USER MANUAL

G-SPOT
G-SPOT POI
MOVING HEADS

Dimensions

805
(31.7)

646
(25.4)

494
(19.5)

144
(5.7)

Min. c/c
764
(30.0)

327
(12.9)

135°   135°

821
(32.3)

270°   270°

470
(18.5)

492
(19.4)

664
(26.2)

370
(14.6)

340
(13.4)

16 (0.63)

37 (1.46)
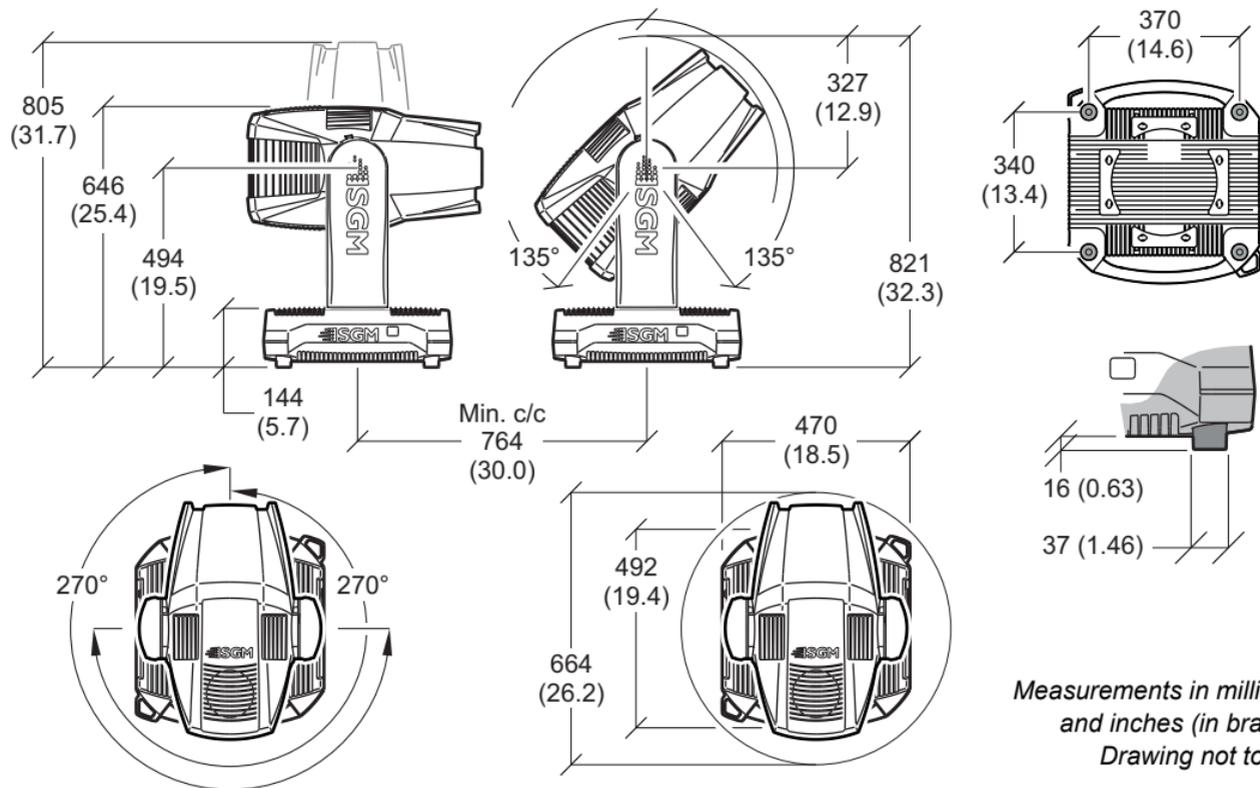
*Measurements in millimetres
and inches (in brackets).
Drawing not to scale.*

G-SPOT
USER MANUAL

The original edition of this document is in English. All other language editions are translations of the original edition.

This edition applies to firmware version 2.01 or later.

Rev. H

Contents

Safety information

⚠️ 📖 *WARNING! Read the safety precautions in this section before unpacking, installing, powering or operating this product.*

The G-Spot is intended for professional use only. It is not suitable for household use. *Impropre a l'usage domestique.*

Review the following safety precautions carefully before installing or operating the fixture.
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 inhérent.**

Preventing electric shock

⚡ *WARNING! Risk of electric shock.*

- Always power off/unplug the fixture before removing covers or dismantling product.

- Ensure that the mains power is off when wiring the fixture to the AC mains supply.

- Ensure that the fixture is electrically connected to earth (ground).

- Do not apply power if the fixture is in any way damaged.

- Do not immerse the fixture in water or liquid.

Preventing burns and fire

 WARNING! *Take measures to prevent burns and fire.*

- Install in a location that prevents accidental contact with the fixture.

- Install only in a well-ventilated space.

- Install at least 0.3 m (12 in.) away from objects to be illuminated.

- Install only in accordance with applicable building codes.

- Ensure a minimum clearance of 0.1 m (4 in.) around the cooling fans.

- Do not paint, cover or modify the fixture.

- Keep all flammable materials away from the fixture.

- Allow the fixture to cool for 15 minutes after operation, before touching it.

CAUTION: Exterior surface temperature after 5 min. operation = 55° C (131° F). Steady state = 65° C (149° F)

Avoid personal injury

> ⚠️ **WARNING!** *Take measures to prevent personal injury.*

- Do not look directly at the light source from close range.

- Take precautions to prevent injury when working at height.

- Ensure that the fixture is always securely fastened with suitable hardware.

- For elevated installations, secure the fixture with suitable safety cables, and always comply with relevant load dimensioning, safety standards and requirements.

