



COBRA BEAM 100

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 Beam 100 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 Beam 100 LED moving head. Fitted with a 10W Quad Colour (RGBW) LED light source, with a tight beam to cut across your stage or dance floor. 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 Beam 100 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 Beam 100 has an Auto mode with 4 pre-set programs that is sound reactive and will move to the music when detected. The master/slave function lets you easily create coordinated lighting shows and without the need for DMX. For use with other lighting fixtures the Cobra Beam 100 can be connected to a DMX controller and manually controlled/programmed with either the 7CH or 13CH control options.

Features

- Compact LED moving head beam
- 10W Quad Colour (RGBW) LED light source
- Focusing lens for tight beam angle
- 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 Beam 100 fixture
 - Mounting bracket (including safety loop)
 - Manual
 - Power Cable

Setup

To set up your AVE Cobra Beam 100 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 Beam 100, 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

Addr	1 – 512	DMX Address Value
Chnd	7Ch	7 Channel DMX Mode
	13Ch	13 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
Auto	-	Activates Auto Mode
coLo	CL 1 - 15	Preset Colour (15 presets)
Soun	On/Off	Sound Active (for Show 1 – 4)
bLnd	No / Yes	Boot Mode
PAn	Yes / No	Invert Pan
PPoS	540 / 180	Pan Range Adjust
tILt	Yes / No	Invert Tilt
tPoS	180 / 90	Tilt Range Adjust
LED	On / Off	Digital Display On / Off
dISP	Yes / No	Invert Display
bALA	Red	Red Balance
	Green	Green Balance
	Blue	Blue Balance
tESt	-	Auto Test All Functions
tENP	-	Displays Temperature of Fixture
rSEt	-	Resets Fixture

DMX Channels

7 CH Control

1 CH	0 - 255	Pan Movement
2 CH	0 - 255	Tilt Movement
3 CH	0 – 200	Dimmer
	201 – 249	Strobe (slow > fast)
	250 – 255	Full On
4 CH	0 - 255	Red
5 CH	0 – 255	Green
6 CH	0 - 255	Blue
7 CH	0 - 255	White

13 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 – 255	Red
8 CH	0 - 255	Green
9 CH	0 – 255	Blue
10 CH	0 – 255	White
11 CH	0 - 7	No function
	8 - 255	Colour Macro (32 Presest)
12 CH	0 – 255	Strobe (slow > fast)
13 CH	0 – 127	Sound Mode Disabled
	128 – 255	Sound Mode Active

Specifications

Light Source: 1x 10W Quad LEDs (50,000hr life expectancy)

Colours: Red, Green, Blue, White

Pan Range: 540°

Tilt Range: 270°

Strobe Rate: 0 – 10Hz

DMX Channels: 7CH / 13CH

DMX Connectors: 3-Pin XLR

Power Consumption: 30W

Power Supply: 240V AC / 50Hz

Power Connectors: IEC Mains

Dimensions: 148 x 145 x 178 mm

Weight: 1.60 kg
