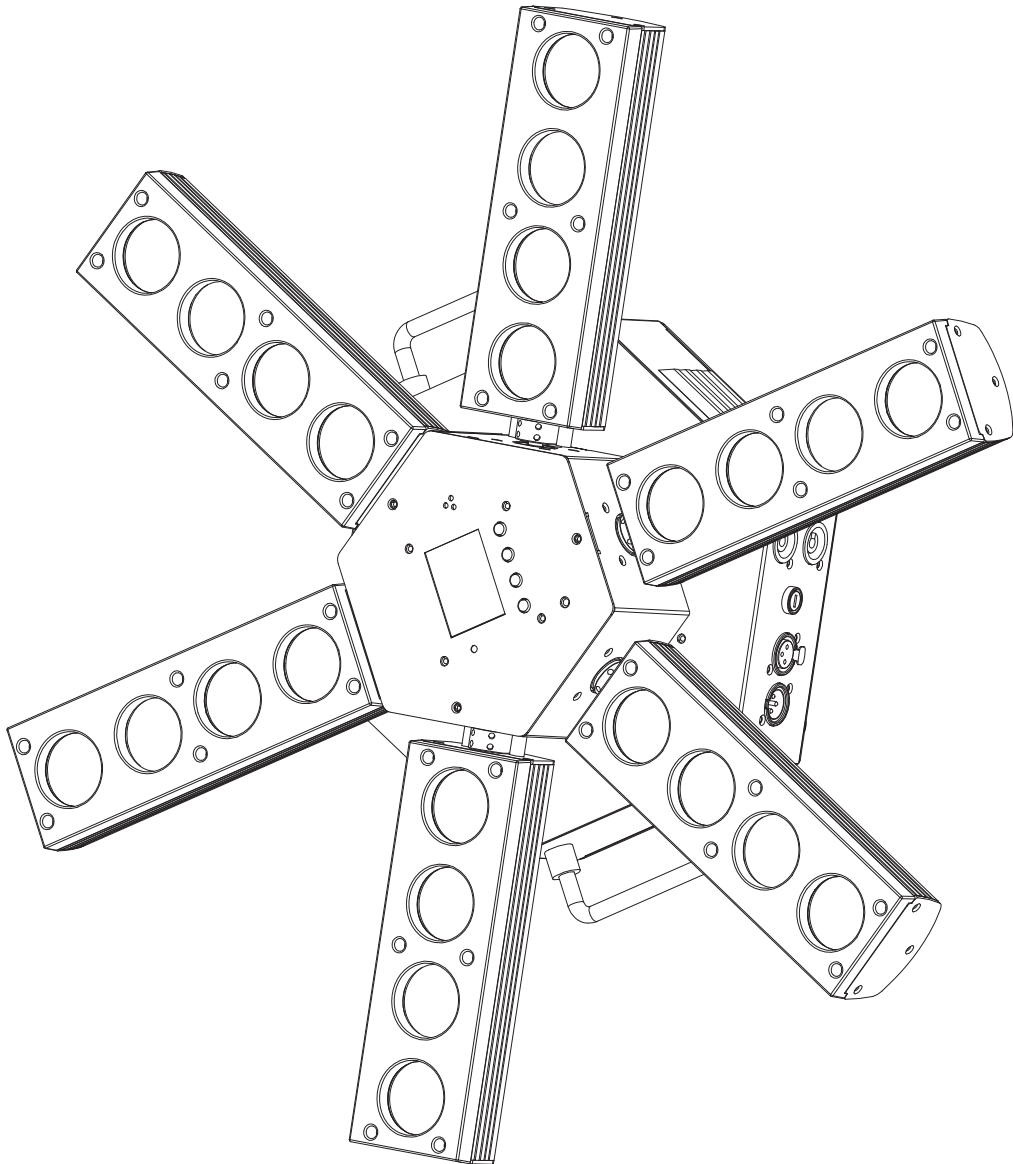




# STARSHIP



## ***User Instructions***

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#### **FCC STATEMENT**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### **FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS**

This product has been tested and found to comply with the limits as per Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device uses and can radiate radio frequency energy and, if not installed and used in accordance with the included instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

- Reorient or relocate the device.
- Increase the separation between the device and the receiver.
- Connect the device to an electrical outlet on a circuit different from which the radio receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **DOCUMENT VERSION**

Due to additional product features and/or enhancements, an updated version of this document may be available online.

Please check [www.adj.com](http://www.adj.com) for the latest revision/update of this manual before beginning installation and/or programming.

<b>Date</b>	<b>Document Version</b>	<b>Software Version <math>\geq</math></b>	<b>DMX Channel Mode</b>	<b>Notes</b>
08/02/19	1	1.1	22/120	Initial Version

Europe Energy Saving Notice

Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

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**Unpacking:** Thank you for purchasing the Starship by ADJ Products, LLC. Every Starship has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit has arrived intact. In the case damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Do not return this unit to your dealer without first contacting customer support.

**Introduction:** The ADJ Starship is a DMX intelligent, centerpiece effect light. To optimize the performance of this product, please read these operating instructions carefully to familiarize yourself with the basic operations of this unit. ***This product is intended to be used by professionally trained personnel only and is not suitable for private use.***

These instructions contain important safety information regarding the use and maintenance of this unit. Please keep this manual with the unit, for future reference.

**Customer Support:** Contact ADJ Service for any product related service and support needs. Also visit [forums.adj.com](http://forums.adj.com) with questions, comments or suggestions.