Overview

The SGM G-Spot is a multi-environmental fixture with a powerful LED light source, and a virtually unlimited color palette, containing two independent rotating gobo wheels . The fixture offers low power consumption and it is possible to find in 2 different versions:

- IP65-rated (Standard model) - Offers RIFD and can easily be controlled by wired and wireless DMX.
- IP66-rated (POI model) - Specially designed for outdoor installations. The adjustments are made through RDM, as there is no display mounted in the fixture.

Note: See on page 22 for more details in how to install the G-Spot POI.

Parts identification

A : Pan lock
B : Tilt lock
C : Base handle
D : Head fan grill (one of two shown)
E : Display panel (not included in POI model)
F : Safety wire attachment point
G : Fuse
H : DMX in
I : DMX out
J : Power in
K : Power cord
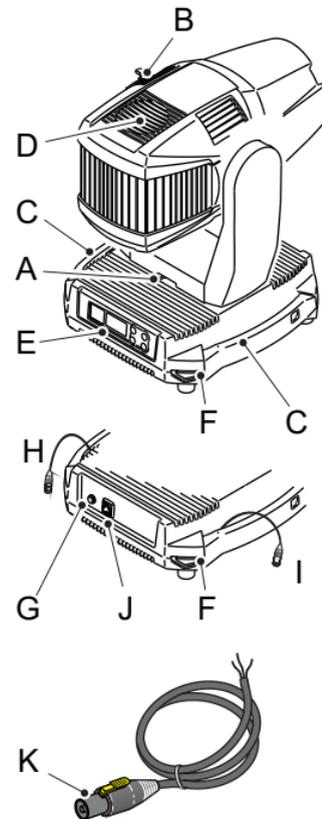
Unpacking

Unpack the fixture and inspect it to ensure that it has not been damaged in transport.

The G-Spot is supplied with:

- User manual.

- One Neutrik TRUE1 power input connector, 2 m (78 in.)

- Two Omega brackets with 1/4-turn fasteners.

The fixture is designed for use in wet locations and is IP65-rated (Standard model), or IP66-rated (POI model). When selecting a location for the fixture, ensure that:

- it is situated away from public throughfares and protected from contact with people.

- it has adequate ventilation.

Transportation

Always use the supplied packaging for transportation and storage.

Release the pan/tilt locks when transporting the fixture. Leaving the pan/tilt locks applied may cause damage to the fixture.

Installation / Rigging

⚠️ **WARNING!** *Always secure elevated fixtures with a safety cable.*

The G-Spot may be installed in any orientation.

Always use two Omega brackets to rig the fixture. Lock each bracket with both 1/4-turn fasteners. The fasteners are locked only when turned fully clockwise.

Always fasten safety cables between the load-bearing support structure and the attachment points on the fixture. The safety cables must be able to bear at least 10 times the weight of the fixture.

CAUTION:

- Always use 2 safety wires.

- Min. safety wire gauge = 5 mm.

- Max. safety wire length (free fall) = 30 cm (11 in.)

- Make sure the slack of the safety wire is at a minimum.

- Never use the carrying handles for secondary attachment.

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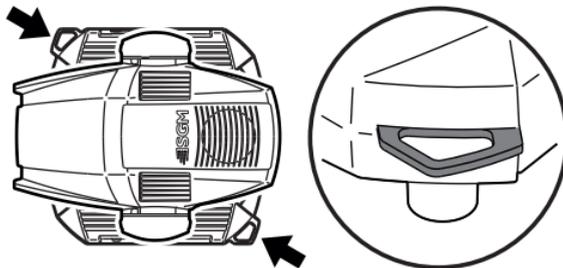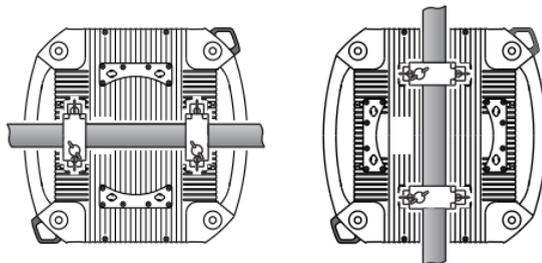
Start the rigging process by blocking the work area below, and make sure the work is performed from a stable platform.

1 Check that the clamps are undamaged and can bear at least 10 times the weight of the fixture. Check that the structure can bear at least 10 times the weight for all installed fixtures, clamps, cables etc.

2 Bolt each clamp securely to an Omega bracket with an M12 / ½" bolt (min. grade 8.8) and lock nut.

3 Align an Omega bracket with two 1/4-turns in the base. Insert the fasteners into the base and turn both levers a full 1/4-turn clockwise to lock. Install the second Omega bracket.

4 Working from a stable platform, hang the fixture on a truss, or other structure. Note the position of the base. The front of the base is to the right, when looking at the display panel, and when the fixture is sitting on the base. Tighten the clamps.

5 Install two safety wires that each can bear at least 10 times the weight of the unit. The attachment points are designed to fit a carabiner.

6 Check that the pan/tilt locks are released (A and B). Verify that there are no combustible materials or surfaces to be illuminated within 0.3 m (12 in.) of the fixture.

7 Check that there is no possibility of head or yoke colliding with other fixtures.
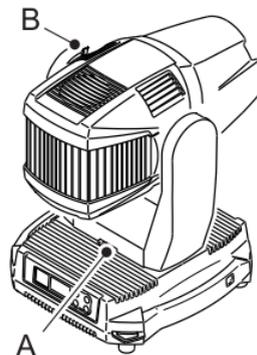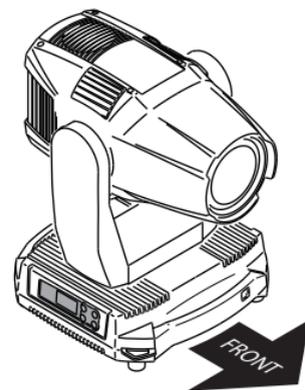
Connecting AC power

The G-Spot can operate on any 200-240V, 50/60 Hz mains power supply.

