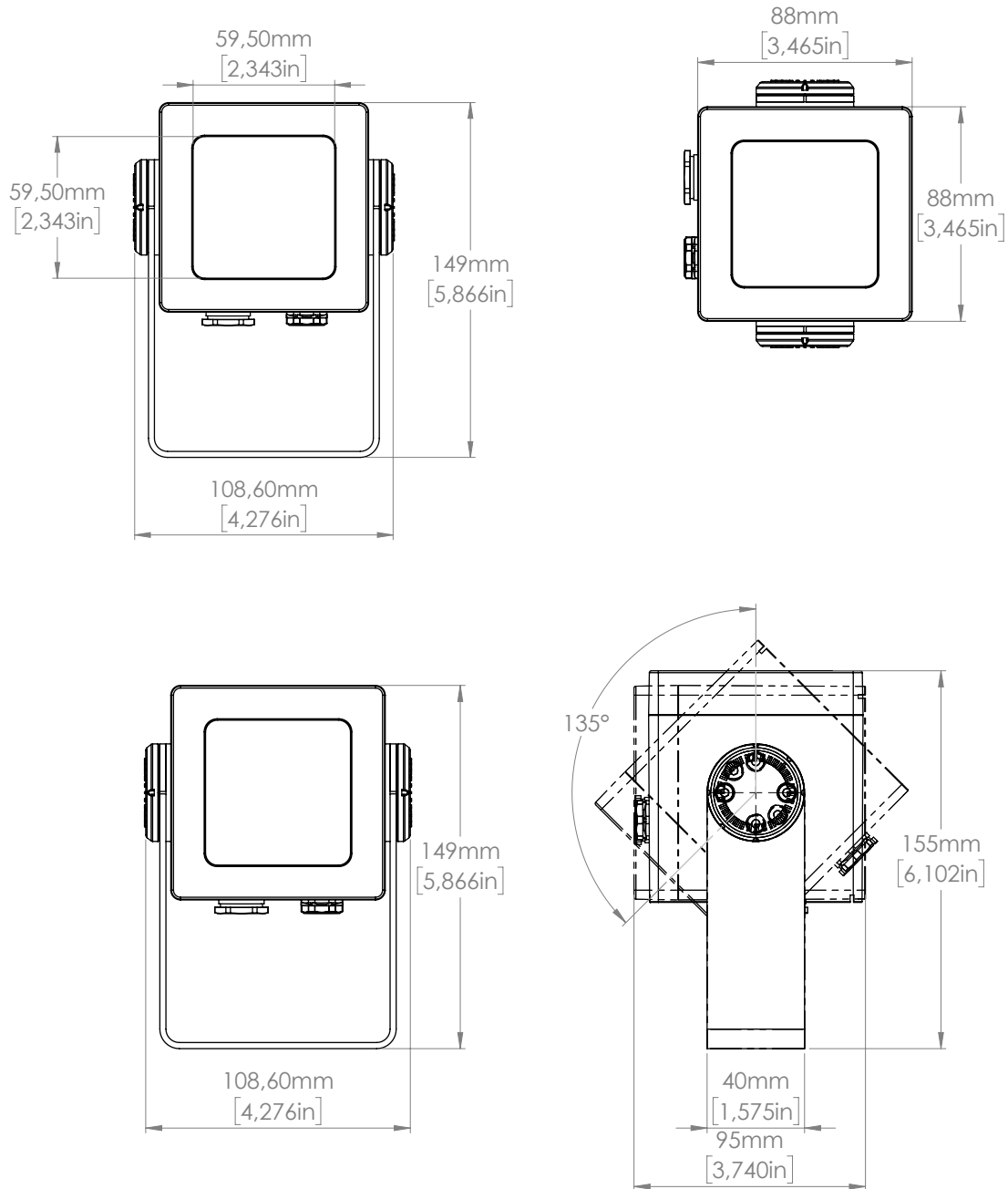


USERMANUAL

POI-15 Wash



POI-15 WASH POI DIMENSIONS



All dimensions in millimetres and inches. Drawing not to scale

This manual covers installation, use, and maintenance of the POI Wash SGM Series. A digital version is available at www.sgmlighting.com or upon request via support@sgmlighting.com. The information in this document is subject to change without notice. SGM 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 manual. The SGM logo, the SGM name, and all other trademarks in this document pertaining to SGM services or SGM products are trademarks owned or licensed by SGM, its affiliates, and subsidiaries. This edition applies to firmware version 1.00 or later.

English edition © 2025 SGM Lighting ApS.

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WARNING! READ THE FOLLOWING SAFETY PRECAUTIONS CAREFULLY BEFORE UNPACKING, INSTALLING, POWERING OR OPERATING THE DEVICE.



SGM fixtures are intended for professional use only. They are not suitable for household use.

Les fixtures SGM sont impropres à l'usage domestique. Uniquement à usage professionnel.

This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.

Ce produit doit être installé selon le code d'installation pertinent, par une personne qui connaît bien le produit et son fonctionnement ainsi que les risques inhérents.



