

Instruction Manual

PROFESSIONAL SHOW LIGHT

LED SPOT 330 CMY



Unpacking: Thank you for purchasing LED Spot 330 CMY. 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 LED SPOT 330 CMY. 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 manufactures 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.

Features

- Multi-Colors+goboes
- Color strobe
- Electronic Dimming 0-100%
- DMX-512 protocol
- Master/Slave synchronization
- LCD operation menu with function buttons
- Daisy Chain Units Together in DMX Mode

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 matches 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 90-250V, 50/60Hz
 Fuse:..... 5 A@220V
 Power consumption:.....300W@230V

Optic

Light source: CH Luminus 1piece *300W White LED
 LED lifespan: 6,0000 hours
 Dimmer: Smooth dimmer from 0-100%
 Fixed gobo wheel: 10gobos+Open
 Rotating gobo wheel:7gobos+Open
 Color wheel: 9 different colors+CMY
 8-facet prism
 7-31deg electronic zoom
 Focus+Frost +Iris

Motorized

Pan/Tilt
 Pan movement range: 540°
 Tilt movement range: 270°
 16 bit movement resolution
 Automatic Pan/Tilt position correction
 Pan movement 0°-540°at max.....Speed: 2.2 sec.
 Tilt movement 0°-270°at max..... Speed: 1.2 sec.

LCD operation

Built-in demo sequences
 Silent fans cooling
 Strong two-phase motors

Stand-alone operation
 Supported protocols: DMX512
 2 DMX modes (21/26 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


Total heat dissipation: 1200 BTU/h (calculated)
 Net dimension: 438(L) x 260(W) x 678(H) mm
 Weight (net): 22kg
 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 your SPOT 330, The model is Auto power supply, It is workable in 90-250V/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.

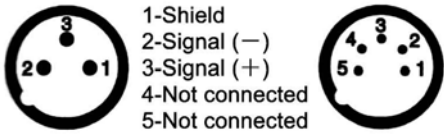
Core (EU)	Core (US)	Connection	Plug Terminal Marking
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	

DMX512 connection

The fixture is equipped with 3-pin or 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.

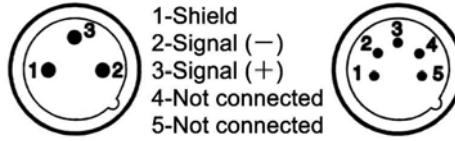
DMX-output

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.

Operating Modes: You can use the LED Spot 330 CMY in 3 ways:

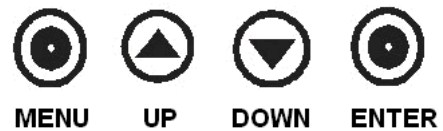
- Auto Mode - The unit will automatically chase through the different colors and built-in programs.
- Slave Mode – The unit will run under slave mode.
- DMX control mode - This function will allow you to control each individual fixtures traits with a standard DMX 512 controller.

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 LED Spot 330 CMY uses 21/26 DMX channels modes 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.

Touch Buttons: There are four buttons under the LCD display below:

There are four touch buttons under the LED display: Menu, Down, Enter. Normally, the LED will display the current DMX address code of the fixture. At this time, presses up and down to choose the functions you want.