Connect the fixture to power using a cable with a Neutrik powerCON TRUE1 connector (supplied with the fixture). Connect both DMX in and DMX out cables in order to maintain the fixture IP65.

The fixture must be grounded/earthed and be able to be isolated from AC power. The AC power supply must incorporate a fuse or circuit breaker for fault protection.

- Connect the black wire to live

- Connect the white wire to neutral

- Connect the green wire to ground (earth)

Wire	Color	Symbol	Conductor
■—	Black	**L**	live
■—	White	**N**	neutral
■—	Green	$\perp$ or $\bigoplus$	ground (earth)

| Fuse | Power In | DMX Out | DMX In |
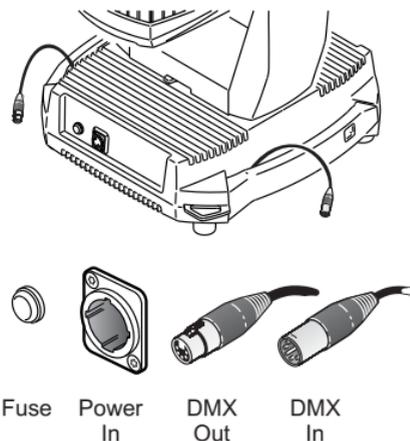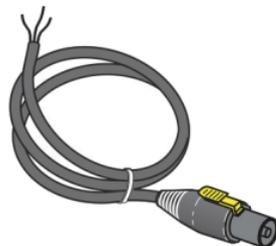
After connecting the G-Spot to power, run the on-board test, using the "Test→LED Test" menu, to ensure that the fixture is functioning correctly. See "Control panel menus" on page 26.

Control panel operations

You can configure individual fixture settings, read out data and view error messages in the graphic display. When the fixture is powered on, it boots and resets, then displays the DMX start address and any status messages.

Please note: In POI versions there is no display mounted in the fixture. The adjustments are made through RDM.

Using the control panel

- Click the arrow buttons to scroll up and down menus.
- Click the OK button to enter a menu or make a selection.
- Press the ESC button to step backwards through the menus.
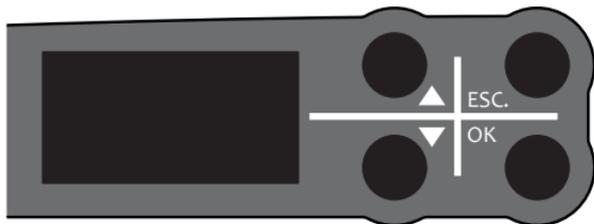
DMX start address

The DMX start address is the first channel used to receive instructions from the controller. For independent control, each fixture must be assigned its own control channels. If you give two fixtures the same address, they will behave identically. Address sharing can be useful for diagnostic purposes and symmetrical control.

Select DMX address using the arrow buttons.

Selecting module (G-Spot or G-Profile)

If you replace the fixture's module in order to switch from a G-Spot to a G-Profile or vice-versa, you need to change the fixture's software settings.

In the Control Menu, go to 'Settings→Service Menu→Fixture Type" and select the fixture you are currently using.

NOTE: To access "Service Menu→Fixture Type", you need to type in the value '0110' under 'Settings→Service Pin".
See "Control panel menus" on page 26 for more details.

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Configuring the fixture using an Android device via RFID

The G-Spot can also be configured wirelessly, via RFID, using the SGM Tool app installed on an Android device that has NFC support, App available in the Google™ Play Store (ISO 15693 and ISO 18000-3 mode 1 compatible, operating on 13.56 MHz ±7k Hz carrier frequency).

SGM Tool App for Android
The SGM tool application features the ability to, readout product information, setting DMX address, setting DMX mode. All functions can be accessed, changed and stored without having the fixture powered on.

Overview by tabs:

[INFORMATION] Product name, DMX address, DMX mode, Running hours, Serial number
[SET DMX ADDRESS] DMX address, Fixture size (DMX footprint), Fixture type, Fixture mode, Auto increase
First make sure the RFID/NFC is enabled on your device, then open the application and you are ready to scan a fixture.

Getting fixture information using Android and RFID

1. Scan fixture.
2. Informations about the fixture is shown including:
• Product name/type.
• DMX address and DMX mode.

• Running hours and serial number.

Setting a DMX address and mode using Android and RFID
   1. Scan fixture or press the menu button on the Android device and choose "Goto DMX addressing".
   2. Go to tab [SET DMX ADDRESS]
   3. Select Fixture type, Mode and whichever you want to Auto increase the address for the next fixture
   4. When all settings is correct, transfer/store the settings to the fixture by holding the device close to the fixtures RFID, when the screen goes green and a sound is played, the settings is transferred and stored.

Using stand-alone operation

Stand-alone operation is where the fixture is not connected to a control device, but is preprogrammed with a series of up to 24 scenes, that play continuously in a loop. This program can be set to run by default whenever the fixture is started.

Manual control / Internal sequence editor

The editor offers the ability to adjust all DMX parameters of the fixture. Each scene has its own DMX settings. Each scene has a definable fade-in time, for the transition from the previous scene, and a wait (static) time, each with a fade time up to 4000 seconds and a wait time up to 4000 seconds.

The 24 scenes can be preset directly from the editor using the control panel.