DANGER! RISK OF ELECTRIC SHOCK DO NOT OPEN THE DEVICE!

- Do not open the device; there are no user-serviceable parts inside.
- Disconnect power before installing or servicing to avoid electrical shock.
- Ensure that the device is electrically connected to earth (ground).
- Do not apply power if the device or mains cable is in any way damaged.
- Do not immerse the fixture in water or liquid.



WARNING! TAKE MEASURES TO PREVENT BURNS AND FIRE!

- Install in a location that prevents accidental contact with the device.
- Install only in a well-ventilated space.
- Install only in accordance with applicable building codes.
- Do not paint, cover, or modify the device, and do not filter or mask the light.
- Keep all flammable materials well away from the device.

ALLOW THE DEVICE TO COOL FOR 15 MINUTES AFTER OPERATION BEFORE TOUCHING IT
CAUTION: EXTERIOR SURFACE TEMPERATURE AFTER 5 MIN. OPERATION = 42°C (108°F).
STEADY STATE = 48°C (118°F).



WARNING! TAKE MEASURES TO PREVENT PERSONAL INJURY. DO NOT LOOK DIRECTLY AT THE LIGHT SOURCE FROM CLOSE RANGE.

- Take precautions when working at height to prevent injury due to falls.
- For Permanent Outdoor Installations (POI), ensure that the fixture is securely fastened to a load-bearing surface with suitable corrosion-resistant hardware.
- For elevated installations, secure the fixture with suitable safety cables, and always comply with relevant load dimensioning, safety standards, and requirements.

Please visit www.sgmlighting.com for the latest version of this user manual / safety information leaflet. Due to continuous improvements, the instructions may change without notice. SGM always recommends the latest available firmware version from www.sgmlighting.com.



VISUAL INSPECTION

All users of the SGM fixtures should regularly clean those parts of the fixture directly exposed to the elements, such as the external housing and front lenses. Additionally, all owners of the SGM fixtures must periodically check the external housing of the fixture for structural breaks, deterioration, cracked lenses, or loose screws. To ensure proper operation, but also to prevent the risk of potential accidents, do not use the fixture if the lens, housing, or power cables are damaged. If parts of the fixture appear to be missing, cease use immediately and contact SGM support.



WIRING

When installing fixtures in a permanent installation, ensure power and data cable leads are installed as a service loop to an appropriately rated junction box using suitable cable strain reliefs/glands. All installed fixtures must be securely mounted, and service loop appropriately protected for installation location. All electrical wiring and connections should be completed by a qualified electrician.

Separation of field installed power limited circuit (dimming/control) wiring from the branch circuit wiring in the outlet box are to be made in accordance with local and/or national electrical installation codes.



SAFETY PRECAUTIONS

When using electrical equipment, basic safety precautions should always be followed including the following:

- Do not mount near gas or electric heaters.
- Permanently installed equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this equipment for other than intended use.
- Refer service to qualified personnel or authorized service centres.
- Do not look directly into the beam for long periods of time, when the fixture is on.
- The fixture shall, under no circumstance, be covered with insulating material of any kind.

READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

OVERVIEW

The POI WASH fixture family is designed to provide even and powerful washes over various areas or flat surfaces such as building facades. The range features multiple beam angles, LED engines and control protocols. The POI WASH series is an exterior rated, IP66 rated product line intended for permanent mounting.

UNPACKING AND PREPARING FOR INSTALLATION

UNPACKING

Before permanent mounting, ensure the fixture is not visibly damaged and that all parts and components are present. Testing the fixture for proper function with an external controller is also recommended. During testing, configuration and addressing can be done. The POI WASH family are addressable products and are most efficiently configured before final installation. This is especially true in installations where the fixtures will be in inaccessible areas.

The POI WASH family is configured with the RDM Addressing Tool. All software is PC based and available for download from the SGM website.

