Intimidator™ Spot 250

Snapshot

OK on Dimmer	⊘
Outdoor OK	⊘
Sound Activated	✓
DMX512	✓
Master/Slave	✓
115V/230V Switch	✓
Replaceable Fuse	✓
User Serviceable	⊘
Duty Cycle	⊘

USER MANUAL
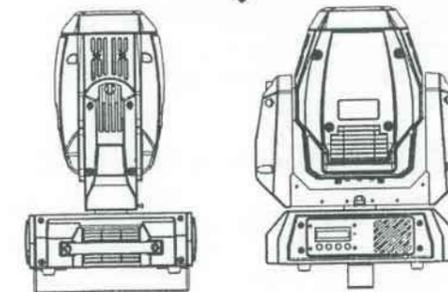
Technical Specifications

WEIGHT & DIMENSIONS
Length..16.3 in (414 mm)
Width...13.3 in (337 mm)
Height...20.4 in (517 mm)
Weight...58.6 lbs (26.6 kg)

POWER
Switch-selectable power settings.....................115VAC 60Hz or 230VAC 50Hz
Fuse (fast-blow) F7A 250V
Power Consumption...444W (3.7A) max @ 120V
Power Consumption...667W (2.9A) max @ 230V
Inrush Power..(4.2A) @ 120V
Inrush Power..(3.4A) @ 230V
Power Factor...0.90 @ 120V
Power Factor...0.71 @ 230V

LIGHT SOURCE
Discharge lamp (included)..........................MSD250 250W 8000° 2,000hrs

LAMPS
GE™ CSD 250/2.......................................2,000 hr, 9000K, 250W
Osram™ HSD 250/78 ....3,000 hr, 7800K, 250W
Philips™ MSD 250/2 ....3,000 hr, 8500K, 250W

PHOTO OPTIC
Luminance @ 1m..18,000 lux
Beam Angle ....22°

RANGE
Pan ....540°
Tilt..270°

ROTATING GOBOS
Outside diameter..26.7 mm
Image diameter (maximum)...24.5 mm
Max thickness..2.5 mm

THERMAL
Maximum ambient temperature..............................104°F (40°C)

CONTROL & PROGRAMMING
Data input ....locking 3&5-pin XLR male socket
Data output ....locking 3&5-pin XLR female socket
Data pin configuration (3-pin)........................pin 1 shield, pin 2 (-), pin 3 (+)
Data pin configuration (5-pin) ....pin 1 shield, pin 2 (-), pin 3 (+), pin 4 & 5 not used
Protocols..DMX-512 USITT
DMX Channels 10, 14

STANDARD ORDERING INFORMATION
Intimidator™ Spot 250......................................INTIMIDATORSPOT250
Easy controller CA-9

WARRANTY INFORMATION
Warranty ....2-year limited warranty

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	Description	Part Number
7	Lamp reflector	P115-IS250LREF
8	Gobo wheel: assembled	P115-15250GWA
9	Cooling fan: 80mm (1 of 2)	P130-IS25090M
10	Top head cover (1 of 2)	P100-IS250THC
11	Gobo rotation stepper motor	P110-IS250GBSM
12	Prism stepper motor	P110-IS250CWA
13	Color wheel: assembled	P150-IS250CWA
14	Focus stepper motor	P110-IS250FSM
15	Gobo stepper motor	P110-IS250GSM
16	Color stepper motor	P110-IS250CSM
17	Shutter/dimmer stepper motor	P110-IS250SDSM
18	Shutter/dimmer assembly	P100-IS250SDA
19	Prism assembly	P115-IS250PA
20	Motor Driver PCB	P110-IS250MDP

Safety Instructions

⚠ Please read these instructions carefully, which includes important information about the installation, usage and maintenance of this product.

- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.
- This product is intended for indoor use only!
- To prevent risk of fire or shock, do not expose fixture to rain or moisture. Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 20in (50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing or replacing lamp or fuse and be sure to replace with same lamp source.
- Secure fixture to fastening device using a safety chain. Never carry the fixture solely by its head. Use its carrying handles.
- Maximum ambient temperature (Ta) is 104°F (40°C). Do not operate fixture at temperatures higher than this.
- In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- Never connect the device to a dimmer pack.
- Make sure the power cord is never crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to the light source while it is on.