The editor can also capture DMX values from a controller utilizing the 'Control-channel' (See "DMX protocols" on page 42) or capture live DMX values directly using the editor on the fixture.

To set a single static scene, set the fade time of scene 2 to 0.0 seconds, this will keep the fixture running scene 1.

To set a sequence of less than 24 scenes, set the fade time of the scene after the last scene to 0.0 seconds, this will keep the fixture looping scene 1 to the scene before the scene with 0.0 seconds fade time.

The copy/paste function offers the ability to create replicas of a previous created scene.

Locating the editor:
• Press OK to enter the menu.
• Navigate to "Manual" and press enter.
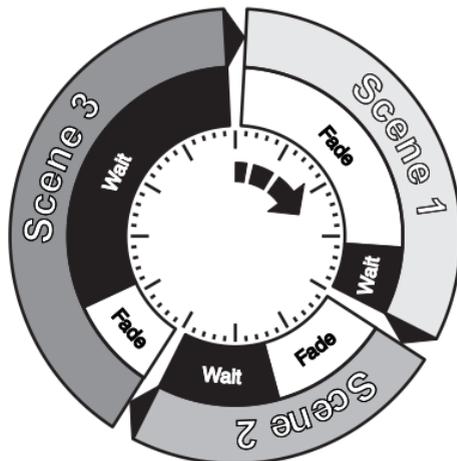
Using the editor

In the manual menu the following menus will be available:

• Editor
• Run Program
• Stop Program
• Run on power on
• Capture DMX

Editor

In the "Editor" menu you have the following options:
• Scene - Press OK and choose a scene (1 to 24) confirm with OK.
• Wait Time - Press OK and set the wait time (0 to 4000 seconds) confirm with OK.
• Fade Time - Press OK and set the fade time of the selected scene (0 to 4000 seconds) confirm with OK.
• Copy Scene - Press OK to copy the selected scene to the clipboard.
• Paste Scene - Press OK to paste copied scene from the clipboard to the selected scene.
• Clear Scene - Press OK to clear the selected scene and set the default settings.
• All the controllable features will be listed below "Clear Scene".

To change a value of a feature:
• Select the feature to change.
• Press OK and change the value.
• Confirm with OK.

Channels operating in 8 bit mode will allow you to set a value from 0 to 255.
Channels operating in 16 bit mode will you allow to set a value from 0 to 65535.

Connecting to a DMX control device

The G-Spot is controllable using a DMX control device and it can be connected using either a DMX cable or via the fixture's built-in LumenRadio CRMX wireless receiver system.

If using a cabled DMX system, connect the DMX in cable (with male 5-pin XLR plug) and out cable (with female 5-pin XLR plug) to the DMX data link. Terminate the DMX out cable of the last fixture in the data link. For outdoor installations, use only IP-rated XLR connectors suitable for outdoor use.

Configuring the device for DMX control

About DMX

The G-Spot can be controlled using signals sent by a DMX controller on a number of channels (which varies depending on the DMX mode that has been set).

The first channel used to receive data from a DMX control device is known as the DMX start address. Each G-Spot must have a DMX start address set. For example, if a fixture has a DMX address of 10 and it is in 3-channel DMX mode, then it uses channels 10, 11, and 12. The following device in the DMX chain could then be set to a DMX address of 13. If two or more DMX devices of the same type have the same DMX address, then they will mimic each other's behavior. Incorrect settings will result in unpredictable responses to the lighting controller.

Setting the DMX address

The DMX address can be seen on the OLED display. To change the address setting, press the up and down arrows. When the desired address is displayed, press 'OK' to save the setting. For your convenience, the suggested DMX address of the next device is displayed to the right. Note that channel spacing is determined by the DMX mode.

See the "DMX protocols" on page 42 for specific DMX control values.

LED refresh rate (Frequency)

About LED refresh rate

When using LED lighting with cameras, flickering can occur due to incompatible frequency settings which means the LEDs and the cameras is not synchronised.

In order to avoid flickering and horizontal banding (rolling shutter) the refresh rate (frequency) can be adjusted in order to achieve flicker-free performance.

Setting the LED refresh rate (Frequency) via DMX

The G-Spot offers the ability to adjust the refresh rate (frequency) of the LEDs via DMX.

By utilizing the 'Control channel' (channel 31 in standard mode, channel 46 in extended mode).
See "DMX protocols" on page 42 for details.
The refresh rate can be set between 100,00 kHz and 1,41 kHz.

It is recommended to have the G-Spot configured to operate the default refresh rate by setting the 'Control channel' to 0 (0%) (factory default settings) by DMX whenever possible to maintain the best possible dimming performance.

The refresh rate settings are <u>only</u> active as long as the value on the 'Control channel' is hold. The value should be stored as a preset or as the default value for the 'Control channel' in the control device.

Be aware that the 'Control channel' is also used for fixture reset functions and DMX capture for the internal sequence editor.

When adjusting a custom value, you want to choose a frequency high enough to avoid flickering and/or horizontal banding (rolling shutter), but low enough to maintain a good dimming performance.

Since there are differences between camera models, exposure settings etc., the optimal refresh rate settings will differ.
In order to achieve the best result, adjust the refresh rate through a preview monitor with a feed from the cameras.

POI Permanent Outdoor Installation

The G-Spot comes in a special POI version designed for permanent outdoor installation and is IP66-rated.
POI versions are designed for use in maritime and offshore environments, as per the C5-M corrosion-resistance class.

Physical differences
The POI version differs from the standard version by having fixed-chassis mounted power and DMX cables and heavy-duty cable glands. The display / control panel and XLR DMX connectors, has been removed.

