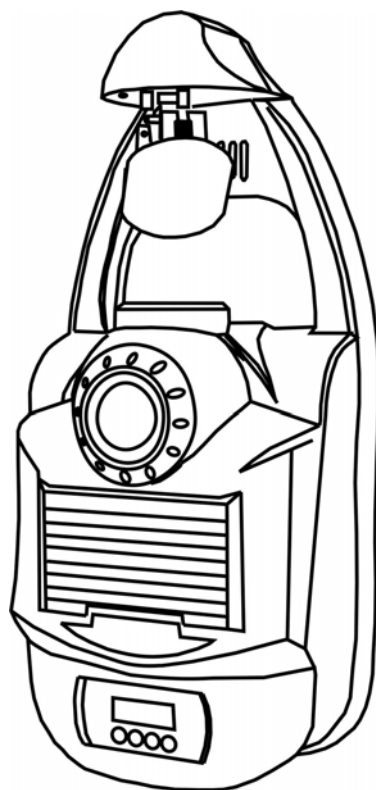


# BRAVO SCAN 250, SC-250

USER MANUAL



# SAFETY INFORMATION

## PROTECTION FROM ELECTRIC SHOCK

**Warning!** *This product is for professional use only. It is not for household or residential use.*

This product presents risks of lethal or severe injury due to fire and heat, electric shock, ultraviolet radiation, lamp explosion, and falls. Read this manual before powering or installing the fixture, follow the safety precautions listed below and observe all warnings in this manual and printed on the fixture. If you have any question about how to use this fixture safely, please contact your Entar dealer.

**Warning!** *Always disconnect from mains supply before replacing the lamp.*

Disconnect the fixture from AC power before removing or installing the lamp, fuse, or any part, and when not in use.

Always ground (earth) the fixture electrically.

Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault protection.

Do not expose the fixture in rain and moisture.

Refer any service operation not described in this manual to a qualified technician.

## PROTECTION FROM UV RADIATION AND LAMP EXPLOSION

Never operate the fixture with missing or damaged lenses and/or covers.

When replacing the lamp, allow the fixture to cool for at least 15 minutes before opening the fixture or removing the lamp. Protect your hands and eyes with gloves and safety glasses.

Do not stare directly into the light. Never look at an exposed lamp while it is lit.

Replace the lamp if it becomes defective or worn out, or before usage exceeds the maximum service life.

## PROTECTION FROM BURNS AND FIRE

**Danger!** *Intense heat. Avoid contact by persons and materials.*

*The exterior of the fixture can get very hot – up to 120° C. Allow the fixture to cool for at least 45 minutes before handling.*

*Prolonged exposure to unshielded lamp can cause eye and skin burns.*

Never attempt to bypass the thermostatic switch or fuses. Always replace defective fuses with ones of the specified type and rating.

Keep all combustible materials (for example fabric, wood, paper) at least 1 meter away from the fixture.

Keep flammable materials well away from the fixture.

Do not illuminate surfaces within 3 meters (10 feet) of the fixture.

Provide a minimum clearance of 0.1 meters around fans and air vents.

Never place filters or other materials over the lens.

# INTRODUCTION

## MAIN FEATURES

180° pan and 90° tilt

DMX channels: 8

Lamp: MSD 250/2 (optional)

Power consumption: 300W

Strobe: 1~7 f.p.s.

Prism: Rotating prism

Colors: 7 plus open white with rainbow effect

Rotating gobos: 7 plus open white

Focus: Manual

# SETUP

## UNPACKING

The Bravo Scan 250 comes with:

User manual

Power cable

2x XLR connectors

1x Hanging bracket

Lamp and clamps are optional (Please contact your dealer for more information)

## AC POWER

**Warning!** *For protection from electric shock, the fixture must be grounded (earthed). The power supply shall have overload and ground-fault protection.*

## RIGGING OR MOUNTING THE BRAVO SCAN 250

**Warning!** *Attach an approved safety cable to the attachment point provided in the base. Never use the carrying handles for secondary attachment. Always use an approved safety cable.*

## CONNECTING THE SERIAL DATA LINK

The Bravo Scan 250 has locking 3-pin data input and output sockets that are wired for use with DMX devices with pin 1 to shield, pin 2 to cold(-) and pin 3 to hot(+).