**Parts:** To purchase parts online visit:

<http://parts.adj.com> (US)

<http://www.adjparts.eu> (EU)

**ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST**

Voice: 800-322-6337 | Fax: 323-832-2941 | [support@adj.com](mailto:support@adj.com)

**ADJ SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET**

Voice: +31 45 546 85 60 | Fax: +31 45 546 85 96 | [support@adj.eu](mailto:support@adj.eu)

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#### **ADJ PRODUCTS GROUP Mexico**

AV Santa Ana 30 Parque Industrial Lerma, Lerma, Mexico 52000

+52 (728) 282-7070

**Caution!** There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact ADJ Products, LLC.

***PLEASE recycle the shipping carton when ever possible.***

## Starship

## Features

- Multi-Colors
- Multiple Operating Modes
- Electronic Dimming 0-100%
- Built in Microphone
- DMX-512 protocol
- 3-Pin DMX Connection
- 2 DMX Modes: 22 Channel Mode and 120 Channel Mode
- Multiple Unit Power Linking (See page 28)

Included:

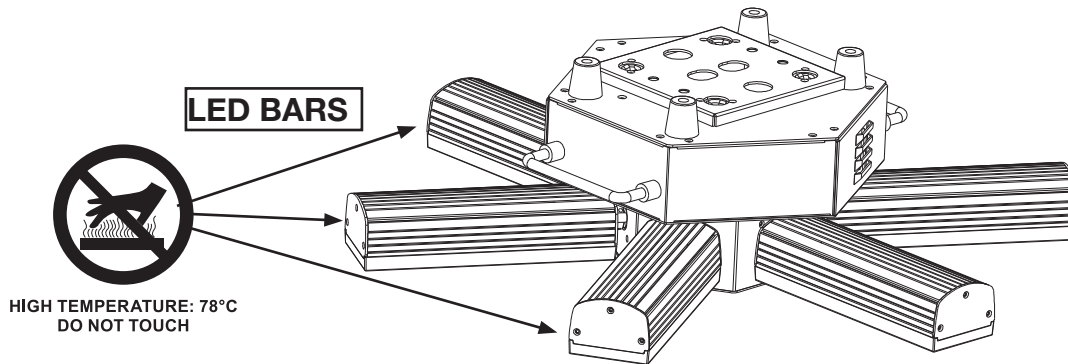
1 x Twist Lock Power Cable

2 x Omega Brackets

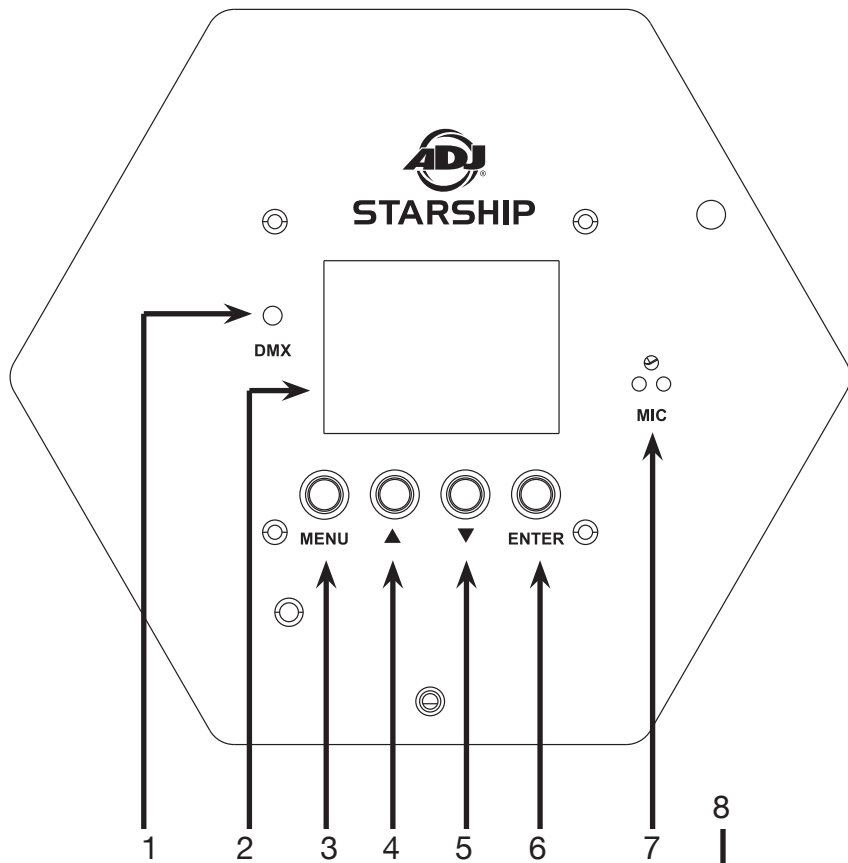
## Starship

## Warranty Registration

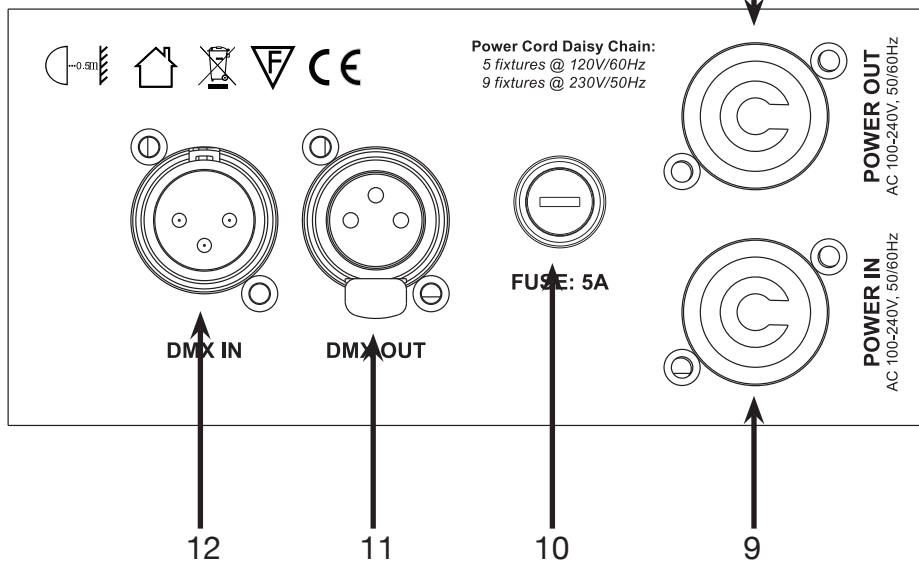
The Starship carries a 2 year limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper included in the shipping carton. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. You may obtain a R.A. number by contacting our customer support team on our customer support number. All packages returned to the service department not displaying a R.A. number on the outside of the package will be returned to the shipper.

