

Instruction Manual

SOLAR 17R

(041801)



Unpacking: Thank you for purchasing Solar 17R. Every unit has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit has arrived intact. In the case damage has been found or parts are missing, please contact the manufacturer or your dealer for further instructions. Do not return this unit to your dealer without first contacting.

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE POWERING OR INSTALLING THE FIXTURE. SAVE IT FOR FUTURE REFERENCE.

Warning! To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

PLEASE consider that damages caused by manual modifications to the device are not subject to warranty.

Caution! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself; doing so will void your manufacturer's warranty. In the unlikely event your unit may require service please contact the manufacturer or your dealer.

PLEASE recycle the shipping carton when ever possible.

General Instructions: To optimize the performance of this product, please read these operating instructions carefully to familiarize you with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit.

Safety Precautions

- To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
- Do not spill water or other liquids into or on to your unit.
- Be sure that the local power outlet match that of the required voltage for your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken. Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.
- Never operate this unit when it's cover is removed.
- Never plug this unit in to a dimmer pack.
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit, if it becomes damaged.
- This unit is intended for indoor use only; use of this product outdoors voids all warranties.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point they exit from the unit.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See "Cleaning" for details.
- Heat -The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances

(including amplifiers) that produce heat.

The fixture should be serviced by qualified service personnel when:

- A. The power-supply cord or the plug has been damaged.
- B. Objects have fallen, or liquid has been spilled into the appliance.
- C. The appliance has been exposed to rain or water.
- D. The appliance does not appear to operate normally or exhibits a marked change in performance.

Technical Specifications

Electrical

Power supply:.....electronic auto-ranging

Input voltage range:.....supply 100-250V, 50/60Hz

Power consumption:.....550W

Optic

Light source: YODN HRI 350W Lamp

LED life expectancy: 2200 hours

Lens: High precision optical lens

Strobe: Dual lens strobe (0.5-9times/second)

Dimmer: Smooth dimmer from 0-100%

Feature

Color: Wheel: 13 color+white

Rotating gobo wheel: 12 gobos+ white

Static gobo wheel: 17 fixed gobos+white

Prism :12 -facets circular rotating prism

Zoom: 2.5°-35°

Focus: Linear adjustment

Motorized

Pan/Tilt

Pan movement range: 540°

Tilt movement range: 270°

8bit/16 bit movement solution, optional

Automatic Pan/Tilt position correction

Pan movement 0°-540°at max.....

Tilt movement 0°-270°at max.....

LCD operation

Built-in demo sequences

Silent fans cooling

Strong two-phase motors

Stand-alone operation

Supported protocols: DMX512

2 DMX modes (16/24 control channels)

Connection

DMX data in/out: Locking 3-pin and 5-pin XLR

AC power input: 1.5m power cord with plug

Rigging

Mounting points: 2 pairs of 1/4-turn locks

Mounting horizontally or vertically via 2 Omega brackets

Temperatures

Maximum ambient temperature: 45°C
 Maximum housing temperature: 75°C

Minimum distances

Min. distance from flammable surfaces: 3.0m
 Min. distance to lighted object: 2.0m

Dimension: 386(L) x 365(W) x 589(H) mm
 Weight (net): 19kg
 Warranty: 1 Year

Set Up:

Power Supply: Before plugging your unit in, be sure the source voltage in your area matches the required voltage for unit, The model is Auto power supply, It is workable in 100-250V/50~60Hz. Please make sure your unit voltage matches the wall outlet voltage before attempting to operate you fixture.