1. Connect the controller's output to the fixture's data input.
2. Connect the output of the fixture closest to the controller to the input of the next fixture. If connecting a fixture with pin 3 hot to a fixture with pin 3 cold, use a phase-reversing adaptor.
3. To terminate the link, insert a male 120Ω XLR termination plug in the output of the last fixture.

## TIPS FOR BUILDING A SERIAL LINK

- Use shielded twisted-pair cable designed for RS-485 devices: standard microphone cable cannot transmit DMX data reliably over long runs. For links up to 300 meters (1000 ft.) long, you can use 24 AWG, low capacitance, 85-150 ohm characteristic impedance, shielded cable with 1 or more twisted pairs. For runs up to 500 meters (1640 ft.) use 22 AWG cable. Use an amplifier if the serial link exceeds 500 meters.
- Never use a "Y" connector to split the link. To split the serial link into branches use a splitter.
- Do not overload the link. Up to 32 devices may be connected on a serial link.
- Terminate the link by installing a termination plug in the output socket of the last fixture on the link. The termination plug, which is simply a male XLR connector with a 120 ohm, 0.25 watt resistor soldered between pins 2 and 3, "soaks up" the control signal so it does not reflect back down the link and cause interference. If a splitter is used, terminate each branch of the link.

# CONTROL PANEL

## MENU NAVIGATION

The DMX address is displayed after the fixture resets. To enter the menu, press [mode]. Use the [up] and [down] keys to select an option.

## SETTING THE DMX MODE

1. Apply power to the Bravo Scan 250. Press [mode] to enter the Addr mode.
2. Select a DMX starting address by using the [up] and [down] keys.
3. Store the DMX starting address by pressing the [mode].

## MOVEMENT

The Bravo Scan 250 provides 2 menus with options for optimizing movement to suit different applications.

(PAN->YES) allows you to reverse pan movement.

(Tilt->YES) allows you to reverse tilt movement.

## RESET

The Bravo Scan 250 can be reset without switching off the power supply (RSET).

1. Press [mode] to enter the (rSEt) mode.
2. Press [up] or [down] key to reset the fixture.

## OPERATING MODES

The Bravo Scan 250 can run in 3 modes: DMX, sound activation and auto. The fixtures can run in master/slave mode with sound activation.

To activate sound trigger, press [mode] to enter (RUN), then press [up] or [down] key to select (PRG0).

To run the built-in sequences, press [mode] to enter (RUN), then press [up] or [down] key to select (PRG1).

To set a fixture run as a slave unit, press [mode] to enter (RUN), then press [up] or [down] key to select (FOLL).

# DMX PROTOCOL

DMX channel	Value	Function
<b>1</b>	0	<b>Color</b> White
	1-16	Purple
	17-32	Light blue
	33-48	Yellow
	49-64	Green
	65-80	Orange
	81-96	Blue
	97-112	Red
	113-127	White
	128-191	Rainbow effects, clockwise, slow → fast
	192-255	Rainbow effects, anti-clockwise, slow → fast

<p><b>2</b></p>	<p>0-15 16-31 32-47 48-63 64-79 80-95 96-111 112-127 128-191 192-255</p>	<p><b>Gobo</b> Clear Gobo #1 Gobo #2 Gobo #3 Gobo #4 Gobo #5 Gobo #6 Gobo #7 Rainbow effects, clockwise, slow → fast Rainbow effects, anti-clockwise, slow → fast</p>
<p><b>3</b></p>	<p>0-8 9-119 120 121-231 232-255</p>	<p><b>Gobo Rotation</b> Still Rotate, clockwise, slow → fast Still Rotate, anti-clockwise, slow → fast Macro</p>
<p><b>4</b></p>	<p>0-133 134-243 244-249 250-255</p>	<p><b>Shutter</b> Dimming, close → open Strobe, slow → fast Keep 4 seconds for reset the fixture Open</p>
<p><b>5</b></p>	<p>0-255</p>	<p><b>Pan</b> (Neutral = 127)</p>
<p><b>6</b></p>	<p>0-255</p>	<p><b>Tilt</b> (Neutral = 127)</p>
<p><b>7</b></p>	<p>0-127 128-255</p>	<p><b>Prism</b> Open Prism</p>
<p><b>8</b></p>	<p>0-8 9-119 120 121-231 232-255</p>	<p><b>Prism rotating</b> Still Rotate, clockwise, slow → fast Still Rotate, anti-clockwise, slow → fast Macro</p>