



SDE Lighting Sixty Scan

1. GETTING STARTED

What's In The Box?

- SDE Lighting Sixty Scan
- 5ft IEC power cable
- User Manual

Congratulations on your purchase of the future of lighting! Now that you have a Sixty Scan you should carefully unpack the box and check the contents to ensure that all pieces are present and in good condition. If anything looks as if it has been damaged in transit, notify the shipper immediately and keep the packing material for inspection.

Powering Up

All fixtures must be powered directly from a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch.

All fixtures must be connected to circuits with a working Ground.

SAFETY PRECAUTIONS

- ALWAYS make sure that you are connecting to the proper voltage.
- This product is intended for indoor use only. To prevent risk of fire or shock, do not expose fixture to rain or moisture.
- Make sure there are no flammable materials close to the unit while operating.
- ALWAYS disconnect from the power source before replacing fuse and be sure to replace with same fuse size and type.
- ALWAYS secure fixture using a safety chain. NEVER carry the fixture by its cord. Use its carrying handles.
- DO NOT operate at ambient temperatures higher than 113°F (45°C).
- In the event of a serious operating problem, stop using the unit immediately. NEVER try to repair the unit by yourself.
- NEVER connect the device to a dimmer pack.
- Avoid direct eye exposure to the light source while it is on.

ATTENTION There are no user serviceable parts in the unit. Do not open the housing or attempt any repairs yourself. In the event your unit may require service, please contact SDE Lighting at support@sdelighting.com.

Fuse Replacement

With a flat head screwdriver, wedge the fuse holder out of its housing. Remove the blown fuse from its holder and replace with exact same type fuse. Insert the fuse holder back in its place and reconnect power.

2. The Sixty Scan

FEATURES

- High Performance Mobile DMX Scanner with 1 60W LED Source
- 7 Colors + White
- 7 Rotating Gobos + Open
- 9 DMX Channels
- 3- Button Menu System with LED Display
- 3 Operating Modes: DMX, Master/Slave, Sound Active
- Sound Sensitivity Knob and microphone
- Built in Lighting Programs
- Manual Focusing Lens
- Gobo Shake effect
- Strobe effect in every color
- 13-degree beam angle
- Dual-Fan cooled
- Hanging Bracket Included
- Safety Rope Eyelet

3. SETUP

To run light shows you can use a DMX-512 controller or run shows on two or more fixtures set to master/slave operating mode. The combined number of channels required by all the fixtures on a link determines the number of fixtures that can be supported.

Fixtures on a DMX link must be daisy chained in one single line. Connecting more than 32 fixtures may result in deterioration of the digital DMX signal. The maximum recommended cable-run distance is 1640 ft.

The maximum recommended number of fixtures on a single link is 32.

To link fixtures together you'll need DMX cables. You should always use data grade cables that can carry a high quality signal and are less prone to interference.

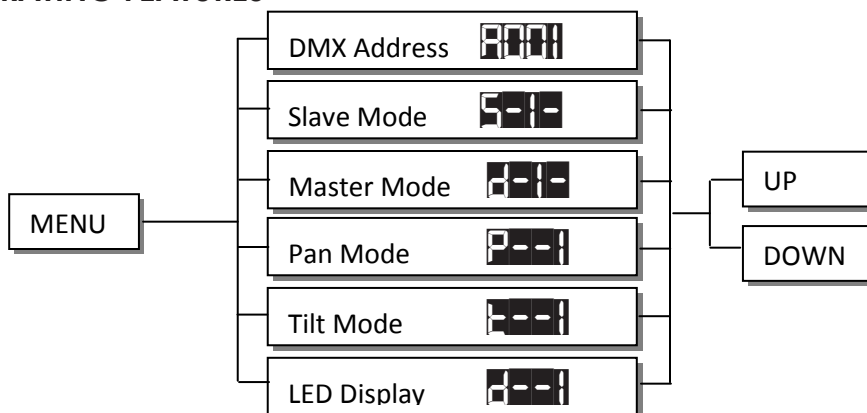
Standard microphone XLR cables will work, but are not designed for data transmission, and could cause continuity issues.

OVERHEAD RIGGING requires extensive experience, including calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the device. If you lack these qualifications do not attempt the installation yourself, but instead use a professional structural rigger.

Before rigging make sure the installation area can hold a minimum point load of 10 times the device's weight. Mount the device using an appropriate clamp and always install a safety-rope that can hold at least 12 times the weight of the fixture.

4. OPERATING FEATURES

Menu



When you first power up the fixture **05-** will display as the fixture goes through a self-test mode. Pressing the MENU button changes through the various Menu options. Up and Down is used to change the options within the separate menu settings.

Master/Slave

The master/slave operation enables several fixtures to be synchronized and controlled by one master device.

- 1.) Use standard DMX cables to daisy chain your units together via the DMX connector on the rear of the units
- 2.) Choose a unit to function as the Master. Select **4-1-** for sound active, **4-2-** for slow room scan, **4-3-** for use with a remote (sold separately). The master unit must be the first unit. Finally, chain the units together using DMX cable.
- 3.) Select slave units by using the **<UP>/<DOWN>** keys to reach **5-1-** in the Slave menu for identical movement, **5-2-** for reverse pan, **5-3-** for reverse pan and tilt, **5-4-** for reverse tilt, and they will react with the Master.