Caution! **There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact CHAUVET at: 954-929-1115.**

Returns Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Merchandise Authorization Number (RMA #). Products returned without a RMA # will be refused. Call CHAUVET and request RMA # prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. CHAUVET reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given a RMA #, please include the following information on a piece of paper inside the box:

1)   Your name

2)   Your address

3)   Your phone number

4)   The RMA #

5)   A brief description of the symptoms

Claims

Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise. It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Any other claim for items such as missing component/part, damage not related to shipping, and concealed damage, must be made within seven (7) days of receiving merchandise.

DMX Channel Summary

Basic Mode

CHANNEL	FUNCTION
1	Pan
2	Tilt
3	Color
4	Gobo
5	Gobo rotation
6	Shutter
7	Dimmer
8	Effect
9	Prism
10	Focus

Advanced Mode

CHANNEL	FUNCTION
1	Pan coarse
2	Tilt coarse
3	Pan fine
4	Tilt fine
5	Pan/Tilt speed
6	Color
7	Gobo
8	Gobo rotation
9	Shutter
10	Dimmer
11	Mode/function
12	Effect
13	Prism
14	Focus

Intimidator Spot 250 Service Maintenance Guide

Symptom(s)	Possible Solution(s)
Lamp is not illuminating	Clean the fixture regularly to avoid any such failure. This fixture is forced convection cooled, which means that if the fans are kept clean and free of debris, then proper cooling will be allowed to occur
	Check the options in the display for Lamp function [on~off]. Also check the DMX signal. It is possible to remotely turn off the lamp with a DMX controller.
	Check to see if the lamp needs to be replaced. This is a wear item, and will need to be checked and replaced on a regular basis of operation.
Breaker/Fuse keeps blowing	Check total load placed on the electrical circuit
	Check for a short in the electrical wiring: internal and/or external
Device has no power	Check device's fuse (internal)
	Check for power on Mains
	-Note: In the event of magnetic transformer failure, the unit can be sent in for repair; however, a replacement part can be ordered directly from Chauvet Part#: P140-IS250TRAN
Fixture is not responding to DMX	Check Control Panel settings for correct addressing
	Check DMX cables
	Check polarity switch settings on the controller
	Check cable connections
	Call service technician
	-Note: In the event of Display/Master PCB failure, a replacement PCB can be ordered directly from Chauvet Part#: P170-IS250MAS
Loss of signal	Use only DMX cables
	Install terminator
	Note: Keep DMX cables separated from power cables or black lights
Pan/tilt movement, color, gobo reset problem	1 or more sensors may need to be adjusted or replaced. This may be either the optical sensor or the magnetic stopper sensor.
	Note In the event of a sensor failure, a replacement sensor may be ordered directly from Chauvet: Part#: Magnetic Pan: P170-IS250PSS Optical Pan: P170-IS250POS Magnetic Tilt: P110-IS250TSS Optical Tilt: P100-IS250TOS Gobo: P100-IS250GWS Gobo rotation: P100-IS250GRS Color: P100-IS250CWS
The display backlight will not turn off and stays lit	There is an option in the control board that determines if the display turns off after 30 seconds of inactivity, or if the display stays lit indefinitely. -See section "5-Display" in the onboard display "close".

If you still have a problem after trying the above solutions, please contact CHAUVET Technical Support at the location on the following page.

3. SETUP

Lamp

You will need to install a lamp prior to the initial operation of the fixture. A 250W MSD discharge lamp is included.

Warning!   ***When replacing the lamp, please wait 15 minutes after powering down to allow the unit to cool down! Always disconnect from main power prior to lamp replacement.***

Do not touch the envelope (glass area) of the bulb with bare hands. If this happens, clean the lamp with alcohol and wipe it with a lint free cloth before installation.

Maximizing the life of your lamp

To ensure the longest and most efficient use of the lamp always wait between 10 and 15 minutes before re-applying power after a shutdown.

Failure to do so could result in premature aging of the lamp and failure to the electronics that drive it.

Never turn off the power to the unit while the lamp is striking. Always wait 15 minutes after powering on the fixture before powering down. Turning off the lamp during striking may permanently damage the lamp.

	080 ⇔ 089	Reset all
	090 ⇔ 111	No function
	112 ⇔ 119	Lamp off
	120 ⇔ 127	Lamp on
	128 ⇔ 129	No function
	130 ⇔ 192	Auto program
	193 ⇔ 255	Sound program
		Prism
9	000 ⇔ 015	White
	016 ⇔ 239	Rotation (fast ⇔ slow)
	240 ⇔ 255	Stop, static prism effect
		Focus
10	0 ⇔ 255	Near ⇔ Far

⚠ Disconnect the power cord before replacing a fuse and always replace with the same type fuse. ⚠

Fuse Replacement

With a flat head screwdriver wedge the fuse holder out of its housing. Remove the damaged fuse from its holder and replace with exact same type fuse. Insert the fuse holder back in its place and reconnect power.

