



COBRA HEAD 150

User Manual



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Safety

Important Safety Information

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT OVEREXPOSE THIS FIXTURE TO RAIN OR MOISTURE.

WARNING: CONNECT ONLY TO MAINS POWER SUPPLY WITH A PROTECTIVE EARTHING CONNECTION.

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE THE REAR COVER OR ATTEMPT TO OPEN THE LIGHTING FIXTURE. THERE ARE NO USER-SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.

1. Read this manual carefully.
2. Keep this manual safe for future reference.
3. Follow all warnings and recommendations.
4. Do not operate or store near water.
5. Do not expose the fixture to dripping or splashing liquid, and ensure that no objects containing liquid are placed on this fixture.
6. Clean only with a dry cloth.
7. Do not install or operate near any heat sources such as radiators, gas heaters, stoves, or other heating apparatus.
8. Only use attachments and accessories specified by the manufacturer.
9. Do not block any ventilation openings, including sound ports.
10. Install in accordance with the manufacturer's instructions.
11. Do not obstruct or remove the ground plug from the light, doing so may cause electric shock resulting in serious injury or death.
12. Protect the power cord from being walked on, pinched, or rolled over.
13. Unplug the fixture during electrical storms and power outages.
14. Refer all servicing to a qualified service technician. Servicing is required when the fixture no longer operates, fails to power on, or emits an electrical smell or sound.
15. To completely disconnect AC power from this fixture, the power supply cord must be unplugged.

Precautions

If an AVE lighting fixture is used outdoors on a sunny day, ensure that it is in a shaded area and is well ventilated to help prevent overheating.

Do not use AVE lighting fixtures in environments that are below 0°C OR exceed +40°C.

Suspension

Suspending any object is potentially dangerous and should only be attempted by qualified individuals with thorough knowledge of the techniques and regulations for suspending objects. It is the responsibility of the installer to ensure all fixtures and effects are installed correctly. AVE strongly recommends inspecting installed systems every 6 months for signs of weakness or damage. If any damage or weakness is detected then remedial action should be taken immediately. The user is responsible for making sure the wall, ceiling, or structure is capable of supporting all objects suspended overhead. Any hardware used to suspend a fixture not associated with AVE is the responsibility of others.

Mounting

The Cobra Head 150 includes a hanging bracket that can be fitted using a hex tool (not included) allowing you to hang the fixture upside down. It is strongly advised to install the safety loop and fit an appropriate safety cable* when hanging the fixture.

**This is a secondary fall arrest; in the event the yoke or clamp fail, the fixture is safe from causing serious injury or damage*

Description

Give your mobile lighting system some punch with the compact AVE Cobra Head 150 LED moving head. Fitted with a single 35W white LED light source, and a 12° beam angle to cut across your stage or dance floor. The gobo wheel includes 7 fixed gobos + open for creating different patterns and aerial effect. And an indexed colour wheel with of the 7 colours + open. The moving yoke has a wide pan and tilt range with fast and smooth movement for creating subtle dynamics or energetic chase effects.

The Cobra Head 150 can be mounted on a flat surface or upside down using the included hanging bracket and safety loop. The digital display can also be inverted when hung making it easier to navigate the menu.

Out of the box, the Cobra Head 150 has 'Auto' and 'sound active' modes for plug-and-play operation. As well as master slave function which lets you create coordinated lighting shows without the need for DMX. For use with other lighting fixtures the Cobra Head 150 can be connected to a DMX controller and manually controlled/programmed with 9CH and 11CH control options.

Features

- Compact LED moving head spot
- Single 35W white LED light source
- Fixed gobo wheel with 7 gobos + open
- Indexed colour wheel with 7 colours + open
- Wide pan and tilt ranges with smooth movement
- 3-Pin XLR connections for DMX control
- Built-in Auto programs; Auto / Sound
- Master / Slave operation
- Mounts on any flat surface or upside down on a lighting rig
- Supplied with;
 - Cobra Head 150 fixture
 - Mounting bracket (including safety loop)
 - Manual
 - Power Cable

Setup

To set up your AVE Cobra Head 150 follow the below steps;

1. Mount the item on your lighting stand or on the floor
2. Connect the AC power cord from a grounded mains 240v power source
3. Power the fixture/s on from the mains socket
4. Select the desired operation mode and press 'enter'
5. Wait approx. 10sec for the setting to take effect