**CAUTION! DO NOT TOUCH LED BARS WHILE FIXTURE IS IN USE OR POWERED. HOT!**

- To reduce the risk of electrical shock or fire, do not expose this unit rain or moisture
- Do not spill water or other liquids into or on to your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken. Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.
- Never operate this unit when it's cover is removed.
- Never plug this unit in to a dimmer pack
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit, if it becomes damaged.
- This unit is intended for indoor use only, use of this product outdoors voids all warranties.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point they exit from the unit.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See page 28 for cleaning details.
- Heat -The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:
  - A. The power-supply cord or the plug has been damaged.
  - B. Objects have fallen, or liquid has been spilled into the fixture.
  - C. The fixture has been exposed to rain or water.
  - D. The fixture does not appear to operate normally or exhibits a marked change in performance.
  - E. The fixture has fallen and/or subjected to extreme handling.



1. DMX Signal Indicator
2. LED Display
3. MENU Button
4. UP Button
5. DOWN Button
6. ENTER Button
7. Microphone
8. Twist Lock Power Out
9. Twist Lock Power In
10. Fuse (5A)
11. 3-Pin DMX Out
12. 3-Pin DMX In



**OVERHEAD RIGGING**

The Starship is fully operational in three different mounting positions, hanging upside-down, mounted sideways on trussing, or set on a flat level surface. Be sure this fixture is kept at least 12m (40ft) away from any flammable materials (decoration etc.). Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails (see next page). Never use the carrying handles for secondary attachment. When installing the unit, the trussing or area of installation must be able to hold 10 times the weight without any deformation. When installing the unit must be secured with a secondary safety attachment, e.g. and appropriate safety cable. Never stand directly below the unit when mounting, removing, or servicing the unit.

Overhead mounting requires extensive experience, including calculating working load limits, installation material being used, and periodic safety inspection of all installation material and unit. If you lack these qualifications, do not attempt the installation yourself.

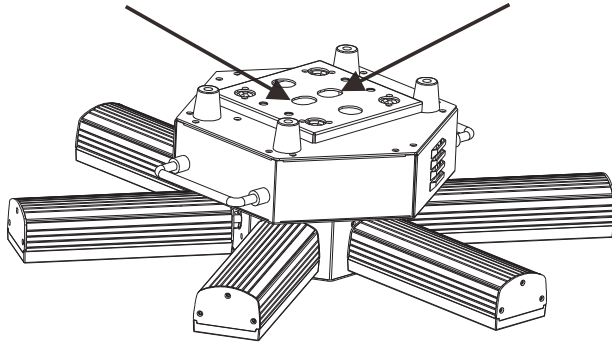
These installation should be checked by a skilled person once a year.

**CLAMP INSTALLATION**

Screw one clamp via a M12 screw and nut into the Omega holder. Insert the quick-lock fasteners of the Omega holder into the respective holes of the mounting plate. Tighten the quick-lock fasteners fully clockwise. Pull the safety-cable through the two rigging points located on the bottom of the unit and over the trussing system or a safe fixation spot. Insert the end in the carabine and tighten the safety screw.