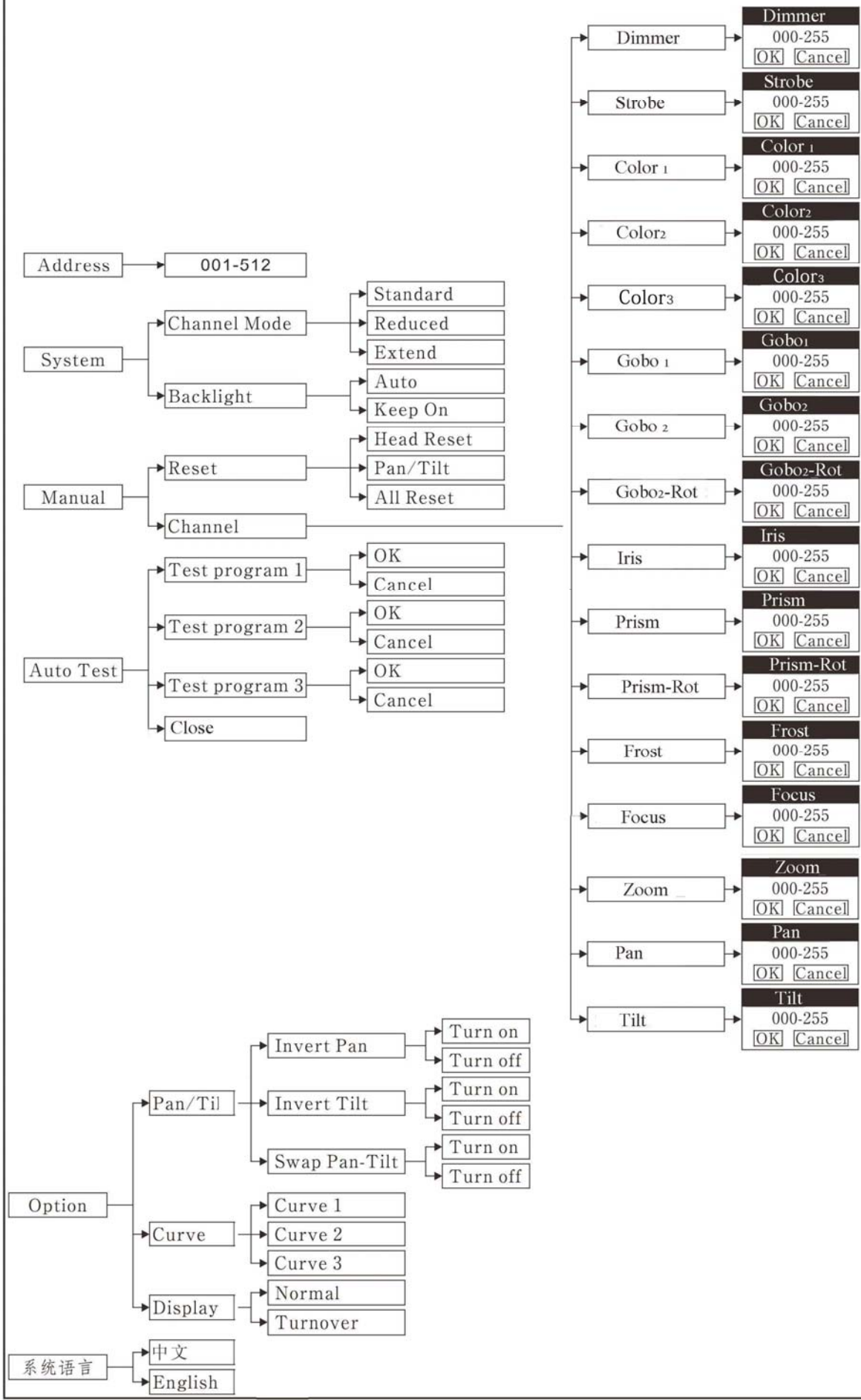


Up,

LED Operation Menu: LED screen with four touch buttons: **MENU, UP, DOWN and ENTER.**

LCD display operation:

DISPLAY MENU



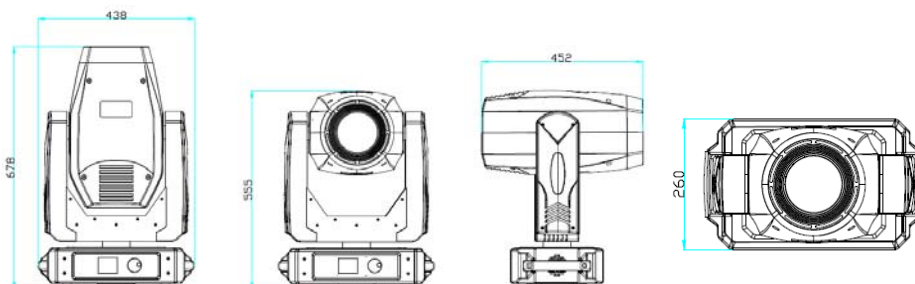
DMX Chart:

Mode/Channel		Value	Function
Standard	Reduced		
1	1	0-255	Pan 0-100%
2		0-255	Pan fine 0-100%
3	2	0-255	Tilt 0-100%
4		0-255	Tilt fine 0-100%
5	3	0-255	Pan/Fine Speed Fast -> Slow
6	4	0-255	Dimmer 0 -> 100%
7	5	252-255 239-251 226-238 213-225 208-212 108-207 104-107 4-103 0-3	Strobe/Shutter Open Random Strobe(Fast) Random Strobe(Medium) Random Strobe(Slow) Open Pulse:Slow -> Fast Open Strobe:Slow -> Fast Close
8	6	0-255	Cyan 0 -> 100%
9	7	0-255	Magenta 0 -> 100%
10	8	0-255	Yellow 0 -> 100%
11	9	0-255	Color1 0 -> 100%
12	10	0-255	Color2 0 -> 100%
13	11	0-255	Color3 0 -> 100%