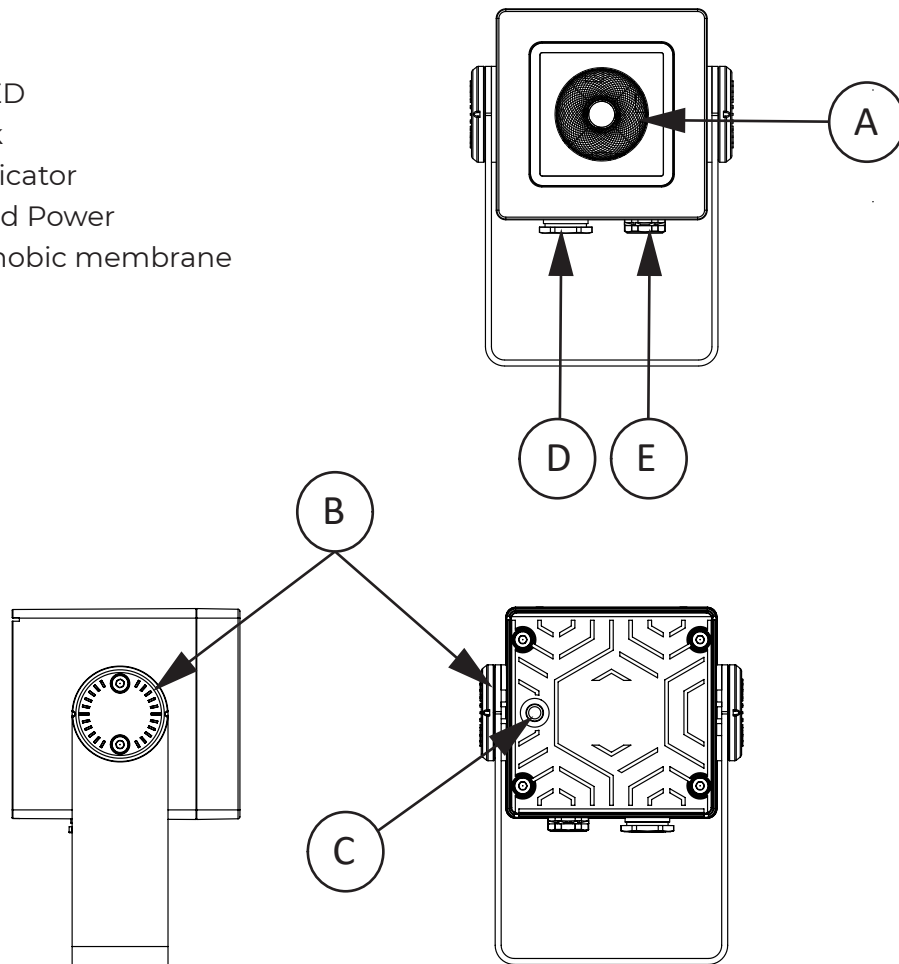
APPLICATION CONSIDERATIONS

- It is situated away from public thoroughfares and protected from contact with people.
- It is not immersed in water.
- It has adequate ventilation

When using the fixture with a DMX controller, ensure that the DMX Out on the last fixture in line should be terminated with a 120-ohm resistor.

IDENTIFICATION AND TERMINOLOGY OF POI-15 WASH

- A: Color LED
- B: Tilt Lock
- C: LED Indicator
- D: DMX and Power
- E: Hydrophobic membrane






Illustrations might vary from received products. This is subject to change without notice.

PLEASE NOTE! FIXTURES SHOULD BE PRE-SET WITH ANY CUSTOM CONFIGURATION AND PROGRAMMING BEFORE INSTALLATION. ALTHOUGH MOST FUNCTIONS ARE POSSIBLE TO BE SET VIA RDM ONCE MOUNTED IN POSITION, IT IS EASIER TO DO CONFIGURATION AND ANY TROUBLESHOOTING BEFORE MOUNTING IS COMPLETE.

Once all fixtures, parts and software are available, configuration and installation can begin.

TEMPORARILY CONNECTING POWER

The fixture comes with one cable containing both power and data wires. The fixture must be grounded/earthed. The AC power supply must incorporate a fuse or circuit breaker for fault protection. For temporary programming, a plug or terminals can be used.

Wire	Color	Symbol	Conductor
	Black	L	live
	White	N	neutral (L2)
	green/yellow	\perp or \oplus	ground (earth)

Connecting AC Power

The power cable color coding is given in the figure

- Connect the black wire to live
- Connect the white wire to neutral
- Connect the green/yellow wire to ground (earth)

The power input required is 100–277 V, 50/ 60 Hz AC mains power supply, and the fixture draws a maximum of 15W (POI-15 WASH).

TEMPORARILY CONNECTING DATA FOR CONFIGURATION

For programming and addressing, the POI WASH family can be connected using the SGM POI USB- to DMX up-loader cable.

Configuration through DMX Cable

The bare end data wires from the fixture are connected to the POI Up-loader cable for addressing and configuration. Strip and connect the cable as shown below

STEP 1: Download and install the SGM RDM Addressing tool.

<https://www.sgmlighting.com/products/rdm-addressing-tool>






STEP 2: Connect the bare end data cable to the POI Up-loader cable for POI fixtures.

STEP 3: Connect the USB up-loader cable for POI fixtures to a computer with a USB Type-A port.

STEP 4: Launch SGM RDM Addressing Tool. Click Full Discovery. Look for the fixture to show in the table.