Configuration
The POI version is configured exclusively via RDM (Remote Device Management).
DMX start address, DMX mode etc. are configured via RDM. See "RDM" on page 24.

LED indicator

An LED indicator is located on the base, next to the mains power cable.
This LED indicator has two colors and three stages; on, flashing or off.

- Green static: Fixture is on and receiving DMX.
- Green flashing: Fixture is on and no DMX is received.
- Red flashing: An error message is stored, review via the SGM Service Tool. Contact SGM support for diagnostic help.
- Off: Fixture is off or indicator LED (display) is set to off or auto dimming.

Connecting DMX and AC power

DMX in and DMX out are in the same cable. See description on the right.
Power is wired as the standard version. See "Connecting AC power" on page 14.
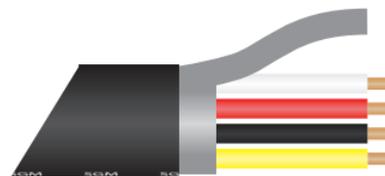
Wire	Color	Conductor
	Shield	Ground
	White	DMX IN: Data -
	Red	DMX IN: Data +
	Black	DMX OUT: Data -
	Yellow	DMX OUT: Data +

POI connection diagram

1
2
xx

AC POWER

5 PIN XLR

DMX Controller

DMX termination

120 Ohm

XLR pinout
Pins 1, 2 and 3

DATA GND

DATA -

DATA +

AC POWER

AC POWER

DMX cable

Junction box

Shield / GND
White / DMX in / Data -
Red / DMX in / Data +

Shield / GND
Black / DMX out / Data -
Yellow / DMX out / Data +

DMX cable

Junction box

Shield / GND
White / DMX in / Data -
Red / DMX in / Data +

Shield / GND
Black / DMX out / Data -
Yellow / DMX out / Data +

23
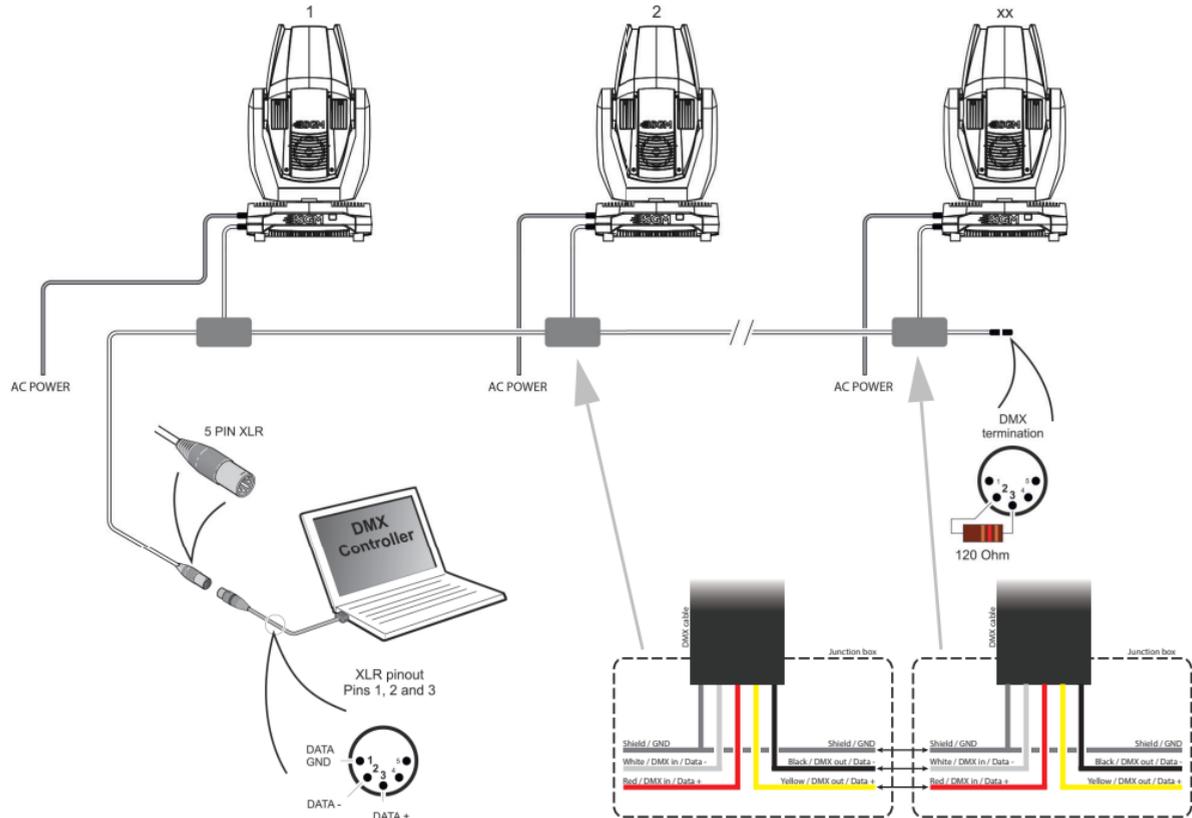
RDM

The G-Spot features support for various RDM functions.
RDM (Remote Device Management) is a protocol enhancement to USITT DMX512 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. See the table below for supported RDM functions.

The controller communicates with the fixtures to show only the available options for each RDM function.

The G-Spot supports and enable RDM, Remote Device Management, as per the ANSI E1.20 standard.