SAFETY CABLE ATTACHMENT POINTS

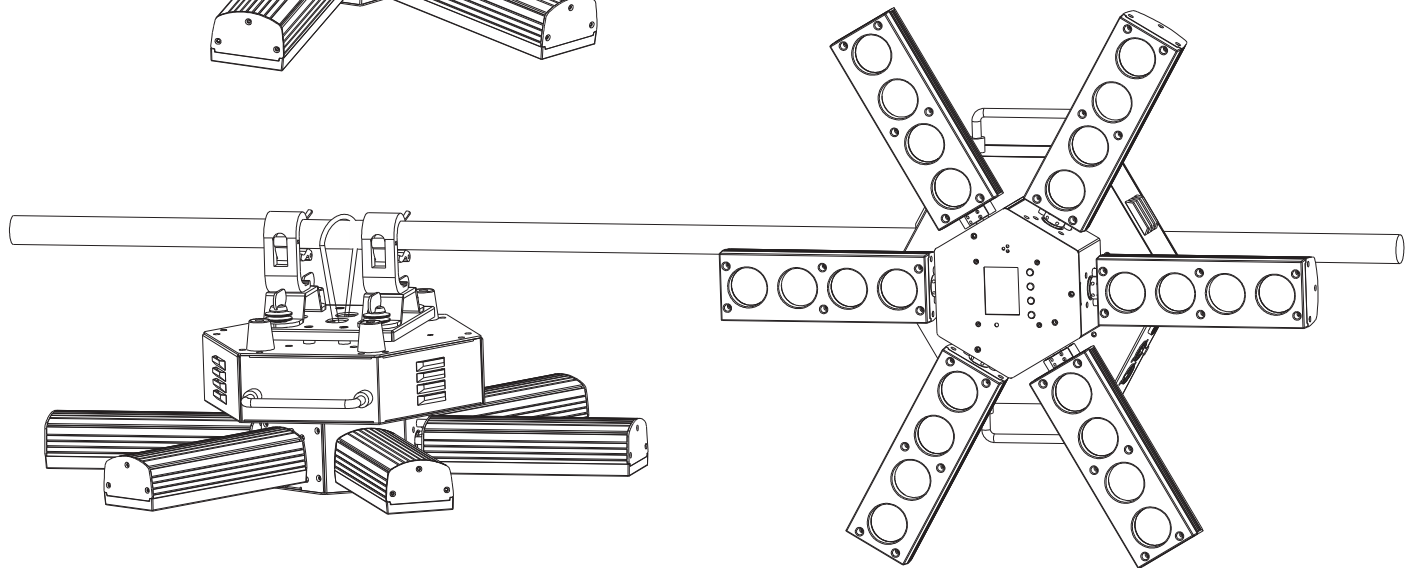
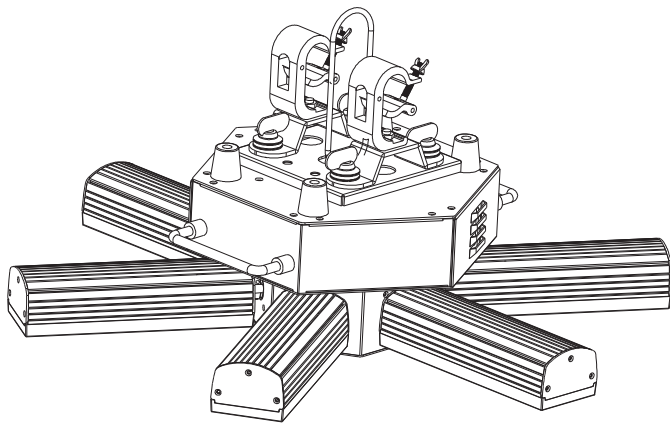
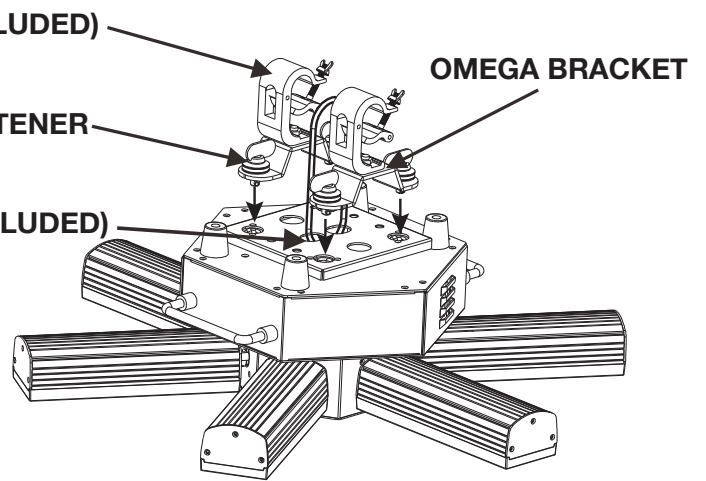


CLAMP (NOT INCLUDED)

QUICK-LOCK FASTENER

SAFETY CABLE (NOT INCLUDED)

OMEGA BRACKET



**DMX-512:** DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals located on all DMX fixtures (most controllers only have a DATA “OUT” terminal).

**DMX Linking:** DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

**Data Cable (DMX Cable) Requirements (For DMX Operation):** The Starship can be controlled via DMX-512 protocol. The DMX address is set on the top panel of the unit. Your unit and your DMX controller require a standard 3-pin XLR connector for data input and data output (Figure 1). We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all pro lighting stores). Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and cannot be split.

**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.



Figure 1

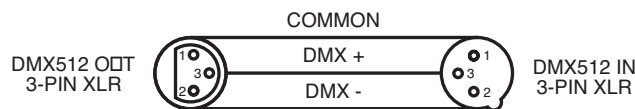


Figure 2

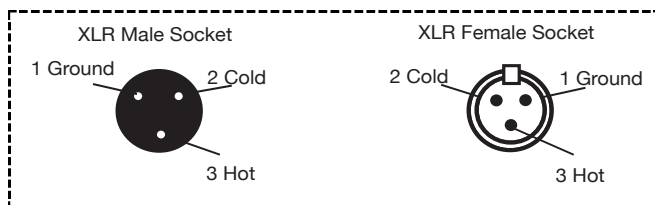
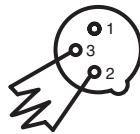


Figure 3

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

**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

**DMX ADDRESSING**

All fixtures should be given a DMX starting address when using a DMX controller, so the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to “listen” to the digital control signal sent out from the DMX controller. The assignment of this starting DMX address is achieved by setting the correct DMX address on the digital control display on the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture. Setting all fixtures to the same DMX address will cause all fixtures to react in the same way, in other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will start to “listen” to the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

In the case of the Starship, when in 22 Channel you should set the starting DMX address of the first unit to 1, the second unit to 23 (22 + 1), the third unit to 45 (23 + 22), and so on. (See the chart below for more details.)

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
22 Channels	1	23	45	67
120 Channels	1	121	241	361

