MENU

Menu	Display	Description
Addr	Sli2	DMX512 Address Setting
SLin	SL1	Slave Mode "Normal"
	SL2	Slave mode "2 Light Show"
Shou	Sh0 ... Sh16	Show Mode
SOun	on	Sound Mode on
	oFF	Sound Mode off
SenS	0 ... 100	Sound Sensitivity
bLnd	YES	Blackout Mode "Yes Blackout"
	no	Blackout Mode "No Blackout"
LEd	on	LED on
	oFF	LED off
diSP	diSP	Normal
	dSiP	Inversion
tESt		Self-test
FhrS		Fixture Hours
uEr		Software Version

Notice: Be sure to follow figures two and three when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.
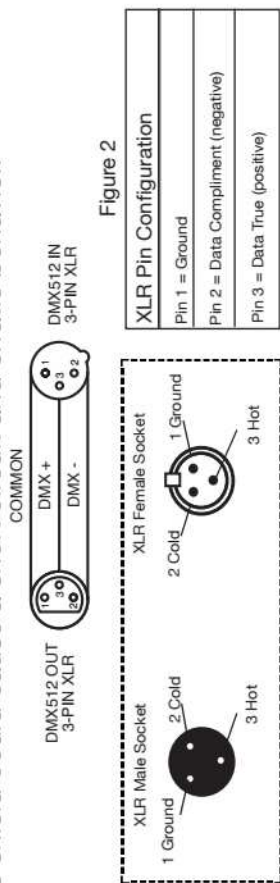
DMX512 OUT
3-PIN XLR

DMX512 IN
3-PIN XLR

COMMON
1 - GROUND
2 - DMX -
3 - DMX +

Figure 2

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Data Compliment (negative)
Pin 3 = Data True (positive)

XLR Male Socket
1 Ground
2 Cold
3 Hot

XLR Female Socket
1 Ground
2 Cold
3 Hot

Figure 3

Special Note: Line Termination. When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.
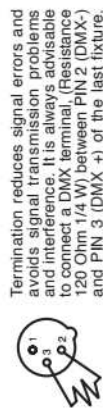
Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

Figure 4

5-Pin XLR DMX Connectors. Some manufactures use 5-pin DMX-512 data cables for DATA transmission in place of 3-pin. 5-pin DMX fixtures may be implemented in a 3-pin DMX line. When inserting standard 5-pin data cables in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The chart below details a proper cable conversion.

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use

On-Board System Menu. The Fusion FX Bar 5 comes with an easy to navigate system menu. This next section will detail the functions of each command in the system menu. ***Please read the next section thoroughly!***

To access the main menu press the MENU button. Tap the UP or DOWN buttons until you reach function you wish to change. When you reach the function you wish to change press the ENTER button. When a function is selected use the UP or DOWN buttons to change the function settings. Once your changes are made press the ENTER button, and then press and hold the MENU button for at least three seconds to confirm and lock the change into the system memory. If the MENU button is not pressed and held within eight seconds the fixture will automatically confirm and lock the change into the system memory. To exit without making any changes press the MENU button.

ADDR - DMX Address Setting via control board -

1. Press the MENU button until "ADDR" is displayed, press ENTER.

2. "X" will now be displayed, "X" represents the displayed address. Press the UP or DOWN buttons to find your desired address.

3. Press ENTER to confirm, then connect your DMX controller. **NOTE:** If after you connect your DMX controller the unit does not fall into DMX mode, press and hold the MENU button for at least 3 seconds.

SLND – This will let you set unit as a slave in a master/slave configuration.

1. Press the MENU button until "SLND" is displayed, press ENTER. Either "SL 1" or "SL 2" will be displayed.

2. Press the UP or DOWN buttons until your desired setting is displayed, press ENTER to confim.

NOTE: In a Master/Slave configuration you can make one fixture the Master and then set the next fixture to "SL 2", the

fixtures will now have contrast movement to each other.

SHND: SH 0 - SH 16 - Show modes 0 - 16 (Factory programs)

Show mode can run with or without sound active mode on. With sound active mode on, the shows will tend to run faster.

1. Press the MENU button until "SHND" is displayed, press ENTER.

2. "SH X" will now be displayed, "X" representing a number between 0-16. Shows 1-16 are preset shows, while "SH 0" is random show. Press the UP or DOWN buttons to find your desired show.

3. Press ENTER, and then press and hold the MENU button for at least 3 seconds to confirm.

SOUN - In this mode you can run in sound active mode.

1. Press the MENU button until "SOUN" is displayed, press ENTER.

2. Either "ON" or "OFF" will now be displayed. Press the UP or DOWN buttons to select one or the other.

3. When you have made your selection, press the ENTER, and then press and hold the MENU button for at least 3 seconds to confirm.

SENS – Sound sensitivity control.

