

COB-200A

200watt RGBA (Red, Green, Blue, Amber) LED Projector

Operating Manual



Please read this user's manual before using this product



Thank you for using this product. iPhos lighting products are designed with the professional operator in mind and are covered by a one year, parts and labour warranty. Please read this instruction manual carefully and keep it for reference. The instructions contain important information about the safety, installation and use of this lighting fixture. Please follow these instructions carefully when installing and operating this unit. When receiving the product, please check that the product has not been damaged during transit and that all the accessories are included.

This product utilizes the international standard DMX512 protocol and is suitable for small to large stages catering for theatrical performances, concerts, houses of worship, film sets, television studios, and other place where a high quality light projector is needed.

Before You Begin

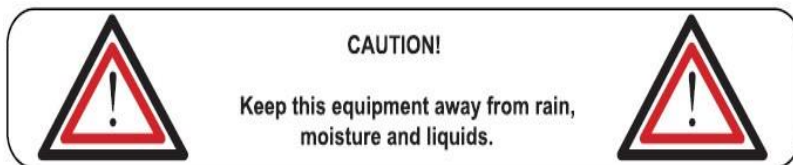
What is included:

1 x Light Fixture (including dual Yoke Brackets and Rotatable Barn Doors)
1 x 1.5mtr, 3pin, Male XLR to Female XLR Signal Cable
1 x 1.4mtr Mains Power Cable - AS/NZS 3112 Male Plug to Powercon (NAC3FCA type - Blue)
1 x Powercon Connector (NAC3FCB type - White) for power-out
1 x User Manual

Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton. Check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping, or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the supplier as “faulty out of the box”, it is important that the fixture be returned in the original factory box and packing.

Safety Instructions



1. This apparatus (light) belongs to CLASS I (Earthed) device, therefore it must be connected to a power source with an earth socket.
2. Use a suitable and safe power outlet or power extension cable to connect the light.
3. The unit is supplied with 1 x NAC3FCB type Powercon Connector (white colour). This is for wiring the system for power in/out daisy chaining. Only to be wired by a licensed electrician.
4. **** **Never connect the device to a dimmer pack** ****
5. The light can emit a very powerful beam. Do not stare directly at the light beam. It can hurt your eyes.
6. Keep away from children. To be operated by trained personnel only.
7. Make sure that the supply voltage is within the specified voltage levels of the light.
8. Before connecting to a power source, inspect the power cable, mains plug, powercon connector and lighting fixture power socket, for any damage or lacerations. If the cable/plugs/socket, connectors shows any signs of damage, do not connect the light to a power source. Refer the light to a qualified technician for repairs.
9. The light must be powered-off when it's not in use, in order to extend its life and reduce power consumption. Disconnect from the power source before cleaning.
10. When un-plugging the power cable, from the power source, pull out by gripping the plug. Do not pull it by the cable.
11. If you see bare wires exposed, when the light is in operation, immediately turn the power off from the wall socket or the switch-board, then disconnect the light and refer it to a qualified technician for repairs.
12. Do not modify the light in any way. No User Serviceable parts inside.
13. The Maximum ambient operating temperature is 40° C in the shade. Do not operate fixture at temperatures higher than this. Do not operate the light, when exposed to direct sunlight.
14. Do not daisy chain power to more than 8 units @ 230V.
15. If you are a business or employer (or other [PCBU](#)) you must ensure that the light is regularly inspected and tested, by a competent person, to Australian standards AS/NZS 3760: 2013

Specifications:

Electrical:

Input Voltage, 90-240V AC-50/60Hz
Max power: 250W

Light Source:

LED: 1 x 200watt COB, RGBA (Red, Green, Blue, Amber)

Control:

Control Protocol: DMX512
Personality: 8 channels
Fixture Connection: Power in/out (powercon), DMX Data in/out.
Control Mode: DMX, Stand Alone

Optical System:

Dimmer: 0-100% Linear dimming, high speed, flicker-free driver chip (video friendly).
Strobe: 0-20Hz
Beam angle: 60°

Environment:

Dry / Indoor
Ingress Protection Rating: IP20
Operation Temperature:-20°C - +40°C

Physical:

Lighting Fixture Dimensions including Bracket (L*H*W): 340*210*255mm
Net Weight (excluding power cable): 5.54kg
Net Weight (including power cable): 5.88kg
Shipping (Gross) Weight: 6.34kg
Shipping Dimensions: 240*240*330mm
Housing: Die-cast Aluminium
Cooling: Low Noise Fan Cooling

Features:

- Flicker-free dimmer makes for a video friendly device
- Built-in temperature sensor - automatically adjusts the light output, when the operating temperature approaches maximum operating levels, to prevent the LED lamp from overheating.
- 8 x DMX channel operation
- DMX512 signal-present indicator.
- 4 x 7segment digital display.
- Detachable power and signal cables
- Uniquely shaped reflective dish for a hotspot-free projection

Setup

Installation Requirement

- This product can operate in any position.
- If hanging the fixture for overhead use, then please follow the below steps:
When hanging the fixture, it is your responsibility to ensure the hanging apparatus and the hanging point can safely support the total weight of the light.
- Please make sure there are no flammable objects within 1mtr when installing the light.
- The installation must be carried out by trained personnel only. A faulty installation may cause injury or equipment damage.
- During the installation, block access below the work area and use suitable and stable platforms, when installing or servicing the light.
- Lights must be operated placed in well ventilated areas. Make sure any ventilation holes, on the fixture, are not obscured.

- When adjusting the angle of the light ensure that both the side bolts are loose. Once in position tighten both bolts by hand.
- **Never adjust the angle while the bolts are tight.** Adjusting the angle of the light while the bolts are tight will cause the bolt, on one side of the bracket to loosen, while the opposite bolt will tighten excessively. Excessive tightening may damage the bolt resulting in a dangerous installation.

Power Connection:

This fixture has an auto-switching switch-mode power supply that can accommodate a wide range of input voltages. The only thing necessary to do before powering on the unit is to make sure the line voltage you are applying is within the range of accepted voltages. This fixture will accommodate between 90V and 240V AC 50-60 Hz.

Connection of DMX Signal Wire

- This light utilizes the standard DMX512 control protocol. Even though the fixture can operate with standard balanced audio cables, using DMX Data cables will ensure there is no “misfiring” or loss of data integrity.
- Connect the first fixture, to the DMX controller, using female to male 3 pin DMX Cable. Connect the first fixture to the next fixture using a male to female 3 DMX Cable. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.
- Numerous fixtures can be connected in series without the need for the signal amplifier.
- Long DMX signal runs (more than 50mtr to 100mtr may require a signal amplifier

Control Panel Functions

Display Panel



Button	Function
MENU	Exits from the current menu or function
UP	Navigates upwards through the menu list and increases the numeric value when in a function
DOWN	Navigates downwards through the menu list and decreases the numeric value when in a function
ENTER	Enables the currently displayed menu or sets the currently selected value in to the selected function

A – MENU, B – UP, C – DOWN, D – ENTER

Control Panel Operation Instructions:

Pressing the menu key A will cycle through the 9 different function settings. The first one or two digits of the display represent the current function (refer to the function table – [page ??](#)). The last two or three digits represent the address code, speed, and parameters of the function. Press B or C to modify its parameter value. Press D to confirm and lock in memory.

After pressing D, all settings will be retained in permanent memory even when the power is turned off.