22 Channels	120 Channels	Values	Functions
1	1	000-255	<b>TILT 1</b> 0-95°
	2	000-255	<b>TILT 1 FINE</b>
2	3	000-255	<b>TILT 2</b> 0-95°
	4	000-255	<b>TILT 2 FINE</b>
3	5	000-255	<b>TILT 3</b> 0-95°
	6	000-255	<b>TILT 3 FINE</b>
4	7	000-255	<b>TILT 4</b> 0-95°
	8	000-255	<b>TILT 4 FINE</b>
5	9	000-255	<b>TILT 5</b> 0-95°
	10	000-255	<b>TILT 5 FINE</b>
6	11	000-255	<b>TILT 6</b> 0-95°
	12	000-255	<b>TILT 6 FINE</b>
7		000-255	<b>RED ALL</b> 0%-100%
8		000-255	<b>GREEN ALL</b> 0%-100%
9		000-255	<b>BLUE ALL</b> 0%-100%
10		000-255	<b>WHITE ALL</b> 0%-100%
	13	000-255	<b>RED (ZONE 1)</b> 0%-100%
	14	000-255	<b>GREEN (ZONE 1)</b> 0%-100%
	15	000-255	<b>BLUE (ZONE 1)</b> 0%-100%
	16	000-255	<b>WHITE (ZONE 1)</b> 0%-100%
	17	000-255	<b>RED (ZONE 2)</b> 0%-100%
	18	000-255	<b>GREEN (ZONE 2)</b> 0%-100%
	19	000-255	<b>BLUE (ZONE 2)</b> 0%-100%
	20	000-255	<b>WHITE (ZONE 2)</b> 0%-100%
	21	000-255	<b>RED (ZONE 3)</b> 0%-100%
	22	000-255	<b>GREEN (ZONE 3)</b> 0%-100%
	23	000-255	<b>BLUE (ZONE 3)</b> 0%-100%
	24	000-255	<b>WHITE (ZONE 3)</b> 0%-100%
	25	000-255	<b>RED (ZONE 4)</b> 0%-100%
	26	000-255	<b>GREEN (ZONE 4)</b> 0%-100%
	27	000-255	<b>BLUE (ZONE 4)</b> 0%-100%
	28	000-255	<b>WHITE (ZONE 4)</b> 0%-100%
	29	000-255	<b>RED (ZONE 5)</b> 0%-100%
	30	000-255	<b>GREEN (ZONE 5)</b> 0%-100%
	31	000-255	<b>BLUE (ZONE 5)</b> 0%-100%
	32	000-255	<b>WHITE (ZONE 5)</b> 0%-100%

22 Channels	120 Channels	Values	Functions
	33	000-255	<b>RED (ZONE 6)</b> 0%-100%
	34	000-255	<b>GREEN (ZONE 6)</b> 0%-100%
	35	000-255	<b>BLUE (ZONE 6)</b> 0%-100%
	36	000-255	<b>WHITE (ZONE 6)</b> 0%-100%
	37	000-255	<b>RED (ZONE 7)</b> 0%-100%
	38	000-255	<b>GREEN (ZONE 7)</b> 0%-100%
	39	000-255	<b>BLUE (ZONE 7)</b> 0%-100%
	40	000-255	<b>WHITE (ZONE 7)</b> 0%-100%
	41	000-255	<b>RED (ZONE 8)</b> 0%-100%
	42	000-255	<b>GREEN (ZONE 8)</b> 0%-100%
	43	000-255	<b>BLUE (ZONE 8)</b> 0%-100%
	44	000-255	<b>WHITE (ZONE 8)</b> 0%-100%
	45	000-255	<b>RED (ZONE 9)</b> 0%-100%
	46	000-255	<b>GREEN (ZONE 9)</b> 0%-100%
	47	000-255	<b>BLUE (ZONE 9)</b> 0%-100%
	48	000-255	<b>WHITE (ZONE 9)</b> 0%-100%
	49	000-255	<b>RED (ZONE 10)</b> 0%-100%
	50	000-255	<b>GREEN (ZONE 10)</b> 0%-100%
	51	000-255	<b>BLUE (ZONE 10)</b> 0%-100%
	52	000-255	<b>WHITE (ZONE 10)</b> 0%-100%
	53	000-255	<b>RED (ZONE 11)</b> 0%-100%
	54	000-255	<b>GREEN (ZONE 11)</b> 0%-100%
	55	000-255	<b>BLUE (ZONE 11)</b> 0%-100%
	56	000-255	<b>WHITE (ZONE 11)</b> 0%-100%
	57	000-255	<b>RED (ZONE 12)</b> 0%-100%
	58	000-255	<b>GREEN (ZONE 12)</b> 0%-100%
	59	000-255	<b>BLUE (ZONE 12)</b> 0%-100%
	60	000-255	<b>WHITE (ZONE 12)</b> 0%-100%
	61	000-255	<b>RED (ZONE 13)</b> 0%-100%
	62	000-255	<b>GREEN (ZONE 13)</b> 0%-100%
	63	000-255	<b>BLUE (ZONE 13)</b> 0%-100%
	64	000-255	<b>WHITE (ZONE 13)</b> 0%-100%
	65	000-255	<b>RED (ZONE 14)</b> 0%-100%
	66	000-255	<b>GREEN (ZONE 14)</b> 0%-100%
	67	000-255	<b>BLUE (ZONE 14)</b> 0%-100%
	68	000-255	<b>WHITE (ZONE 14)</b> 0%-100%
	69	000-255	<b>RED (ZONE 15)</b> 0%-100%
	70	000-255	<b>GREEN (ZONE 15)</b> 0%-100%
	71	000-255	<b>BLUE (ZONE 15)</b> 0%-100%
	72	000-255	<b>WHITE (ZONE 15)</b> 0%-100%
	73	000-255	<b>RED (ZONE 16)</b> 0%-100%
	74	000-255	<b>GREEN (ZONE 16)</b> 0%-100%
	75	000-255	<b>BLUE (ZONE 16)</b> 0%-100%
	76	000-255	<b>WHITE (ZONE 16)</b> 0%-100%