Connection to the mains

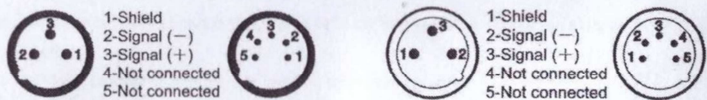
For protection from electric shock, the fixture must be earthed!
 Install a suitable plug on the power cord, note that the cores in the power cord are colored according to the following table. The earth has to be connected!
 If you have any doubts about proper installation, consult a qualified electrician.

| Core (EU) | Core (US) | Connection | Plug Terminal Marking |
|--------------|-----------|------------|-----------------------|
| Brown | Black | Live | L |
| Light blue | White | Neutral | N |
| Yellow/Green | Green | Earth | |

DMX512 connection

The fixture is equipped with both 3-pin and 5-pin XLR sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted-pair cable designed for RS-485 and 3-pin or 5-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

DMX-output XLR mounting-sockets (rear view):
 DMX-input XLR mounting-plugs (rear view):

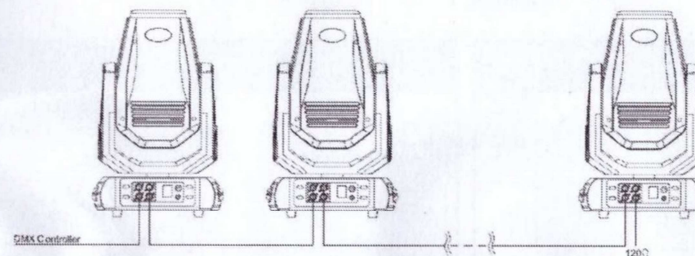


DMX Linking: To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example: a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

Building a serial DMX-chain:

Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.

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



Operating Modes: You can use the fixture in 4 ways:

- Auto Mode - The unit will automatically chase through the different colors and built-in programs.
- Slave Mode - The unit will run under slave mode.
- DMX control mode - This function will allow you to control each individual fixtures traits with a standard DMX 512 controller.
- Sound control mode- When music play. The unit will work with music beat.

DMX Mode: Operating through a DMX controller give the user the freedom to create their own programs tailored to their own individual needs. This function also allows you to use your fixtures as spot lights.

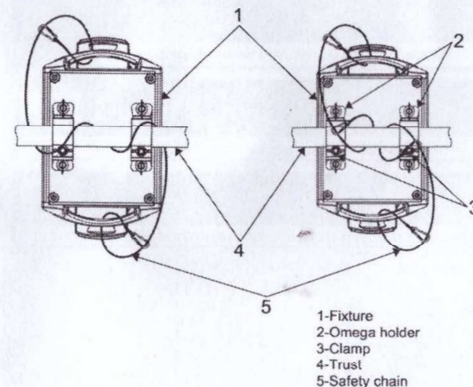
1. This function will allow you to control each individual fixture's traits with a standard DMX 512 controller.
2. The fixture has 16/24 two DMX channels to operate. Please see "DMX Values and Functions" for the DMX traits.
3. To run your fixture in DMX mode, plug in the fixture via the XLR connections to any standard DMX controller. Set your desired DMX address following the setup specifications that come with your DMX controller.

Hanging Drawing:

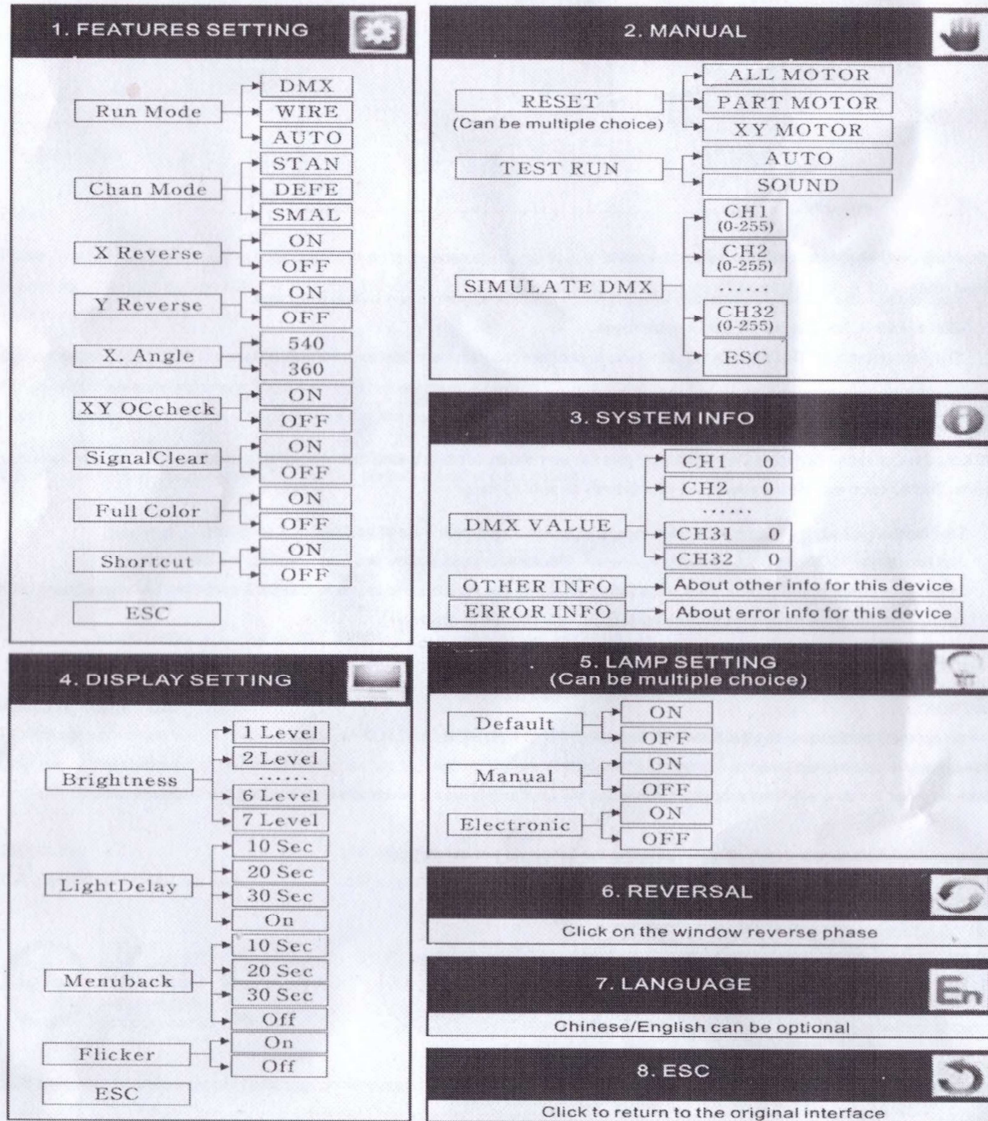
CAUTION!

Use an appropriate clamp to ring the fixture on the truss.
 Follow the instructions mentioned at the bottom of the base.
 Make sure that the device is fixed properly! Ensure that the structure (truss) to which you are attaching the fixtures is secure.

Securing the fixture via one safety wire Securing the fixture via two safety wires



Menu Map



DMX Chart:

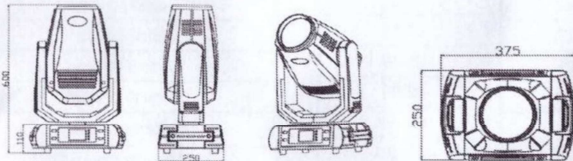
| Standard Mode | Reduced Mode | DMX Value | Function | Description |
|---------------|--------------|-----------|----------------|---------------------------|
| 1 | 1 | 0-255 | Pan | Pan |
| 2 | * | 0-255 | Pan Fine | Pan Fine |
| 3 | 2 | 0-255 | Tilt | Tilt |
| 4 | * | 0-255 | Tilt Fine | Tilt Fine |
| 5 | 3 | 0-255 | Pan/Tilt Speed | Pan/Tilt Speed Fast-Slow |
| 6 | 4 | 0-19 | Macro | No Function |
| | | 20-24 | | Energy Saving Mode (280W) |
| | | 25-30 | | Power Recovery |
| | | 31-129 | | No Function |
| | | 130-139 | | Lamp On |
| | | 140-149 | | X/Y Reset |
| | | 150-189 | | Effect Reset |
| | | 190-199 | | No Function |
| | | 200-209 | | Fixture Reset |
| | | 210-229 | | No Function |
| | | 230-239 | | Lamp Off |
| | | 240-255 | | No Function |
| 7 | 5 | * | Color Wheel | Color Index |
| | | 0 | | White |
| | | 9 | | Deep Red |
| | | 18 | | Deep Blue |
| | | 27 | | Yellow |
| | | 37 | | Green |
| | | 46 | | Fuchsine |
| | | 55 | | Sky Blue |
| | | 64 | | Red |
| | | 73 | | Deep Green |
| | | 82 | | Amber |
| | | 91 | | Blue |
| | | 101 | | Orange |
| | | 110 | | CTO |
| | | 119 | | Fluorescence Blue |
| | | | | Full Color |
| | | 128-129 | | White |
| | | 130-134 | | Deep Red |
| | | 135-138 | | Deep Blue |
| | | 139-143 | | Yellow |
| | | 144-147 | | Red |
| | | 148-152 | | Fuchsine |
| | | 153-157 | | Sky Blue |
| | | 158-161 | | Red |
| 162-166 | Deep Green | | | |