PID	Actions Allowed		Name	PID	Actions Allowed		Name
0x00F0	GET	SET	DMX Start Address	0x0080	GET		Device Model Description
0x00E0	GET	SET	DMX Personality / Mode	0x0400	GET	SET	Device Hours
0x00E1	GET		DMX Personality Description	0x0401	GET		Lamp Hours
				0x0051	GET		Parameter Description
0x1000	GET	SET	Identify				
0x1001		SET	Reset Device	0x0501	GET	SET	Display Level, 0=OFF, 1 and above=ON
				0x0500	GET	SET	Display Invert
0x0200	GET		Sensor Definition				
0x0201	GET	SET	Sensor Value	0x8626		SET	Fan 0=AUTO, 1=LOW, 2=HIGH, 3=FULL
0x0082	GET	SET	Device Label	0x0090		SET	Factory Defaults
0x0081	GET		Manufacturer Label				

Sensors

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

Name	Sensor Type	Name	Sensor Type
Main PCB Temp.	Temperature	CRMX signal strength	Other
SMPS PCB	Temperature	Humidity base	Other
Pan PCB	Temperature	Humidity head	Other
Tilt PCB	Temperature		
Gobo PCB	Temperature	Fan 1 LED RPM	Velocity
Zoom PCB	Temperature	Fan 2 LED RPM	Velocity
Base	Temperature	Fan base RPM	Velocity
Head	Temperature	Fan 2 head RPM	Velocity
Red LED	Temperature	Fan zoom RPM	Velocity
Green LED	Temperature	Fan framing RPM	Velocity
Blue LED	Temperature		
Framing PCB	Temperature		

Control panel menus

Level 1	Level 2	Level 3	Level 4	Info
DMX MODE	STANDARD			
	EXTENDED			
INFO	GENRAL INFO	PRODUCT:		
		SN:		
		RDM LABEL		
		RDM ID		
	SOFTWARE VERSION	MAIN:		
		SMPS:		
		PAN:		
		TILT:		
		GOBO:		
		ZOOM:		

Level 1	Level 2	Level 3		Level 4	Info
INFO **(continued)**	TIMERS	RED	D: H:		
		GREEN	D: H:		
		BLUE	D: H:		
		RUNNING HOURS	D: H:		
	DMX VIEW	001 -			
		↓			
		507 -			
	TEMPERATURES	LED	R: G: B:		
		SMPS			
		PAN:	TILT:		
		GOBO:	FOCUS:		
		BASE:	HEAD:		
		HUMIDITY	B: H:		
	SENSORS				

Level 1	Level 2	Level 3		Level 4	Info
INFO **(continued)**	FANS	LED FAN 1:	rpm		
		LED FAN 2:	rpm		
		HEAD:	rpm		
		BASE:	rpm		
	LOG	FIRMWARE:			
		BUILD:			
		BUILD:			
		UPTIME:	D: H: M: S:		
	ERRORS	SMPS		ERROR DETAILS	
		PAN			
		TILT			
		GOBO			
		ZOOM			

Level 1	Level 2	Level 3	Level 4	Info
SETTINGS	WIRELESS DMX	LOG OFF		
		STATUS	SIGNAL STRENGHT % CRMX PAIRD: RDM ACTIVE: DMX ACTIVE: CRMX RATE Hz	
		ENABLE/DISABLE		
		CRMX → DMX		

Level 1	Level 2	Level 3	Level 4	Info
SETTINGS **(continued)**	DIMMING CURVE	LINEAR () GAMMA CORRECTED (X)		
	INVERT PAN ()			
	INVERT TILT ()			
	SWAP PAN TILT ()			
	FLIP DISPLAY ()			
	DISPLAY OFF ()			
	FAN MODE	STANDARD SILENT MAX POWER ALWAYS 100%		

Level 1	Level 2	Level 3	Level 4	Info
SETTINGS (continued)	CALIBRATION	PAN HOME	CALIBRATION $\longrightarrow$ XXXXX PAN POS XXXX - REV. X.XX	
		TILT HOME	CALIBRATION $\longrightarrow$ XXXXX PAN POS XXXX - REV. X.XX	
		GOBO SELECT	CALIBRATION $\longrightarrow$ XXXXX	
		EFFECT WHEEL	CALIBRATION $\longrightarrow$ XXXXX	

Level 1	Level 2	Level 3	Level 4	Info
SETTINGS **(continued)**	CALIBRATION (continued)	FROST	CALIBRATION ⟶ XXXXX	
		PRISM	CALIBRATION ⟶ XXXXX	
		IRS	CALIBRATION ⟶ XXXXX	
		ZOOM	CALIBRATION ⟶ XXXXX	
		FOCUS	CALIBRATION ⟶ XXXXX	
	SERVICE PIN			
	SERVICE MENU	FIXTURE TYPE		
		DEBUG		

Level 1	Level 2	Level 3	Level 4	Info
SETTINGS (continued)	FACTORY DEFAULT	FACTORY DEFAULT SET		
TEST	OFF			
	AUTOMATED TEST			
	LED TEST	TESTING RED 2		
		TESTING RED 1		
		TESTING BLUE 2		
		TESTING BLUE 1		
		TESTING YELLOW		
		TESTING GREEN		
	DISPLAY TEST			

Level 1	Level 2	Level 3		Level 4	Info
RESET	PAN TILT				See note 1
	EFFECT MODULE				
	ZOOM FOCUS MODULE				
	ALL				
MANUAL	EDITOR	SCENE		1 → 24	
		WAIT TIME	Seconds	0 → 4000	
		FADE TIME	Seconds	0 → 4000	
		COPY SCENE			
		PASTE SCENE			
		CLEAR SCENE			
		SHUTTER			
		DIMMER			