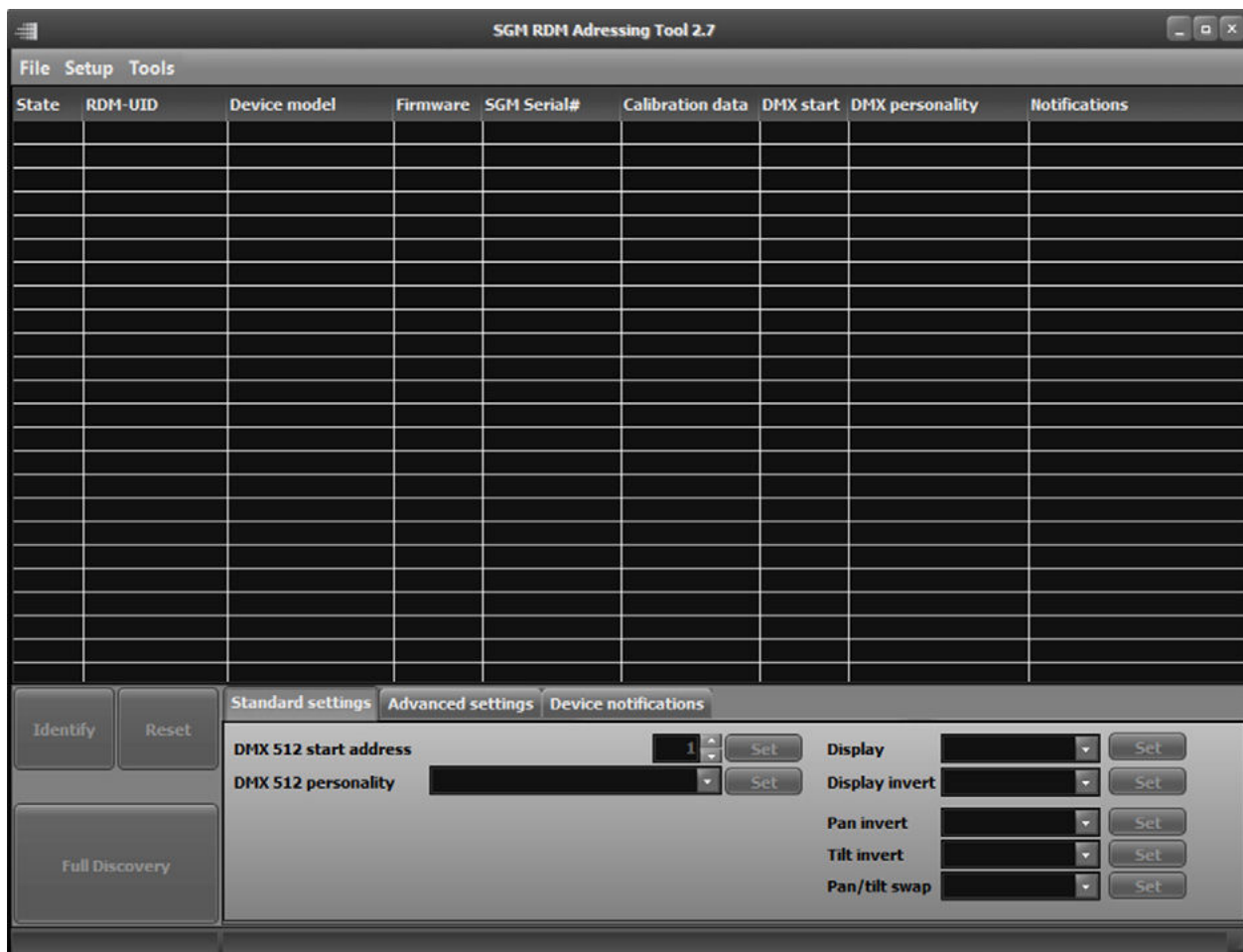
All configuration of fixtures can be done remotely through the SGM Addressing Tool. This software is a windows-based program designed to allow the user to configure the fixture through the RDM protocol.

Select the standard settings tab and enter a DMX address and a personality/mode of operation. These modes must match the control mode used in the controller which will control the fixture. Visit <http://www.sgmlighting.com> and download the DMX chart to see the available charts for the fixture.

Wire	Color	Conductor
	Shield	Ground
	White	DMX IN: Data -
	Red	DMX IN: Data +
	Black	DMX OUT: Data -
	Yellow	DMX OUT: Data +

Data wiring guide for setup





SGM Addressing tool

STEP 5: Disconnect up-loader cable from computer, then disconnect up-loader cable from fixture.
Repeat Steps 2-5 for more fixtures or initially connect multiple fixtures for addressing and configuration.

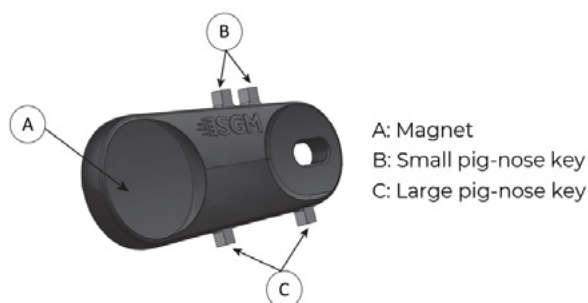
Configuration through Wireless DMX

In POI fixtures with wireless, it is necessary to pair the fixture with a new transmitter before configuration or programming. In order to do so, make sure the fixture is powered on before taking the following steps:

STEP 1: Using a SGM magnetic spanner tool, place the magnet close to the POI LED indicator, and wait for 3 seconds. The LED indicator will go from static green to blinking green. The fixture can now be paired to a new transmitter.

STEP 2: Activate “connect” or “link” on a wireless DMX transmitter. The transmitter and the internal SGM receiver should now be linked together.

The POI fixture supports RDM via Wireless DMX. Any wireless DMX transmitter that supports RDM can be used. All settings and configuration must be done through the RDM enabled transmitter.