The fuse is located inside this compartment. Remove using a flat head screwdriver.

Replacing Gobos

1) Be sure the fixture is not powered or connected to mains.

2) Remove the top cover by removing the 4 screws with a Phillips #2 screwdriver.

3) With your hand, move the gobo wheel to the desired gobo to change.

4) Remove the slot-n-lock gobo by pressing it up and away of the gobo wheel and sliding it out of the fixture.

5) You may now replace the gobo easily by removing the tension ring. This may be done with a small tool.

6) Replace the slot-n-lock gobo assembly.

7) Replace top cover and 4 cover screws.

Top cover screws

2

3

4

Gobo Wheel

1 7
2 6
3 5
4

Slot-n-lock gobo holder   Gobo   Tension ring
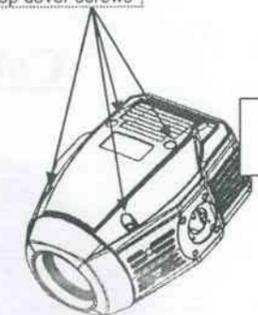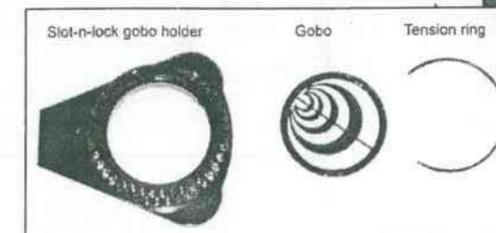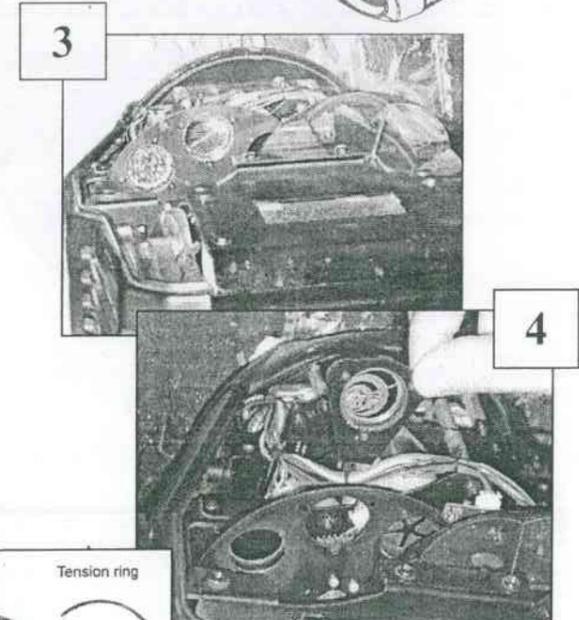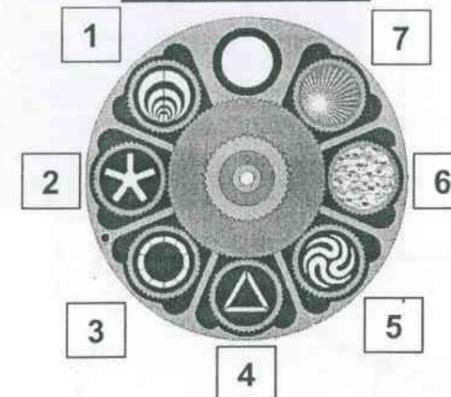
	015 ⇔ 019	Pan/tilt move-in-black (disable)
	020 ⇔ 024	Color wheel move-in-black
	025 ⇔ 029	Color wheel move-in-black (disabled)
	030 ⇔ 034	Gobo wheel move-in-black
	035 ⇔ 039	Gobo wheel move-in-black (disabled)
	040 ⇔ 044	All movement move-in-black
	045 ⇔ 049	All movement move-in-black (disabled)
	050 ⇔ 054	Reset pan/tilt
	055 ⇔ 059	Reset color wheel
	060 ⇔ 064	Reset gobo wheel
	065 ⇔ 069	Reset shutter
	070 ⇔ 074	Reset focus
	075 ⇔ 079	Reset prism
	080 ⇔ 089	Reset all
	090 ⇔ 111	No function
	112 ⇔ 119	Lamp off
	120 ⇔ 127	Lamp on
	128 ⇔ 129	No function
	130 ⇔ 192	Auto program
	193 ⇔ 255	Sound program
		Effect
	000 ⇔ 009	No function
	010 ⇔ 019	Effect 1
	020 ⇔ 029	Effect 2
	030 ⇔ 039	Effect 3
	040 ⇔ 049	Effect 4
	050 ⇔ 059	Effect 5
	060 ⇔ 069	Effect 6
	070 ⇔ 079	Effect 7
	080 ⇔ 089	Effect 8
	090 ⇔ 099	Effect 9
	100 ⇔ 109	Effect 10
	110 ⇔ 119	Effect 11
12	120 ⇔ 129	Effect 12
	130 ⇔ 139	Effect 13
	140 ⇔ 149	Effect 14
	150 ⇔ 159	Effect 15
	160 ⇔ 169	Effect 16
	170 ⇔ 179	Effect 17
	180 ⇔ 189	Effect 18
	190 ⇔ 199	Effect 19
	200 ⇔ 209	Effect 20
	210 ⇔ 219	Effect 21
	220 ⇔ 229	Effect 22
	230 ⇔ 239	Effect 23
	240 ⇔ 249	Effect 24
	250 ⇔ 255	Effect 25
		Prism
13	000 ⇔ 015	Open
	016 ⇔ 239	Rotation (slow ⇔ fast)
	240 ⇔ 255	Stop, static prism effect
		Focus
14	0 ⇔ 255	Near ⇔ Far

Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX-512 controller or to run synchronized shows on two or more fixtures set to a master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Important: Fixtures on a serial data link must be daisy chained in one single line. To comply with the EIA-485 standard no more than 32 devices should be connected on one data link. Connecting more than 32 fixtures on one serial data link without the use of a DMX optically-isolated splitter may result in deterioration of the digital DMX signal.

Maximum recommended serial data link distance: 500 meters (1640 ft.)
Maximum recommended number of fixtures on a serial data link: 32 fixtures

Data Cabling

To link fixtures together you must obtain data cables. You can purchase CHAUVET-certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.
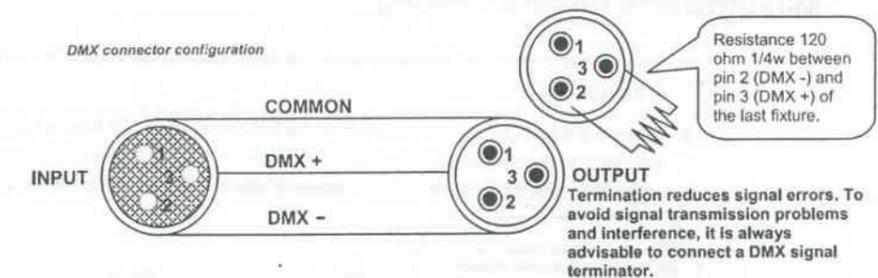
DMX Data Cable

Use a Belden© 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Standard microphone cables cannot transmit DMX data reliably over long distances. The cable will have the following characteristics:

> 2-conductor twisted pair plus a shield
> Maximum capacitance between conductors – 30 pF/ft.
> Maximum capacitance between conductor and shield – 55 pF/ft.
> Maximum resistance of 20 ohms / 1000 ft.
> Nominal impedance 100 – 140 ohms

Cable Connectors

Cabling must have a male XLR connector on one end and a female XLR connector on the other end.

DMX connector configuration

COMMON

INPUT
DMX +
DMX –

OUTPUT

Resistance 120 ohm 1/4w between pin 2 (DMX -) and pin 3 (DMX +) of the last fixture.

OUTPUT
Termination reduces signal errors. To avoid signal transmission problems and interference, it is always advisable to connect a DMX signal terminator.

CAUTION Do not allow contact between the common and the fixture's chassis ground. Grounding the common can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.

Operation

Stand-Alone Mode (Sound-Active, Auto Mode):

This mode allows a single unit to run to the beat of the music, or the unit will auto change in Auto Mode.

1) Set the fixture to the desired standalone mode by selecting it in the onboard menu.

2) Press **<MENU/ESC>** until you reach the "2- Run" option. Press **<ENTER>**.

3) Select the desired standalone program using the **<UP>** and/or **<DOWN>** buttons. Press **<ENTER>**.

Master/Slave Mode (Master Sound, Master Auto):

This mode will allow you to link up to 32 units together without a controller.