Level 1	Level 2	Level 3	Level 4	Info
MANUAL **(continued)**	EDITOR (continued)	RED		
		GREEN		
		BLUE		
		CTC		
		PAN		Center = 32767
		TILT		Center = 32767
		GOBO 1		Select
		GOBO 1 ROT		Rotation
		BLADE 1 ANG		Angle of blade 1
		BLADE 2 IN		
		BLADE 2 ANG		Angle of blade 2
		BLADE 2 IN		
		BLADE 3 ANG		Angle of blade 3

Level 1	Level 2	Level 3	Level 4	Info
MANUAL	EDITOR	BLADE 3 IN		
(continued)	(continued)	BLADE 4 ANG		Angle of blade 4
		BLADE 4 IN		
		BLADE ANG		Module rotation
		EFFECT WHEEL		
		IRIS		
		PRISM		
		FROST		
		ZOOM		
		FOCUS		
	RUN PROGRAM			
	STOP PROGRAM			

Level 1	Level 2	Level 3		Level 4	Info
	RUN ON POWER ON	Enable by pressing OK			( ) / (X)
		Disable by pressing OK			
	CAPTURE DMX	SCENE		1 → 24	
		WAIT TIME	Seconds	0 → 4000	
		FADE TIME	Seconds	0 → 4000	
		CAPTURE DMX			Capture DMX values of all channels from DMX input

1. If the G-Spot is subjected to extreme exposure, the fixture might not reset correctly. If this happens, the fixture will automatically heat up the gobo bearings at maximum light output for approx. five minutes and attempt to reset the fixture again. Should this not resolve the issue, disconnect the fixture from power, and power it back on again to repeat the heat-up procedure. Should this not solve the issue, contact your local SGM distributor or SGM Technical Support. See **http://sgmlight.com/service-aftersales/** for more details.

Gobo replacement

Identification of gobo wheel

Gobo Wheel 1
(Closest to front lens)

Gobo Wheel 2
(Closest to light source)

Magnet
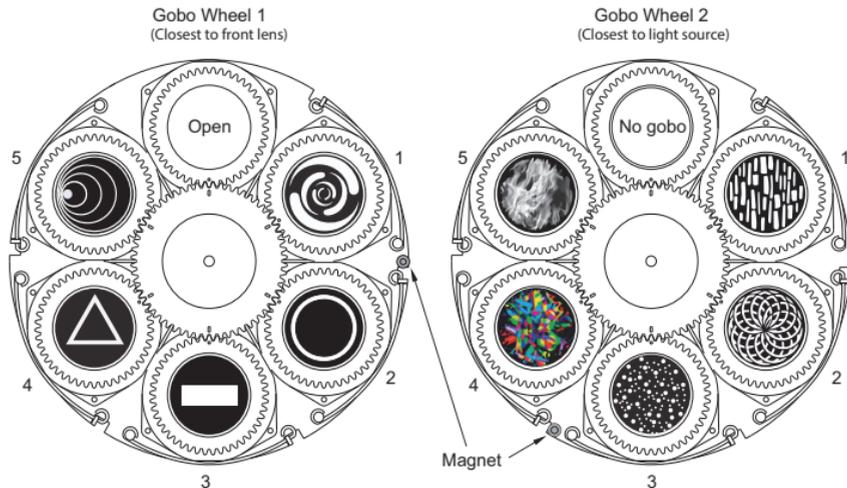
Gobo Wheel 1:		
No.	*Description*	*Part No.*
Open	Open gobo	37000001
1	Spin cycle	37005002
2	Ring	37005007
3	Bar	37005008
4	Triangle	37005009
5	Concentric	37005004

Gobo Wheel 2:		
No.	*Description*	*Part No.*
No gobo	No gobo	37000001
1	Breakup bricks	37005006
2	Spiral leaf	37005010
3	Dots	37005003
4	Kaleidoscope gems	37002001
5	Fire up close	37005001

Replacing rotating gobo

To replace one or more gobos:

- Disconnect the fixture from power and allow to cool.

- Position the head and apply the tilt lock.

- Before removing one of the rear head covers, identify where gobo wheel covers 1 and 2 are positioned. When the head of the fixture is facing upwards, cover gobo wheel 2 is located at the side of the head corresponding to the pan lock (A). See figure below.

- Remove the gobo wheel cover for access to the gobo wheel.

- Turn the gobo wheel until the gobo you want to replace is accessible.

- Unhook the end of the spring and turn it upwards. Pull the gobo holder out of the gobo wheel.

TORX 20
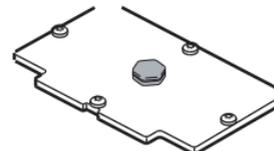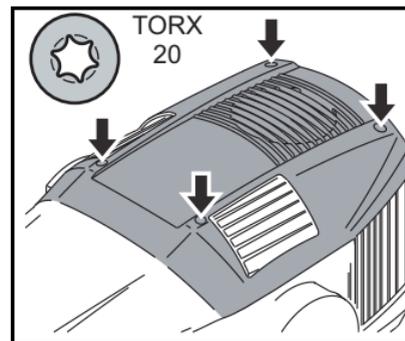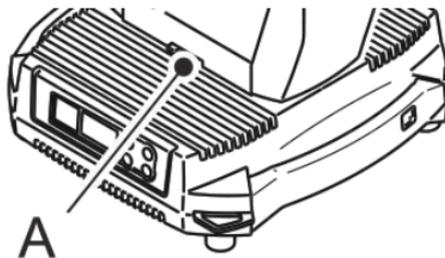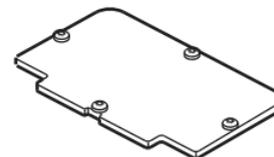
Cover Gobo Wheel 1

Cover Gobo Wheel 2

How to replace a gobo in a gobo holder

- Place gobo with silver side towards the light source.