POI Spanner

LED INDICATOR

LED COLOR	FUNCTION
Solid Orange then fast green blink	Fixture is starting up.
Fading Green	Initialization has completed, no errors and no wireless or wired DMX connection.
Solid Green	Wireless and/or wired DMX connected. No errors.
Fading Red + blink error code	Error(s) have occurred. See error code table.*
Blink Orange	(3 seconds) Hall sensor is activated. When activated more than 3 seconds wireless DMX connection is logged off.

*ERROR ID (BLINK ERROR CODE)	DESCRIPTION
1	Missing calibration data.
2	Fixture is too hot

SETTINGS

The POI WASH fixtures are configured using the SGM software; the SGM RDM Addressing Tool. This software is Windows® PC based and connects to the fixtures via DMX512/RDM using the SGM USB uploader cable.

DMX Modes

The fixture can be operated in different DMX modes. Refer to the DMX Chart available for the POI series from <https://www.sgmlighting.com>

Addressing

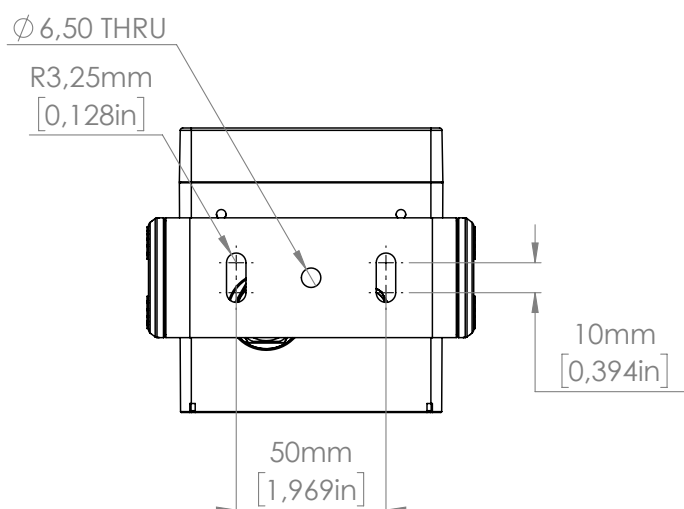
The fixture can be operated in different DMX modes. For any of the modes, the first channel used to receive data from a DMX control device is known as the DMX start address. For independent control, each fixture must be assigned its own DMX start address. For example, if the first RGBW fixture is set to CTC (8-BIT) DMX mode with a start DMX address of 101, the following RGBW fixture in the DMX chain should then be set to a DMX address of 107. As the first fixture uses all the first 6 DMX channels, including channel 101,

the next available channel is 107 (101+6=107 >> 107).

If two or more fixtures have the same DMX start address, they will behave identically. Incorrect settings will result in unpredictable responses from the lighting controller. Address sharing can be useful for diagnostic purposes and symmetrical control.

INSTALLATION

PLEASE NOTE! THE FIXTURE MUST ALWAYS BE MOUNTED IN THE 2 OUTER HOLES. USE SCREWS OR BOLTS OF APPROPRIATE STRENGTH AND SIZE