1) Use standard DMX cables to daisy chain your units together via the DMX connector on the rear of the units. For longer cable runs we suggest a terminator at the last fixture. For more information about terminators, see page 12.

2) Choose a unit to function as the Master. Adjust the options in the display of the master unit to one of the 3 Master Standalone modes: Auto, Sound, & Econtr. The unit must be the first unit in line. Then simply daisy chain the units together using DMX cable.

3) Set the "Run" to "Slave" on the slave units, and they will react the same as the Master.

DMX Mode

This mode allows the unit to be controlled by any universal DMX controller. If you are unfamiliar with DMX, please read the DMX Primer on Page 30.

1) Press **<MENU/ESC>** until you reach the "1-DMX Address".

2) Press **<ENTER>**.

3) Adjust your starting DMX address by using the **<UP>** and/or **<DOWN>** buttons..

4) Press **<MENU/ESC>** until you reach the "2- Run".

5) Press **<ENTER>**.

6) Using the **<UP>** and/or **<DOWN>** buttons, "Select: Slave".

7) Press **<ENTER>** button.

Mounting

Orientation

This fixture may be mounted in a vertical-hanging or in a floor-mounting-vertical position, provided there is adequate room for ventilation.

Rigging

It is important never to obstruct the fan or vents pathway. Mount the fixture using, a suitable "C" or "O" type clamp (CLP-15, CLP-06. Adjust the angle of the fixture by loosening both knobs and tilting the fixture. After finding the desired position, retighten both knobs.

Hanging Clamp

- When selecting installation location, take into consideration lamp replacement access and routine maintenance.
- Safety cables must always be used (CH-05).
- Never mount in places where the fixture will be exposed to rain, high humidity, extreme temperature changes or restricted ventilation.
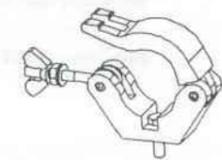
Note!
Clamp is sold separately.

Safety Cable
(CH-05)