- Align index markers on the gobo and the gobo holder as shown below.

- Insert the gobo holder and align it with the index marker on the gobo wheel as shown below. If necessary, continue replacing gobos one by one as described above. If no further service is necessary, reinstall the gobo wheel cover. To maintain the fixture's IP65 rating, it is impor-tant to fasten the gobo covers to 1 Nm.

TORX 20   1 Nm
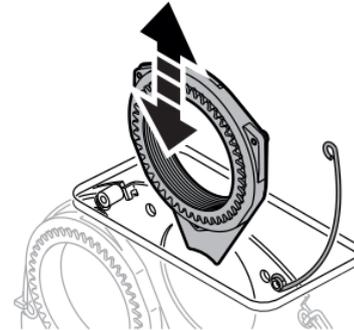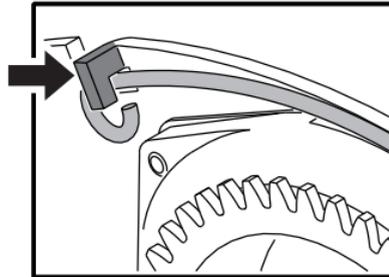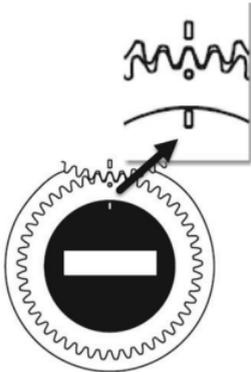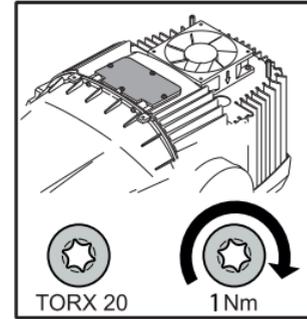
Maintenance

When cleaning the fixture, do not use any product that contains abrasives or solvents that can damage plastic or painted surfaces. Use a clean cloth with water and a standard household cleaner.

To maintain adequate cooling, fans must be cleaned periodically.

Upgrading the firmware

The firmware installed on the fixture can be identified using the "Info→Software version" menu. We recommend that you keep your fixture's firmware up-to-date. Visit **http://www.sgmlight.com** to download the latest firmware.
To perform firmware updates, you need a Windows-based personal computer and a SGM USB 5-Pin-XLR upload cable (available from your SGM distributor).

Cleaning

To maintain optimal performance, regular cleaning is essential. Cleaning schedules will vary greatly depending on the operating environment, and the installation should therefore be checked at frequent intervals within the first few weeks of operation to see whether cleaning is necessary. This procedure will allow you to assess cleaning requirements in your particular situation. If in doubt, consult your SGM dealer for a suitable maintenance schedule.

Setting the OLED display saver

By default the OLED display dims down after a short period when the control panel is not in use, but it can also be set to turn off completely. Pressing any key will always turns on the display or restore it to normal brightness. To change the display saver, use the "Settings→Display Off" menu.

NOTE: To avoid the risk of display deterioration caused by long term use in permanent installations, it is recommended to use the "Settings→Display Off" setting.

DMX protocols

Please visit www.sgmlight.com to get the latest DMX protocol.

Full Color Calibration and Color Temperature Correction

24 and 30 Channel Mode: Features full color calibration when you mix 2 or 3 colors to ensure uniform color between products. Adjusting 1 color does not activate full color calibration.

24 and 30 Channel Mode: Features full color temperature correction when channel 6 (in 24 channel mode) or channel 10 (in 30 channel mode) are at DMX value 5 or higher. When the value is below 5, the fixture runs in RAW mode.

Effects

Two independent rotating gobo wheels

The two independent rotating gobo wheels has five slots plus one open position on each to control the shape of emitted light. Each gobo is indexable with bi-directional rotation. The standard gobo set includes both breakup patterns, geometric gobos and full colored gobos.

Effect wheels

The G-Spot has two effect wheels for generating optical effect. The two effect wheels operate as an extension to one another for achieving continuous animation effect.

High-precision pan and tilt

The G-Spot has a 16-bit pan and tilt control, with a 540° pan and 270° tilt movement with feedback.

Ultra high-speed strobe effect

The ultra high-speed strobe effect (1-50 Hz) introduces instant color control and the possibility to strobe between two or more colors at any speed. Random strobe and pulse effects can be generated with variable speed.

Prism

4-facet rotating prism.

Frost

The soft high-quality frost filter is variable from 0% to 100%.

Fixtures and accessories

Included items

Two Omega brackets with 1/4-turn fasteners
2 m power cable with Neutrik TRUE1 power connector
User manual

Ordering information

G-Spot Moving Head, Std BL ....Order no: 80021002
G-Spot Moving Head, Std WH...Order no: 80021005
G-Spot Moving Head, Std CU ....Order no: 80021009
G-Spot Moving Head, POI BL ....Order no: 80021052
G-Spot Moving Head, POI WH..Order no: 80021055
G-Spot Moving Head, POI CU...Order no: 80021059

SGM USB uploader cable ....Order no: 83062011
2 m power cable with Neutrik TRUE1 power connector ....Order no: 07860040
Flight case (1 fixture)...Order no: 82051001

APPROVALS AND CERTIFICATIONS

Conforms to .... 2004/108/EC: EMC Directive
Conforms to .... 2006/95/EC: Low Voltage Directive
Conforms to .... 2011/65/EU: RoHS2 Directive
Conforms to .... UL Std.1573
Certified to .... CSA E60598-1:02, Ed: 2
Certified to .... CSA-E598-2-17-98, Ed: 1

The information in this document is subject to change without notice

User's notes