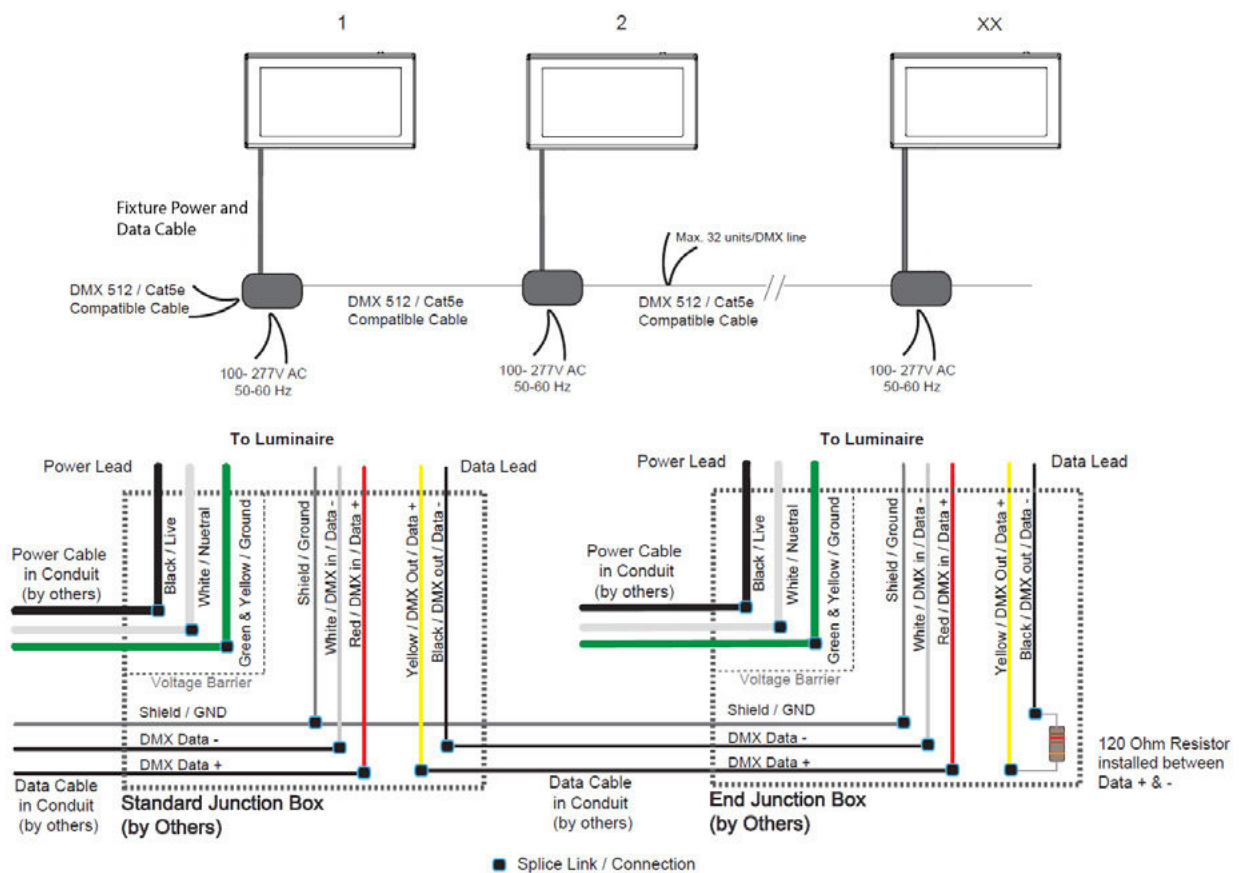
PERMANENTLY CONNECTING POWER & DATA

PLEASE NOTE! POI FIXTURES MUST BE TERMINATED IN SUITABLY IP RATED ENCLOSURES, AND WITH CABLE CONNECTIONS MEANT FOR DIGITAL DATA SIGNAL.

The POI WASH series is compatible with the following protocols:

- DMX512 (ANSI E1.11 – 2008)
- Wireless DMX (LumenRadio)
- AirGlow (LumenRadio)

POWER AND DATA CONNECTIONS WITH DMX 512 (ANSI E1.11 – 2008)



Connecting DMX and AC Power in POI

Power, DMX input and DMX output are in the same cable. See more in figure above about the SGM POI cable.

For permanent installations, have a qualified electrician wire the mains cable directly to a suitable branch circuit. Connect wiring as shown above in suitably rated junction boxes.

For a temporary installation, the mains cable may be fitted with a grounded connector intended for exterior use.

PLEASE NOTE!

- Cat5e compliant cable is suitable for the transmission of DMX 512 with RDM.
- Up to 32 fixtures can be on the same DMX link. Additional fixtures will overload the link.
- The last fixture in line must have a resistor installed between the yellow and black data out wires. This is to terminate the DMX signal.
- SGM fixtures provide a passive DMX Thru signal as DMX Out, instead of an active output signal.

RDM

RDM (Remote Device Management) is a protocol enhancement to DMX 512 that allows bi-directional communication between the fixtures and the controller over a standard DMX line. This protocol will allow configuration, status monitoring, and management. A RDM controller is needed to get control over the supported parameters. See the tables below for supported RDM functions.

PLEASE NOTE! THE RDM CONTROLLER COMMUNICATES WITH THE FIXTURES TO SHOW ONLY THE AVAILABLE OPTIONS FOR EACH RDM FUNCTION. TABLES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

SENSORS

RDM enables various sensor readouts for remote device monitoring. See the table below for sensors and sensor types.

PLEASE NOTE! THE RDM CONTROLLER COMMUNICATES WITH THE FIXTURES TO SHOW ONLY THE AVAILABLE SENSORS FOR THIS FIXTURE. THE TABLE IS SUBJECT TO CHANGE WITHOUT NOTICE.

NAME	SENSOR TYPE
LED Temperature 1	Temperature
...	...
Main Temperature	Temperature
Humidity	Other

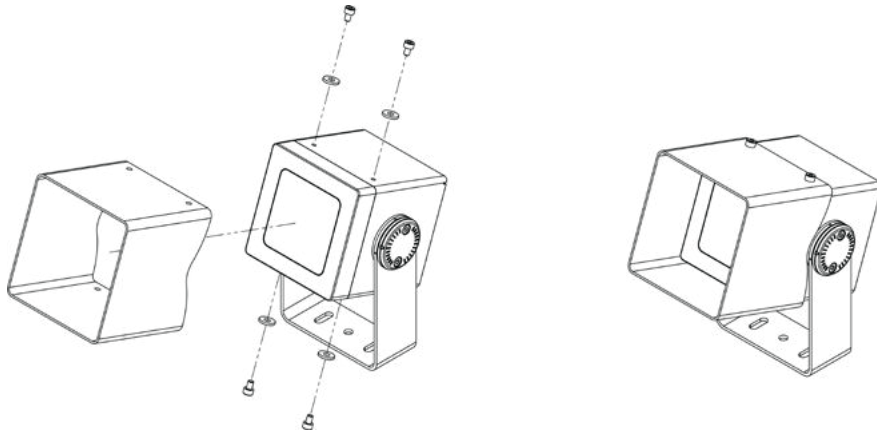
PID COMMANDS

PID	ACTIONS ALLOWED	NAME
0x0060	GET	Device Info
0x00F0	GET/ SET	DMX Start Address
0x0081	GET	Manufacturer Label
0x0082	GET/ SET	Device Label
0x00C0	GET	Software Version Label
0x1000	GET/ SET	Identity Device
0x00E1	GET	DMX Personality Description
0x0080	GET	Device Model Description
0x0051	GET	Parameter Description
0x0200	GET	Sensor Definition