DMX Mode:

*The Sixty Scan will automatically detect whether DMX 512 data is received. If the data is received the display will show **0000**. If there is no data it will show **0000***

- 1.) DMX mode appears as **0000** on the LED Readout. Use the **<UP>** and **<DOWN>** buttons to choose a channel between **0000** and **0512**. Fixtures with the same DMX channel will operate similarly.

Other Settings (Applies in all modes):


Pan Reverse:

Select  from the control panel, to have the mirror pan in reverse.

Tilt Reverse:

Select  from the control panel, to have the mirror tilt in reverse.

LED Display:

Select  from the control panel, the LED menu display will turn off after approximately 5 seconds.

DMX Channels

Channel 1 – Pan (Horizontal Movement)

Value – 0-255, 128 – Center Gradual mirror adjustment from left to right

Channel 2 – Tilt (Vertical Movement)

Value – 0-255, 128 – Center Gradual mirror adjustment from up to down

Channel 3 – Color

Value		Color
0	15	White (Open)
16	31	Dark Blue
32	47	Orange
48	63	Yellow
64	79	Pink
80	95	Light Blue
96	111	Green
112	127	Magenta
128	255	Rainbow Effect(Slow – Fast)

Channel 4 – Gobo

Value		Gobo
0	7	Open
8	15	Gobo 1 “Broken Glass”
16	23	Gobo 2 “Star”
24	31	Gobo 3 “Pinwheel”
32	39	Gobo 4 “Small Circles”
40	47	Gobo 5 “Sun”
48	55	Gobo 6 “Target”

56	63	Gobo 7 "3 Large Circles"
64	71	Open Shake
72	79	Gobo 1 Shake
80	87	Gobo 2 Shake
88	95	Gobo 3 Shake
96	103	Gobo 4 Shake
104	111	Gobo 5 Shake
112	119	Gobo 6 Shake
120	127	Gobo 7 Shake
128	255	Gobo Wheel Rotation (Slow – Fast)

Channel 5 – Gobo Rotation

Value		Feature
0	15	No Rotation
16	135	Clockwise Gobo Rotation (Slow – Fast)
136	255	Counter-Clockwise Gobo Rotation (Fast – Slow)

Channel 6 – Shutter/Strobe

Value		Feature
0	7	Blackout
8	15	Shutter Open
16	131	Strobe (Slow – Fast)
132	139	Shutter Open
140	180	Shutter (Slow Open – Fast Close)
181	189	Shutter Open
190	231	Shutter (Fast Open – Slow Close)
232	239	Reset
240	247	Random Strobe
248	255	Shutter Open

Channel 7 – Dimmer

Value 0-255

Dimmer Control (0% - 100%)

Channel 8 – Built-in Macro Movement

Value		Feature
0	7	No Movement
8	25	Movement 1
26	43	Movement 2
44	61	Movement 3
62	79	Movement 4
80	97	Movement 5
98	115	Movement 6

116	133	Movement 7
134	151	Movement 8
152	169	Movement 9
170	187	Movement 10
188	205	Movement 11
206	223	Movement 12
224	241	Movement 13
242	255	Movement 14

Channel 9 – Macro Movement Speed
Value 0-255 Movement Speed (Slow-Fast)

5. APPENDIX
Keeping Your Sixty Scan As Good As New

The Sixty Scan you’ve received is well tested and road worthy, and as long as you take care of it, it will last. You should always keep the fixture clean, especially if you are using it in an environment with a lot of dust and dirt. Cleaning the manual focus lens exterior routinely with a suitable glass cleaner will help improve the quality of light output. Please use a moist lint-free cloth.

In transit, keep the Sixty Scan in a case to minimize wear and tear.

Returns

Like any complex piece of equipment designed and built by humans, manufacturing errors can cause a problem. If you find yourself with a fixture that isn’t behaving like it should, you’ll need to obtain a Return Merchandise Authorization (RMA).

Just send an email to support@sdelighting.com, and we’ll issue you an RMA. Then, you’ll need to send the unit to us using a pre-paid shipping method that can be tracked. We suggest USPS or UPS.

Make sure you carefully pack the fixture for transit, and when possible, use the original box & packing for shipping.

When returning your fixture for service, be sure to include the following:

- 1.) Your contact information (Name, Address, Phone, Email address).
- 2.) The RMA# issued to you
- 3.) A brief description of the problem/symptoms.

We will, at our discretion, repair or replace the fixture. Please know that any shipping damage that occurs in transit to us is the customer’s responsibility.

Technical Specs

Weight & Dimensions	
Length	16 inches (410 mm)
Width	8 inches (200 mm)
Height	6 inches (150 mm)
Weight	17 lbs (7 kg)
Power	
Operating Voltage	120VAC, 60 Hertz
Fuse	4A 125V
Power Consumption	90W
Light Source	
LED	1 x 60w White LED, 50k Hours
Optical	
Beam Angle	13 degrees
Luminous Intensity	9,200 Lux @ 1m
Thermal	
Max. Operating Temp.	113 degrees F (45 degrees C)
Control	
Protocol	DMX-512
DMX Channels	9
Input	3-pin XLR Male
Output	3-pin XLR Female
Other Operating Modes	Standalone, Master/Slave, Sound Active
Warranty	1-year limited warranty; does not cover malfunction caused by user damage.