection**

Connect the device to the mains with the supplied power cable.

## **Operation**

### **1. DMX512 protocol**

#### **Addressing**

The LED display on the side of the unit allows you to assign the DMX unit address, which is defined as the first channel from which the unit will respond to the controller. If you set, for example, the address to channel 7, the unit will use the channel 7 to 14 for control. Please, be sure that you don't have any overlapping channels in order to control each unit correctly and independently from any other unit on the DMX data link. If two, three or more units are addressed similarly, they will work similarly. In DMX mode you can choose the address from 1 to 512. After you connect the unit to the mains, the unit starts running. When the unit finishes resetting, the letters A-001 will flash in the LED display and then you can set the desired DMX address by pressing the UP or DOWN buttons.

#### **DMX control**

After having addressed all units, you can now start operating them via your lighting controller. After switching on, each unit will automatically detect whether DMX512 data is received or not.

#### **DMX channels**

<b>Channel 1</b>	On/Off
<b>Channel 2</b>	Red & amber from low to high brightness
<b>Channel 3</b>	Green & pink from low to high brightness
<b>Channel 4</b>	Blue & white from low to high brightness
<b>Channel 5</b>	Strobe from slow to fast
<b>Channel 6</b>	Adjust motor running speed
<b>Channel 7</b>	Preset shows

### **2. Sound-to-Light mode**

Press the MENU button, until S1 or S2 shows in the LED display, confirm your choice using the ENTER button, the unit will now respond to the beat of any music playing. The built-in microphone responds best to the bass sounds in a tune.

### **3. Auto mode**

Press the MENU button, the following functions can be achieved using the button ENTER:

<b>A1</b>	Red & amber colour
<b>A2</b>	Green & pink colour
<b>A3</b>	Blue & white colour
<b>A4</b>	Colour changing pattern 1
<b>A5</b>	Colour changing pattern 2
<b>A6</b>	Increasing brightness / then decreasing brightness
<b>A7</b>	Strobe

### **4. Synchronization & Master/Slave mode**

Take one unit and set it to Sound-to-Light mode, or Auto mode as described above, then get other units and press the MENU button until A001 shows in the LED display, confirm using the ENTER button, then connect the units to the Auto/Sound-to-Light unit already set using DMX cables. Disconnect all units from the DMX controller, the units will now work simultaneously, the Auto/Sound-to-Light unit will act as the Master, the others will act as slave units.

**Technical specifications**

<b>Power supply</b>	AC 220-240V / 50/60Hz
<b>Power consumption</b>	Max. 20w
<b>Fuse</b>	250V 1.0A
<b>DMX control channels</b>	10
<b>DMX512 connection</b>	3 pin XLR
<b>Number of LEDs</b>	6 x high MCD 1W LEDs, red / green / blue / white / amber / pink
<b>Flash-rate</b>	Max. 30Hz
<b>Dimensions</b>	160 x 160 x 170mm