Operation

To access the menus and functions of the Cobra Head 150, use the four (4) buttons located under the main LCD control screen.

| Button Label | Function |
|--------------|--|
| Menu | Press to access main menu, or change function once the fixture is on |
| Up | Cycles upwards through the menu and options |
| Down | Cycles downwards through the menu and options |
| Enter | Press to select a menu option or save a setting |

Menu Map

| Main Level | Program Level | Description |
|------------|---------------|---------------------------------|
| Addr | 1 – 512 | DMX Address Value |
| Chnd | 9Ch | 9 Channel DMX Mode |
| | 11Ch | 11 Channel DMX Mode |
| SLNd | NASt | Master |
| | SLA 1 | Slave 1 |
| | SLA 2 | Slave 2 |
| ShNd | Sh 1 | Show 1 |
| | Sh 2 | Show 2 |
| | Sh 3 | Show 3 |
| | Sh 4 | Show 4 |
| Soun | On/Off | Sound Active (for Show 1 – 4) |
| SenS | 0 – 100 | Sound Sesity |
| bLnD | No / Yes | Blackout Mode |
| iPAn | Yes / No | Invert Pan |
| itLt | Yes / No | Invert Tilt |
| LED | On / Off | Digital Display On / Off |
| dISP | Yes / No | Invert Display |
| tESt | - | Auto Test All Functions |
| tENP | - | Displays Temperature of Fixture |
| rSEt | - | Resets Fixture |

DMX Channels

9 CH Control

| | | |
|-------------|-----------|----------------------|
| 1 CH | 0 - 255 | Pan Movement |
| 2 CH | 0 - 255 | Tilt Movement |
| 3 CH | 0 - 255 | Pan / Tilt Speed |
| 4 CH | 0 - 255 | Dimmer |
| 5 CH | 0 – 7 | No function |
| | 8 – 99 | Strobe (slow > fast) |
| | 100 – 149 | Strobe (fast > slow) |
| | 150 – 199 | Strobe Effect 1 |
| | 200 – 245 | Strobe Effect 2 |
| | 246 - 255 | Strobe (max speed) |
| 6 CH | 0 - 255 | Colour |
| 7 CH | 0 - 255 | Gobo |
| 8 CH | 0 – 7 | No Function |
| | 8 – 199 | Colour Auto Speed |
| | 200 – 255 | Sound Control |
| 9 CH | 0 – 255 | Speed |

11 CH Control

| | | |
|--------------|-----------|----------------------|
| 1 CH | 0 - 255 | Pan Movement |
| 2 CH | 0 - 255 | Fine Pan |
| 3 CH | 0 - 255 | Tilt Movement |
| 4 CH | 0 - 255 | Fine Tilt |
| 5 CH | 0 – 255 | Pan / Tilt Speed |
| 6 CH | 0 - 255 | Dimmer |
| 7 CH | 0 – 7 | No function |
| | 8 – 99 | Strobe (slow > fast) |
| | 100 – 149 | Strobe (fast > slow) |
| | 150 – 199 | Strobe Effect 1 |
| | 200 – 245 | Strobe Effect 2 |
| | 246 - 255 | Strobe (max speed) |
| 8 CH | 0 - 255 | Colour |
| 9 CH | 0 – 255 | Gobo |
| 10 CH | 0 – 7 | No Function |
| | 8 – 199 | Colour Auto Speed |
| | 200 – 255 | Sound Control |
| 11 CH | 0 - 255 | Speed |

Specifications

| | |
|---------------------------|--|
| Light Source: | 1x 35W White LED (50,000hr life expectancy) |
| Beam Angle: | 12° |
| Gobo Wheel: | 7 + open (fixed) |
| Colour Wheel: | 7 + white split colours, scroll at variable speeds |
| Illuminance: | (12°): 2,400 lux @ 5m |
| Pan Range: | 540° |
| Tilt Range: | 270° |
| Strobe Rate: | 0 – 16Hz |
| DMX Channels: | 9CH / 11CH |
| DMX Connectors: | 3-Pin XLR |
| Power Consumption: | 60W |
| Power Supply: | 240V AC / 50Hz |
| Power Connectors: | IEC Mains |
| Dimensions: | 194 x 151 x 285 mm |
| Weight: | 3.0 kg |