302mm

50mm
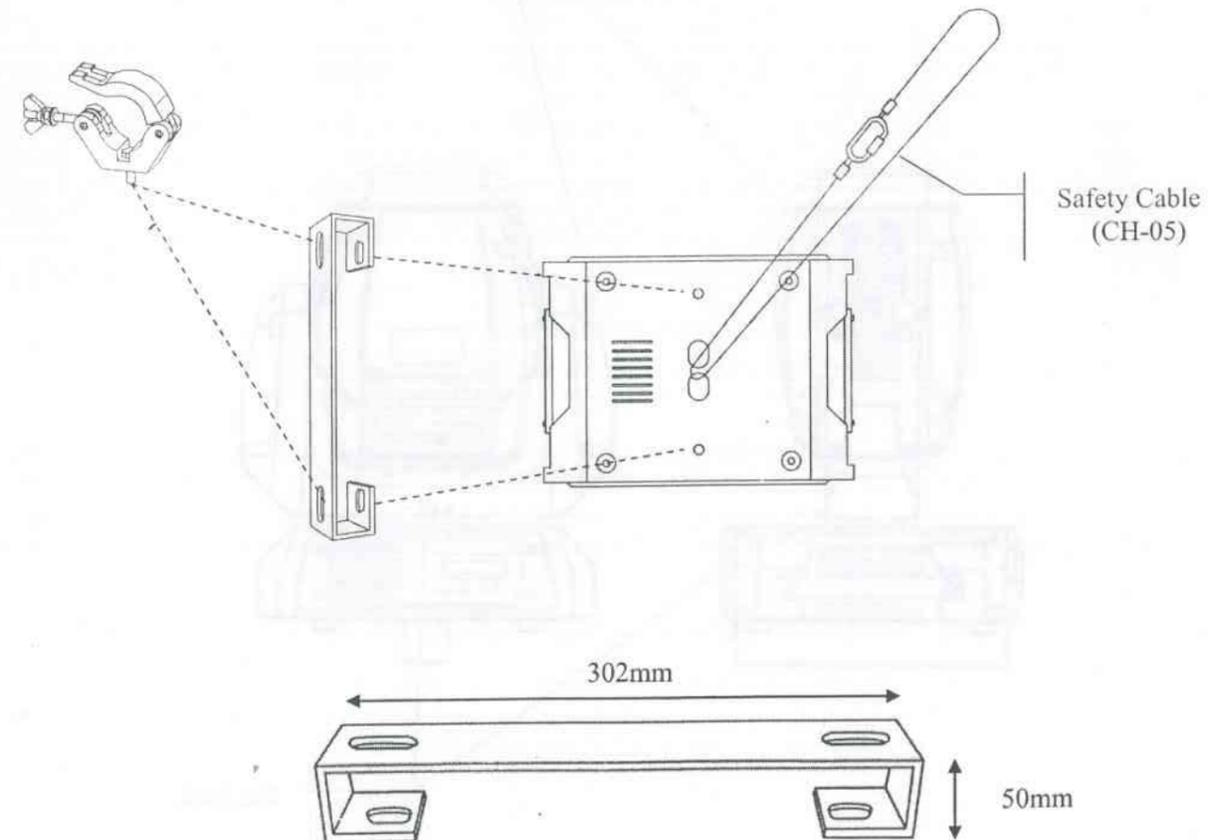
User Configurations

To set the pan to inverting or non-inverting:

1) Press the **<MENU/ESC>**.

2) Select the desired option by using the **<UP>** and/or **<DOWN>** button to navigate through the display until you reach "3-Pan".

2) Press the **<ENTER>** button.

Note: you may select "Normal" using the <UP and/or <DOWN buttons and press the <ENTER> button for non-inverting; or, you may select "Reverse" for inverting.

To set the tilt to inverting or non-inverting:

1) Press the **<MENU/ESC>**.

2) Select the desired option by using the **<UP>** and/or **<DOWN>** button to navigate through the display until you reach "4-Tilt".

2) Press the **<ENTER>** button.

Note: you may select "Normal" using the <UP> and/or <DOWN> buttons and press the <ENTER> button for non-inverting; or, you may select "Reverse" for inverting.

To activate/deactivate move-in-black function(s):

This fixture has a built-in function that will offer greater ease in programming. This is called the move-in-black function. This is the option of stating that the fixture will blackout (close shutter) between 2 different steps of operation via DMX. You may enable and disable this function remotely via the control channel in DMX operation. See the below instructions for this operation for the pan/tilt movement.

1) Using a DMX controller, bring channel 14 (in advanced mode) to a value of [010⇔014].

2) Hold this value for 3 seconds.

3) After 3 seconds, you may bring the channel back down to a value of [000].

4) The fixture now has saved this setting in the onboard memory and will retain it. If you wish to disable this function, then you may bring channel 14 to a value of [015⇔019].

You may follow the above steps for the pan/tilt, color, gobo, and combined movement by locating the corresponding DMX values in the DMX values section of this user manual.

4. OPERATING INSTRUCTIONS

Navigating the Control Panel

Access control panel functions using the four panel buttons located directly underneath the LCD Display.
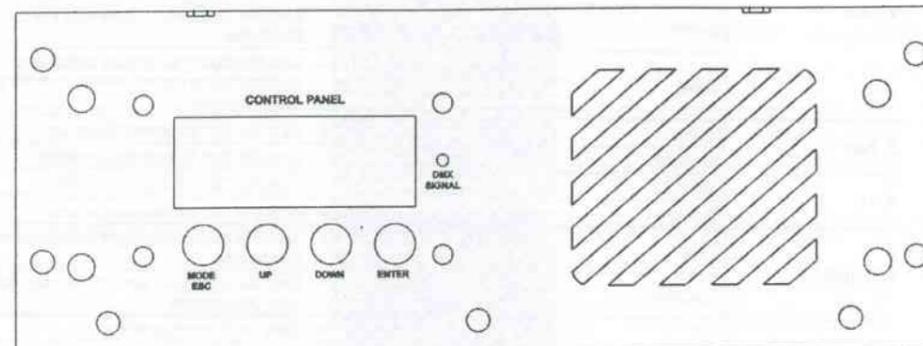
Button	Function
<MODE/ESC>	Used to access the menu or to return to a previous menu option
<UP>	Scrolls through menu options in ascending order
<DOWN>	Scrolls through menu options in descending order
<ENTER>	Used to select and store the current menu or option within a menu

The Control Panel LCD Display shows the menu items you select from the menu map on page #. When a menu function is selected, the display will show immediately the first available option for the selected menu function. To select a menu item, press **<ENTER>**.

Press the **<MENU/ESC>** button repeatedly until *MENU* appears on the top line of the display. This is the top of the menu map. What appears on the bottom line of the display is one of the four choices in the menu map. Use the **<UP>** and **<DOWN>** buttons to navigate the menu map and menu options. Press the **<ENTER>** button to access the menu function currently displayed or to enable a menu option. To return to the previous option or menu without changing the value, press the **<MODE/ESC>** button.