22 Channels	120 Channels	Values	Functions
	77	000-255	<b>RED (ZONE 17)</b> 0%-100%
	78	000-255	<b>GREEN (ZONE 17)</b> 0%-100%
	79	000-255	<b>BLUE (ZONE 17)</b> 0%-100%
	80	000-255	<b>WHITE (ZONE 17)</b> 0%-100%
	81	000-255	<b>RED (ZONE 18)</b> 0%-100%
	82	000-255	<b>GREEN (ZONE 18)</b> 0%-100%
	83	000-255	<b>BLUE (ZONE 18)</b> 0%-100%
	84	000-255	<b>WHITE (ZONE 18)</b> 0%-100%
	85	000-255	<b>RED (ZONE 19)</b> 0%-100%
	86	000-255	<b>GREEN (ZONE 19)</b> 0%-100%
	87	000-255	<b>BLUE (ZONE 19)</b> 0%-100%
	88	000-255	<b>WHITE (ZONE 19)</b> 0%-100%
	89	000-255	<b>RED (ZONE 20)</b> 0%-100%
	90	000-255	<b>GREEN (ZONE 20)</b> 0%-100%
	91	000-255	<b>BLUE (ZONE 20)</b> 0%-100%
	92	000-255	<b>WHITE (ZONE 20)</b> 0%-100%
	93	000-255	<b>RED (ZONE 21)</b> 0%-100%
	94	000-255	<b>GREEN (ZONE 21)</b> 0%-100%
	95	000-255	<b>BLUE (ZONE 21)</b> 0%-100%
	96	000-255	<b>WHITE (ZONE 21)</b> 0%-100%
	97	000-255	<b>RED (ZONE 22)</b> 0%-100%
	98	000-255	<b>GREEN (ZONE 22)</b> 0%-100%
	99	000-255	<b>BLUE (ZONE 22)</b> 0%-100%
	100	000-255	<b>WHITE (ZONE 22)</b> 0%-100%
	101	000-255	<b>RED (ZONE 23)</b> 0%-100%
	102	000-255	<b>GREEN (ZONE 23)</b> 0%-100%
	103	000-255	<b>BLUE (ZONE 23)</b> 0%-100%
	104	000-255	<b>WHITE (ZONE 23)</b> 0%-100%
	105	000-255	<b>RED (ZONE 24)</b> 0%-100%
	106	000-255	<b>GREEN (ZONE 24)</b> 0%-100%
	107	000-255	<b>BLUE (ZONE 24)</b> 0%-100%
	108	000-255	<b>WHITE (ZONE 24)</b> 0%-100%
			<b>COLOR MACROS</b>
		000-007	No Function
		008-039	Red - Yellow
		040-071	Yellow - Green
		072-103	Green - Cyan
		104-135	Cyan - Blue
		136-167	Blue - Purple
		168-189	Purple - Red
		190-231	Red - Red & White
		232-255	Color Change Fast - Slow
11	109		

22 Channels	120 Channels	Values	Functions
12	110		<b>CTO MACROS<sup>(1)</sup></b>
		000-007	No Function
		008-013	CTO2400K
		014-019	CTO2800K
		020-025	CTO3200K
		026-031	CTO3600K
		032-037	CTO4000K
		038-043	CTO4400K
		044-049	CTO4800K
		050-055	CTO5200K
		056-061	CTO5600K
		062-067	CTO6000K
		068-073	CTO6400K
		074-079	CTO6800K
		080-085	CTO7200K
		086-091	CTO7600K
		092-103	CTO8000K
		104-111	Color Mix 1
		112-119	Color Mix 2
		120-127	Color Mix 3
		128-135	Color Mix 4
		136-143	Color Mix 5
		144-151	Color Mix 6
		152-159	Color Mix 7
		160-167	Color Mix 8
		168-175	Color Mix 9
		176-183	Color Mix 10
		184-191	Color Mix 11
		192-199	Color Mix 12
200-207	Color Mix 13		
208-215	Color Mix 14		
216-223	Color Mix 15		
224-231	Color Mix 16		
232-239	Color Mix 17		
240-247	Color Mix 18		
248-255	Color Mix 19		
13	111	000-255	<b>BOTTOM COLOR DIMMER</b> 0% - 100%
14	112		<b>BOTTOM COLOR MACRO<sup>(2)</sup></b>
		000-031	No Function
		032-063	Red - Yellow
		064-095	Yellow - Green
		096-127	Green - Cyan
		128-159	Cyan - Blue
		160-191	Blue - Purple
		192-223	Purple - Red
224-255	Red - Red & White		
15	113		<b>STROBE &amp; SHUTTER</b>
		000-031	Shutter Closed
		032-063	Shutter Open
		064-095	Strobe Effect Slow - Fast
		096-127	Shutter Open
		128-159	Pulse Effect in Sequences
		160-191	Shutter Open
		192-223	Random Strobe Slow - Fast
224-255	Shutter Open		



22 Channels	120 Channels	Values	Functions
16	114	000-255	<b>MASTER DIMMER</b> 0% - 100%
17	115	000-255	<b>MASTER DIMMER FINE</b> 0% - 100%
18	116		<b>DIMMER MODES</b>
		000-020	Standard
		021-040	Stage
		041-060	TV
		061-080	Architectural
		081-100	Theatre
		101-120	Stage 2
			<b>DIMMER DELAY TIME</b>
		121	0.1Sec.
		122	0.2Sec.
		123	0.3Sec.
		124	0.4Sec.
		125	0.5Sec.
		126	0.6Sec.
		127	0.7Sec.
		128	0.8Sec.
		129	0.9Sec.
		130	1.0Sec.
		131	1.5Sec.
		132	2.0Sec.
		133	3.0Sec.
		134	4.0Sec.
		135	5.0Sec.
136	6.0Sec.		
137	7.0Sec.		
138	8.0Sec.		
139	9.0Sec.		
140	10Sec.		
	000-255	Default to Unit Setting	