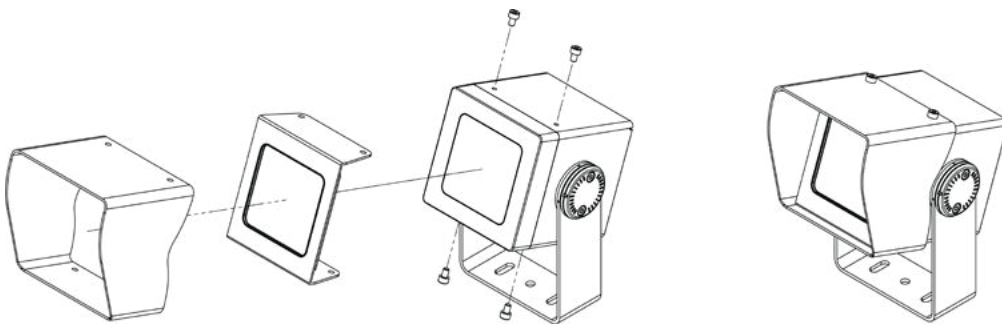
PID	ACTIONS ALLOWED	NAME
0x0201	GET/ SET	Sensor Value
0x0120	GET	Slot Info
0x0121	GET	Slot Description
0x0401	GET/ SET	Lamp Hours
0x0400	GE / SET	Device Hours
0x1001	SET	Reset Device
0x0090	GET/ SET	Factory Defaults
0x8060	GET	Serial Nr.
0x8634	GET/ SET	LOSS 0=H 1=WHI 2=OFF
0x863B	GET/SET	Prior 0=WIRELESS 1=WIRELESS