| | | | | |
|---------|--------------|---------|-------------------|-----------------------------------------------------------------------------|
| | | 167-171 | | Amber |
| | | 172-176 | | Blue |
| | | 177-180 | | Orange |
| | | 181-185 | | COT |
| | | 186-189 | | Purple |
| | | 190-220 | | Forwards color wheel rotation from fast to slow |
| | | 221-225 | | Stop |
| | | 226-255 | | Backwards color wheel rotation from slow to fast |
| 8 | * | 0-255 | Color Wheel Fine | Color wheel fine |
| 9 | 6 | 0-255 | Effect Speed | Effect - Speed Selection rotation gobo wheel speed Fast-Slow(0-25.5s) |
| 10 | 7 | 0-5 | Static Gobo Wheel | White |
| | | 6-11 | | Gobo 1 |
| | | 12-17 | | Gobo 2 |
| | | 18-23 | | Gobo 3 |
| | | 24-29 | | Gobo 4 |
| | | 30-35 | | Gobo 5 |
| | | 36-41 | | Gobo 6 |
| | | 42-47 | | Gobo 7 |
| | | 48-53 | | Gobo 8 |
| | | 54-59 | | Gobo 9 |
| | | 60-65 | | Gobo 10 |
| | | 66-71 | | Gobo 11 |
| | | 72-77 | | Beam 1 |
| | | 78-83 | | Beam 2 |
| | | 84-89 | | Beam 3 |
| | | 90-95 | | Beam 4 |
| | | 96-101 | | Beam 5 |
| | | 102-108 | | Beam 6 |
| | | 109-113 | | Gobo 1 Shake Slow-Fast |
| | | 114-119 | | Gobo2 Shake |
| | | 120-125 | | Gobo3 Shake |
| | | 126-131 | | Gobo4 Shake |
| | | 132-137 | | Gobo5 Shake |
| | | 138-143 | | Gobo6 Shake |
| | | 144-149 | | Gobo7 Shake |
| | | 150-155 | | Gobo8 Shake |
| 156-161 | Gobo 9 Shake | | | |
| 162-167 | Gobo10 Shake | | | |
| 168-173 | Gobo11 Shake | | | |
| 174-179 | Beam1 Shake | | | |
| 180-185 | Beam2 Shake | | | |