22 Channels	120 Channels	Values	Functions
19	117		<b>SHAPE MODE</b>
		000-007	No Function
		008-012	Static Scene 1
		013-017	Static Scene 2
		018-022	Static Scene 3
		023-027	Static Scene 4
		028-032	Static Scene 5
		033-037	Static Scene 6
		038-042	Static Scene 7
		043-047	Static Scene 8
		048-052	Static Scene 9
		053-057	Static Scene 10
		058-062	Static Scene 11
		063-067	Static Scene 12
		068-072	Static Scene 13
		073-077	Static Scene 14
		078-082	Static Scene 15
		083-087	Static Scene 16
		088-092	Static Scene 17
		093-097	Static Scene 18
		098-102	Static Scene 19
		103-107	Static Scene 20
		108-112	Static Scene 21
		113-117	Static Scene 22
		118-122	Static Scene 23
		123-127	Static Scene 24
		128-132	Static Scene 25
		133-138	Dynamic Scene 1
		139-144	Dynamic Scene 2
		145-150	Dynamic Scene 3
		151-156	Dynamic Scene 4
157-162	Dynamic Scene 5		
163-168	Dynamic Scene 6		
169-174	Dynamic Scene 7		
175-180	Dynamic Scene 8		
181-186	Dynamic Scene 9		
187-192	Dynamic Scene 10		
193-198	Dynamic Scene 11		
199-204	Dynamic Scene 12		
205-210	Dynamic Scene 13		
211-216	Dynamic Scene 14		
217-222	Dynamic Scene 15		
223-228	Dynamic Scene 16		
229-234	Dynamic Scene 17		
235-240	Dynamic Scene 18		
241-246	Dynamic Scene 19		
247-252	Dynamic Scene 20		
253-255	Dynamic Scene 21		

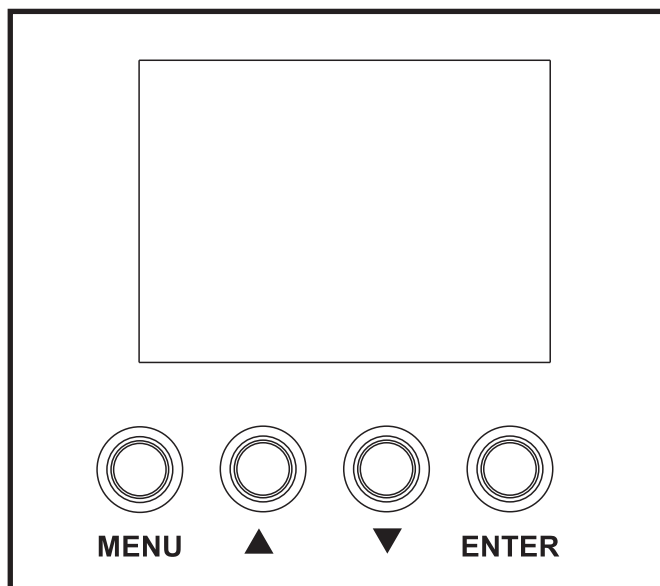
22 Channels	120 Channels	Values	Functions
20	118	000-127 128-255	<b>DYNAMIC SCENE SPEED &amp; DIRECTION</b> Clockwise Slow - Fast Counter-Clockwise Slow - Fast
21	119	000-255	<b>TILT SPEED</b> Fast - Slow
22	120		<b>SPECIAL FUNCTIONS</b>
		000-195	No Function
		196-200	Reset
		201-207	Auto Program 1
		208-214	Auto Program 2
		215-220	Auto Program 3
		221-249	Sound Active
	250-255	No Function	

**NOTES:**

1. Channel 12 “CTO Macros” Channel works with Channel 19 “Shape Mode”.
2. Channel 14 “Bottom Color Macro” works with Channel 12 “CTO Macros” and Channel 19 “Shape Mode”.

## SYSTEM MENU

The fixture includes an easy to navigate system menu control panel display where all necessary settings and adjustments are made. (See image below) During normal operation, pressing the **MENU** button once will access the fixture's main menu. Once in the main menu, you can navigate through the different functions and access the sub-menus with the **UP** and **DOWN** buttons. When you reach a field that requires adjusting, press the **ENTER** button to access that field and use the **UP** and **DOWN** buttons to adjust the field. Pressing the **ENTER** button once more will confirm your setting. You may exit the main menu at any time without making any adjustments by pressing the **MENU** button.



MENU	SUBMENU	OPTIONS	DESCRIPTION	
DMX Settings	DMX Address	001~XXX	DMX Addressing	
	DMX CH Mode	22Ch / 120Ch	DMX Channel Mode Selection	
	No DMX Status	Hold Last / Blackout / Auto / Sound / Manual	DMX Lost Status	
Personality	Master	On / Off		
	Slave	On / Off		
	Status Settings	Tilt 1 Invert: On / Off		Reverse Tilt 1 Motion
		Tilt 2 Invert: On / Off		Reverse Tilt 2 Motion
		Tilt 3 Invert: On / Off		Reverse Tilt 3 Motion
		Tilt 4 Invert: On / Off		Reverse Tilt 4 Motion
		Tilt 5 Invert: On / Off		Reverse Tilt 5 Motion
		Tilt 6 Invert: On / Off		Reverse Tilt 6 Motion
		Tilt Speed: Speed 1~4		Tilt Movement Speed
	Dim Modes	Standard / Stage / TV / Architectural / Theatre / Stage2		Dimmer Curve Modes
		Dim Speed 0.1-10S		Dimming Speed
	LED Refresh Rate	900~1500 / 2500 / 4000 / 5000 / 6000 / 10KHz / 15KHz / 20KHz / 25KHz		LED Refresh Rate
	Gamma	1.0 / 2.0 / 2.2 / 2.4 / 2.6 / 2.8		Gamma Brightness
	Reset All Motors	Yes / No		Reset All Motors
	Display	Intensity: 1~10 (Dimmest-Brightest)		Display Backlight Brightness
		Display Invert: Yes / No		Display Readout Inversion
		Screen Saver Delay: Off~10Mins		Display Blackout
Display Lock: On / Off			Display Control Lock	
Service (Pass Code = 50)	Calibration		Calibration	
	Factory Restore: Yes / No - Pass Code = 011		Restore Factory Settings	
Manual Control	Tilt 1-6	000-255	Manual Control	
	Red All	000-255		
	Green All	000-255		
	Blue All	000-255		
	White All	000-255		
	Red 1-24	000-255		
	Green 1-24	000-255		
	Blue 1-24	000-255		
	White 1-24	000-255		
	Color Macro	000-255		
	CTO Macro	000-255		
	Back ClrD	000-255		
	Back ClrM	000-255		
	Strobe	000-255		
	Dimmer	000-255		
	Dimmer Fine	000-255		
	Dimmer Mode	000-255		
	Shape Mode	000-255		
	Shape Speed	000-255		
	Tilt Speed	000-255		
Ctrl Function	000-255			