Display function table

All functions are confirmed, and committed to memory by pressing the ENTER (D) key

No.	Function	Description
1	A001	DMX Channel Address – 001 to 512 Use B and C keys to Change the DMX Assignment Number
2	CC99	RGBA Chase Speed - Slow to Fast (01-99) Snap from Cool White to Warm White Use B and C keys to Modify Chase Speed
3	CP99	RGBA Gradient - Slow to Fast (01-99) B, C key to modify the gradient speed
4	DE99	RGBA Pulse Speed – Slow to Fast (01-99) Use B and C keys to Modify Pulse Speed
5	bEbE	Audio Trigger Utilizing Built-In Microphone Output Alternates Between Red, Green, Blue and Amber
6	r255	Red Colour Selection, (000-255) Dim to Bright Use B and C keys to Modify Light Output Intensity
7	G255	Green Colour Selection, (000-255) Dim to Bright Use B and C keys to Modify Light Output Intensity
8	B255	Blue Colour Selection, (000-255) Dim to Bright Use B and C keys to Modify Light Output Intensity
9	o255	Amber Colour Selection, (000-255) Dim to Bright Use B and C keys to Modify Light Output Intensity

DMX512 Channel Specification (8ch)

No.	Function	Description
Channel 1	Dimmer	Master (RGBW) Linear Dimming - 0-100% (dark to light)
Channel 2	Strobe	DMX Value: 0 - LED On DMX Value 1-255 Flash, 0.5Hz to 20Hz
Channel 3	Macro Functions	DMX Value: 0 to 49 - LED Off DMX Value: 50 to 99 – RGBA Colour Chase (100% output) DMX Value: 100 to 149 – RGBA Fade (100% output) DMX Value: 150 to 199 – RGBA Gradient Colour Chase (100% output) DMX Value: 200 to 255 – Sound Active (High to Low Sensitivity)
Channel 4	Macro Speed	Chase and Fade Speed (Slow to Fast)
Channel 5	R Dimmer	Red Linear Dimming – 0-100% (dark to light)
Channel 6	G Dimmer	Green Linear Dimming – 0-100% (dark to light)
Channel 7	B Dimmer	Blue Linear Dimming – 0-100% (dark to light)
Channel 8	A Dimmer	Amber Linear Dimming – 0-100% (dark to light)

Service and Maintenance

Note: No User Serviceable parts are inside this light fixture. For all repairs and service, please consult a qualified technician.

Fault/Symptom	Cause/Remedy
Low Output	There may be excessive dirt built-up on the front glass cover. Clean the glass with a non-abrasive cloth and glass cleaner
Some of the LEDs are not illuminating	Send fixture to an authorized service agent for repair.
Circuit Breaker/Fuse keeps tripping/blowing.	Check the total load connected to the electrical supply. Reduce the number of items connected to the supply.
	Check for damaged power cables which may cause a short circuit. Disconnect and remove faulty item from the electrical supply.
Fixture has no power	Check for connection to the electrical supply. Check power cable and replace it if it is faulty. If there is still, no power, send fixture to an authorized service agent for repair.
Not responding to DMX	Check Input Panel for correct addressing
	Check DMX cables, input and output, for short circuits or open circuits.
	Check the polarity switch settings on the DMX controller
	If fixture is still not responding, send fixture to an authorized service agent for repair.
Loss of signal or responding to commands	Install a DMX cable terminator
	Use only DMX Cables
	Connect directly to DMX controller to test fixture. If it's still, not responding to DMX commands, send fixture to an authorized service agent for repair.

Product Warranty:

This product is covered by the manufacturer for a period of 12 months from the date of purchase.

Warranty Terms and Conditions:

The only conditions and warranties which are binding on iPhos in respect of the state, quality or condition of the goods supplied to the customer, are those imposed and required to be binding by statute (including The Trade Practices Act as amended) and to the extent of permitted thereby the liability, if any, of iPhos arising from the breach of such conditions or warranties whether expressed or implied by law.

Use of non-genuine parts, which cause or may cause damage to these goods, will result in the cancellation of the warranty cover. **Warranty repairs can only be carried out by authorised service agents.** Contact your retailer for your nearest iPhos authorised warranty service agent.

Failure to comply with any of the above operating guidelines will result in the cancellation of the product warranty and liability cover, except as required to be binding by statute (including The Trade Practices Act as amended)