| | | | | |
|---------|------------------------------------|---------|--------------------------------------|------------------------------------|
| | | 186-191 | | Beam3 Shake |
| | | 192-197 | | Beam4 Shake |
| | | 198-203 | | Beam5 Shake |
| | | 204-210 | | Beam6 Shake |
| | | 211-233 | | Forwards rainbow effect fast-slow |
| | | 234-255 | | Backwards rainbow effect slow-fast |
| 11 | 8 | 0-7 | Rotating Gobo Wheel | White |
| | | 8-15 | | Gobo 1 |
| | | 16-23 | | Gobo 2 |
| | | 24-31 | | Gobo 3 |
| | | 32-39 | | Gobo 4 |
| | | 40-47 | | Gobo 5 |
| | | 48-55 | | Gobo 6 |
| | | 56-63 | | Gobo 7 |
| | | 64-71 | | Gobo 8 |
| | | 72-79 | | Gobo 9 |
| | | 80-87 | | Gobo 11 |
| | | 88-95 | | Gobo 12 |
| | | 96-103 | | Gobo 13 |
| | | 104-111 | | Gobo 1 Shake |
| | | 112-119 | | Gobo2 Shake |
| | | 120-127 | | Gobo3 Shake |
| | | 128-135 | | Gobo4 Shake |
| | | 136-143 | | Gobo5 Shake |
| | | 144-151 | | Gobo6 Shake |
| | | 152-159 | | Gobo7 Shake |
| 160-167 | Gobo8 Shake | | | |
| 168-175 | Gobo 9 Shake | | | |
| 176-183 | Gobo10 Shake | | | |
| 184-191 | Gobo11 Shake | | | |
| 192-199 | Gobo12 Shake | | | |
| 200-228 | Backwards rainbow effect fast-slow | | | |
| 229-255 | Forwards rainbow effect slow-fast | | | |
| 12 | 9 | 0-127 | Rot. Gobo indexing and rotation | Gobo index |
| | | 128-190 | | Backwards rotation fast-slow |
| | | 191-192 | | Stop |
| | | 193-255 | | Forwards rotation slow-fast |
| 13 | * | 0-255 | Rot. Gobo indexing and rotation-fine | Fine indexing(rotation) |
| 14 | 10 | 0-19 | Prism | No function |
| | | 20-255 | | Prism |
| 15 | 11 | 0-127 | Prism rotation and indexing | Prism index |
| | | 128-190 | | Backwards rotation fast-slow |
| | | 191-192 | | Stop |

| | | | | |
|---------|--------------|---------|------------|-------------------------------------------|
| | | 192-255 | | Forwards rotation slow-fast |
| 16 | 12 | 0-64 | Frost | No function |
| | | 65-255 | | Frost |
| 17 | 13 | 0-255 | Zoom | Zoom |
| 18 | * | 0-255 | Zoom Fine | Zoom Fine |
| 19 | 14 | 0-255 | Focus | Focus |
| 20 | * | 0-255 | Focus Fine | Focus Fine |
| 21 | * | 0-255 | Auto Focus | Auto Focus |
| 22 | 15 | 0-31 | Strobe | Shutter off |
| | | 32-63 | | Shutter open |
| | | 64-95 | | Strobe effect slow-fast |
| | | 96-127 | | Shutter open |
| | | 128-143 | | Closing pulse in sequences Fast-Slow |
| | | 144-159 | | Opening pulse in sequences Slow - Fast |
| | | 160-191 | | Shutter Open |
| | | 192-223 | | Random Strobe Slow-Fast |
| 224-255 | Shutter Open | | | |
| 23 | 16 | 0-255 | Dimmer | Linear dimmer 0-100% |
| 24 | * | | | No Function |

Dimension(mm):



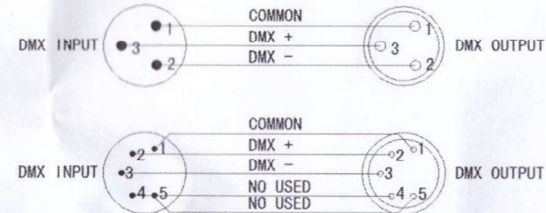
Cleaning

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, water)

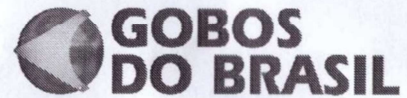
TRUBLE SHOOTING: Listed below are a few common problems the user may encounter, with solutions.



Unit not responds to DMX:

1. Check that the DMX cables are connected properly and are wired correctly (pin 3 is "hot"; on some other DMX devices pin 5 may be 'hot'). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.

PLEASE Note: All information is subject to change without prentice !



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