ANTI-GLARE SHIELD

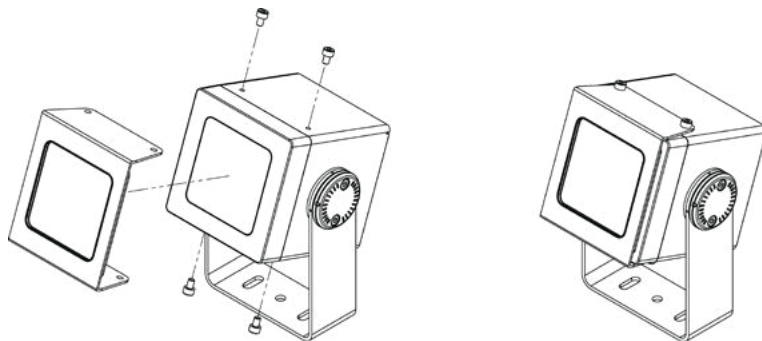
Full Anti-Glare Shield



Half Anti-Glare Shield

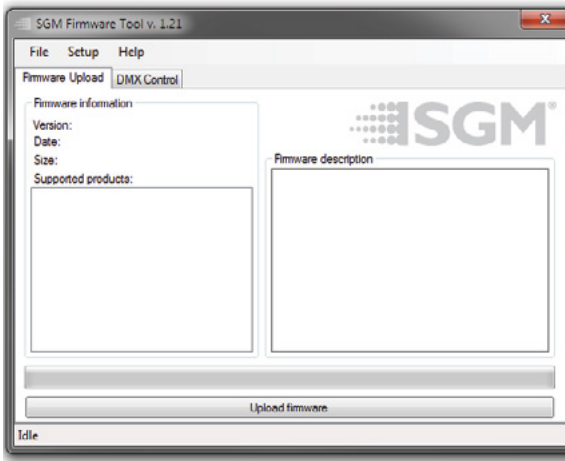


Diffuser

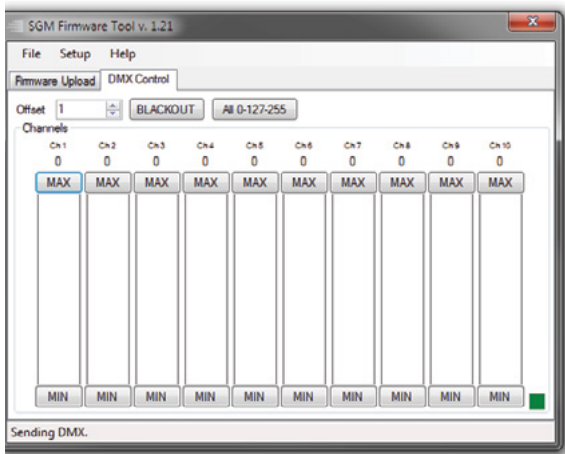


FIRMWARE UPDATES

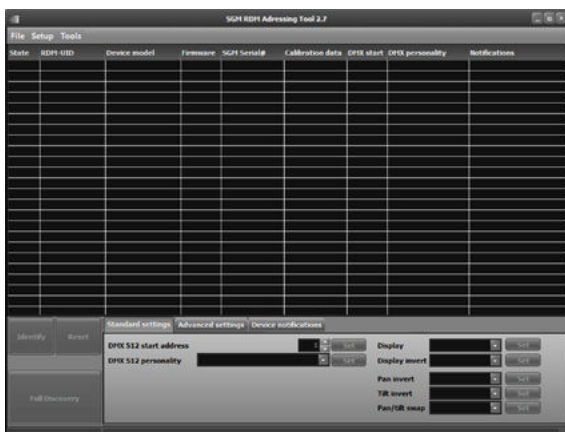
The latest firmware, manuals and the SGM Network Admin tools are all available for free download at www.sgmlighting.com. The SGM Light firmware tool is used to update firmware:



SGM Firmware tool



SGM Firmware tool



SGM Addressing Tool

Fixture firmware version can be identified by:

- Connect either Std or POI uploader cable depending on which is more suitable for the installation
- Launch the SGM RDM Addressing Tool
- Click "Full Discovery" fixture should show in the chart. Firmware will be displayed in the firmware column

To update a fixture with the latest firmware, use an SGM USB POI uploader cable, and a Windows-based computer with the SGM Firmware Tool software installed (available for download at www.sgmlighting.com).

- Download the SGM Firmware Tool software from the SGM website
- Download latest firmware file from product web page on the SGM website
- Connect either Std or POI uploader cable depending on which is more suitable for the installation
- Launch SGM Firmware Tool on a windows PC
- Click "File" then "Open" and navigate to the firmware file needed, select it and click "Open"
- The firmware is now loaded in the uploader, click "Upload Firmware"

The fixture will now update and reboot

The Firmware Tool software offers a simple DMX controller featuring 512 DMX channels for test purposes.

IT IS RECOMMENDED TO KEEP FIRMWARE UPDATED. THE LATEST FIRMWARE VERSION IS ALWAYS AVAILABLE FOR DOWNLOAD UNDER THE RESPECTIVE PRODUCT AT WWW.SGMLIGHTING.COM.

SGM VACUUM TEST KIT

The Vacuum Test Kit is an accessory suitable for all SGM IP-rated fixtures, made for testing the IP integrity upon reassembly.

In order to ensure the IP-rating of the fixture, it's highly recommended that the fixture is always vacuum tested after installing or swapping any part that might compromise the IP-rating, e.g., swapping the front lens.

SGM disclaims liability for any damage occasioned by the non-use, or inability to use, the vacuum test kit after reassembling the fixture.



SGM Vacuum Test Kit

USB - POI UPLOADER CABLE

The SGM USB to DMX cable is an accessory used mainly to update the fixture with the latest SGM firmware. See below how to update the fixture with the latest firmware.

The SGM Uploader cable is also used for controlling the DMX values channel by channel through the Firmware Uploader Tool software (available for download at www.sgmlighting.com).



SGM Uploader cable POI

CLEANING

SGM fixtures with IP65 or IP66-rating do not need any cleaning procedures inside the fixture. However, cleaning the front lens may be needed to achieve the maximum light output after exposure to dust, sand, or dirt. The exterior housing can also be cleaned to get a better look. To maintain adequate cooling, fans must be cleaned periodically.

Whenever necessary, clean the fixture using a soft cloth dampened with a solution of water and a mild detergent. Do not use products that contain solvents, abrasives, or caustic agents for cleaning, as they can cause damage to hardware, cables, and connectors.

The level of cleaning required will vary greatly depending on the operating environment and installation. Therefore, it is recommended to do frequent check-ups the first few weeks of operation to see how often cleaning is necessary.

FIXTURES AND ACCESSORIES

The fixture can be used with a variety of accessories.

Contact your local SGM dealer to get the latest pricing and news about available accessories.

PLEASE NOTE! THE LIST BELOW IS SUBJECT TO CHANGE WITHOUT NOTICE.

ORDERING INFORMATION

The ordering information of the respective product, its variants and accessories can be found on the product pages below:

POI-15 Wash - www.sgmlighting.com

APPROVALS AND CERTIFICATIONS

Conforms to 2014/35/EU: Low Voltage Directive
Conforms to 2014/30/EU: EMC Directive
Conforms to 2011/65/EU: RoHS2 Directive
Conforms to UK SI 2016 No. 1101: The Electric Equipment (Safety) Regulations 2016
Conforms to UK SI 2016 No. 1091: Electromagnetic Compatibility Regulations 2016
Conforms to UK SI 2012 No. 3032: Restriction of the Use of Certain Hazardous Substances
. in Electrical and Electronic Equipment Regulations 2012 (RoHS2)



The information in this document is subject to change without notice.
For the latest information, visit www.sgmlighting.com.

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