14	12	191-255 126-190 119-125 112-118 105-111 98-104 91-97 84-90 77-83 70-76 63-69 56-62 51-55 46-50 41-45 36-40 31-35 26-30 21-25 16-20 11-15 6-10 0-5	Static Gobo Rotation(CCW): Slow -> Fast Rotation(CW): Slow -> Fast Gobo10 Shake: Slow -> Fast Gobo9 Shake: Slow -> Fast Gobo8 Shake: Slow -> Fast Gobo7 Shake: Slow -> Fast Gobo6 Shake: Slow -> Fast Gobo5 Shake: Slow -> Fast Gobo4 Shake: Slow -> Fast Gobo3 Shake: Slow -> Fast Gobo2 Shake: Slow -> Fast Gobo1 Shake: Slow -> Fast Gobo10 Gobo9 Gobo8 Gobo7 Gobo6 Gobo5 Gobo4 Gobo3 Gobo2 Gobo1 Open
15	13	188-255 120-187 112-119 104-111 96-103 88-95 80-87 72-79 64-71 56-63 48-55 40-47 32-39 24-31 16-23 8-15 0-7	Rotating Gobo Rotation(CCW): Slow -> Fast Rotation(CW): Slow -> Fast Gobo7 Shake: Slow -> Fast Gobo6 Shake: Slow -> Fast Gobo5 Shake: Slow -> Fast Gobo4 Shake: Slow -> Fast Gobo3 Shake: Slow -> Fast Gobo2 Shake: Slow -> Fast Gobo1 Shake: Slow -> Fast Gobo7 Gobo6 Gobo5 Gobo4 Gobo3 Gobo2 Gobo1 Open
16	14	193-255 128-192 0-127	Gobo Rotation Gobo Rotation(CCW): Slow -> Fast Gobo Rotation(CW): Fast -> Slow Gobo Position

17	15	193-255 128-192 0-127	Iris Iris Pulse Closing: Slow -> Fast Iris Pulse Opening: Slow -> Fast Iris Position
18	16	128-255 0-127	Prism Prism Open
19	17	194-255 190-193 128-189 0-127	Prism Rotation Prism Rotation(CCW): Slow -> Fast Prism Static Prism Rotation(CW): Fast -> Slow Gobo Position
20	18	128-255 0-127	Frost Frost In Frost Open
21	19	0-255	Focus 0 -> 100%
22		0-255	Focus Fine 0 -> 100%
23	20	0-255	Zoom 0 -> 100%
24		0-255	Zoom Fine 0 -> 100%
25		216-255 176-215 136-175 96-135 56-95 0-55	Auto Focus Auto Focus 13m Auto Focus 11m Auto Focus 8m Auto Focus 5m Auto Focus 3m Auto Focus Disable
26	21	201-255 161-200 120-160 0-119	System Control All reset Head reset Pan and tilt reset Unused

Fixture dimension (mm):



Rigging the fixture

Caution: Fixture may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the moving head!

Before rigging make sure that the installation area can hold a minimum point load of 10 times the fixture's weight.

When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in a distance of min. 1.0 m.

CAUTION!

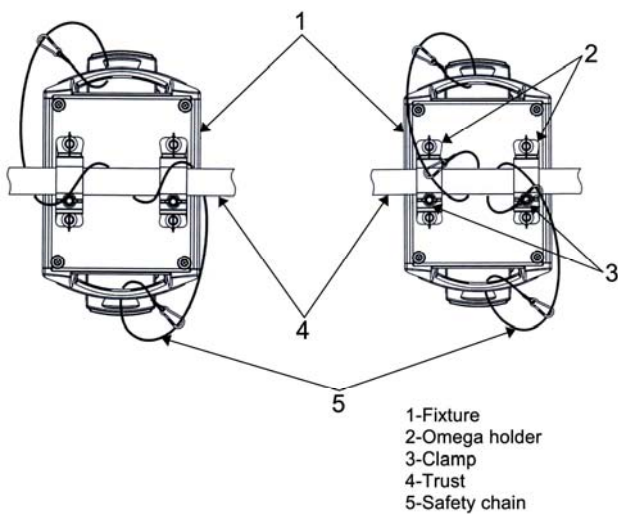
Use an appropriate clamp to ring the fixture on the truss.

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



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, dew).

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

Unit not respond 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.

Note: All information is subject to change without prior notice.