1. Press the MENU button until "SENS" is displayed, press ENTER.

2. The display will show a number between 0-100. Press the UP or DOWN buttons to adjust the sound sensitivity. 0 being the least sensitive and 100 the most sensitive.

3. Press the ENTER, and then press and hold the MENU button for at least 3 seconds to confirm.

BLND - This will control blackout

1. Press the MENU button until "BLND" is displayed, press ENTER.
2. Either "YES" or "NO" will now be displayed. Press the UP or DOWN buttons to select one or the other.

3. Press ENTER, and then press and hold the MENU button for at least three seconds to confirm.

LED - With this function the LED display will turn off after 2 minutes.

1. Press the MENU button until "LED" is displayed, press ENTER.

2. Either "ON" or "OFF" will now be displayed. Press the UP or DOWN buttons to select "ON" to keep the LED display on at all times, or "OFF" to allow the LED display to turn off after 2 minutes. Press any button to turn on the LED display again.

3. Press ENTER, and then press and hold the MENU button for at least three seconds to confirm.

DISP - This will "flip" the LED display

1. Press the MENU button until "DISP" is displayed, press ENTER.

2. Press ENTER to "flip" the display. Press ENTER to "flip" it again. Press MENU when you have decided on your desired display setup.

TEST - This function will run a self test program.

1. Press the MENU button until "TEST" is displayed, press ENTER.

2. The fixture will now run a self test. Press the MENU button to exit.

FHRS - With this function you can display the running time of the unit.

1. Press the MENU button until "FHRS" is displayed, press ENTER.

2. The running time of the fixture will now be displayed. Press MENU to exit.

VER - This will display the software version

1. Press the MENU button until "VER" is displayed. Press the ENTER button and the software vesion will be displayed.

2. Press the MENU button to leave this function.

CAUTION IMPORTANT! When installing this projector, make sure that it is mounted in a manner that prevents the audience from looking directly into the beam, and the beam from striking the audience.

Universal DMX Control: This function allows you to use a Elation® universal DMX-512 controller to control the chases and patterns, dimmer and strobe. A DMX controller allows you to create unique programs tailored to your individual needs.

1. The Fusion FX Bar 5 is a 7 DMX channel unit. See pages 17-18 for a detailed description of the DMX traits.
2. To control your fixture in DMX mode, follow the set-up procedures on pages 8-9 as well as the set-up specifications that are included with your DMX controller.
3. Use the controller's faders to control the various DMX fixture traits.
4. This will allow you to create your own programs.
5. Follow the instructions on page 11 to set the DMX address then connect your DMX Controller.
6. For longer cable runs (more than a 100 feet) use a terminator on the last fixture.
7. For help operating in DMX mode consult the manual included with your DMX controller.

Master-Slave Operation: This function will allow you to link up to 16 units together and operate without a controller. In Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling units programs. Any unit can act as a Master or as a Slave.

1. Using appropriate XLR cables, daisy chain your units together via the XLR connector on the rear of the units. Remember the Male XLR connector is the input and the Female XLR connector is the output. The first unit in the chain (master) will use the female XLR connector only - The last unit in the chain will use the male XLR connector only. For longer cable runs we suggest a terminator at the last fixture.
2. On the Master unit find your desired show or choose sound acttive mode.
3. On the slave units tap the MENU button until "SLND" is displayed, and Press ENTER. Use the UP or DOWN buttons to switch

between either "SL1" or "SL2". Once you have made your choice, press ENTER. Please see page 11 for more info.
4. The slave units will now follow the Master unit.
5. The optional *UC3 Controller* (not included) may be used to control different functions including blackout.

Sound Active Mode: This mode allows a single unit or several units linked together, to run to the beat of the music.

1. Press the MENU button until "SOUN" is displayed, and press ENTER.
2. Press the UP or DOWN buttons until "ON" is displayed and press ENTER, and then press and hold the MENU button to confirm.
3. To adjust the sound sensitivity press the MENU button until "SENS" is displayed. Use the UP or DOWN buttons to adjust sensitivity. See page 12 for more info.
4. The optional *UC3 Controller* (not included) may be used to control different functions including blackout. See page 18 for UC3 controls and functions.

Show Mode: This mode allows a single unit or several units linked together, to run your desired factory show.

1. Press the MENU button until "SHND" is displayed, and press ENTER.
2. Press the UP or DOWN buttons until you find your desired show, press ENTER, then press and hold the MENU button to confirm.
3. The optional *UC3 Controller* (not included) may be used to control different functions including blackout. See page 18 for UC3 controls and functions.

Fusion FX Bar 5   **Power Cord Daisy Chain**

With this feature you can connect the fixtures to one another using the IEC input and output sockets. The quantity that can be connected is 10 fixtures maximum. After 10 fixtures you will need to use a new power outlet. They must be the same fixtures. DO NOT mix fixtures.