MENU	SUBMENU	OPTIONS	DESCRIPTION
Auto	Sound Active	On / Off	Sound Active Mode
	Sound Sense	0-100 (Least Sensitive-Most Sensitive)	Sound Sensitivity Setting
	Slave Mode	Slave 1 / Slave 2 / Slave 3	Slave Setting
Information	Fixture Life Time	Power On Time: XXXXXX Hours	Total Running Time (Not Resettable)
		P-On Time-R: XXXXXX Hours	Total Running Time (Resettable)
		P-On Time Reset: <b>Pass Code = 050</b>	Reset Total Running Time
	Total LED Time	LED On Time: XXXXXX Hours	Total LED On Running Time (Not Resettable)
		LED On Time-R: XXXXXX Hours	LED On Running Time (Resettable)
		LED On Time Reset: <b>Pass Code = 050</b>	Reset LED Running Time
	DMX Values <sup>(1)</sup> (See Note 1)	Tilt 1-6 / Tilt Fine 1-6 / Red 1-24 / Green 1-24 / Blue 1-24 / White 1-24 / Color Macros / CTO Macros / BackClrD / BackClrM / Strobe / Dimmer / Dimmer Fine / Shape Mode / Shape Speed / Tilt Speed / Ctrl Function	Current DMX Values
	Software Version	X.XX	Current Software Version

Notes:

(1) DMX Value options depend on the DMX Channel mode setting.

**DMX SETTINGS** - The submenus listed under **DMX SETTINGS** are as follows: **DMX Address**, **DMX Channel Mode**, and **No DMX Status**.

- **DMX ADDRESS** - In this submenu you can find and set your desired DMX address.
- **DMX CHANNEL MODE** - In this submenu you can find and set your desired DMX channel mode.
- **NO DMX STATUS** - This submenu setting is used as a precaution mode in case the DMX signal is lost or interrupted. The operating mode chosen in this submenu is the running mode the fixture will go into when the DMX signal is lost. Listed below are the 3 modes.
  - **Hold Last** - This setting will have the fixture stay in the last DMX setup.
  - **Auto** - This setting will have the fixture go into auto mode.
  - **Sound** - This setting will have the fixture go into sound active mode.
  - **Blackout** - This setting will have the fixture go into stand by mode.
  - **Manual** - This setting will have the fixture go into the current manual set up. See **MANUAL CONTROL**.

**PERSONALITY** - The submenus listed under **PERSONALITY** are as follows: **Master**, **Slave**, **Status Settings**, **Dim Modes**, **LED Refresh Rate**, **Gamma**, **Reset All Motors**, **Display**, and **Service**.

- **MASTER/SLAVE** - In these two submenus you are able to set the unit as a “Master” or “Slave” in a Master-Slave configuration. **NOTE: The “Master” setting must also be activated in a Stand Alone setup.**
- **STATUS SETTINGS** - In this submenu you are able to access and adjust/change: Tilt Invert and Tilt Speed.
- **DIM MODES** - In this submenu you are able to select your desired dimmer mode and adjust the dimming speed time.
- **LED REFRESH RATE** - In this submenu you are able to select your desired LED refresh rate.
- **GAMMA** - In this submenu you are able to select your desired gamma setting.
- **RESET ALL MOTORS** - In this submenu you are able to reset all motors.
- **DISPLAY** - In this submenu you are able to adjust the display intensity, display invert, activate the display blackout (Screen Saver Display), and activate/deactivate the display lock.
- **SERVICE** - In this submenu you are able to access: calibration adjustments (effect adjust) and restore the factory settings.

**MANUAL CONTROL** - This menu is for manual testing and manual control. See “**MANUAL CONTROL**” in the system menu on page 19 for the various adjustments.

**NOTE: NO DMX STATUS must be set to “Manual” when using Manual Control.**

**AUTO** - This menu allows you to run an Auto Program mode. This Auto Program can also be run as sound activate with adjustable sound sensitivity.

**INFORMATION** - The submenus listed under **INFORMATION** are as follows: *Fixture Life Time*, *Total LED Time*, *DMX Values*, and *Software Version*.

- **FIXTURE LIFE TIME**

- **Power On Time** - The **TOTAL** power ON running time of the unit is displayed. This time **CANNOT** be reset.
- **P-On Time-R** - The **CURRENT** power ON running time of the unit is displayed. This running time may not be the same as the total power ON running time displayed under "**Power On Time**". This time **CAN** be reset. **NOTE: The displayed time represents the current power ON time since the last reset.**
- **P-On Time Reset** - Reset the **CURRENT** power ON running time that is displayed under "**P-On Time-R**".

- **TOTAL LED TIME**

- **LED On Time** - The **TOTAL** LED ON time is displayed. This total LED ON time **CANNOT** be reset. **NOTE: The displayed time represents the TOTAL LED ON time.**
  - **LED On Time-R** - The **CURRENT** LED ON running time is displayed. This running time may not be the same as the total LED ON time displayed under "**LED On Time**". This total LED ON time **CAN** be reset. **NOTE: The displayed time represents the CURRENT LED ON time since the last reset.**
  - **LED On Time Reset** - With this function you can reset the **CURRENT** LED ON time that is displayed under "**LED On Time-R**".
- **DMX VALUES** - Displays the DMX values of any DMX channel that is currently in use. **NOTE: DMX value options depend on the current DMX channel mode setting.**
- **SOFTWARE VERSION** - Current software version is displayed.



**AUTO MODE/SOUND ACTIVE:**

This function will allow the unit to run its auto program. The auto program can be run normally or in a sound active state with adjustable sound sensitivity.

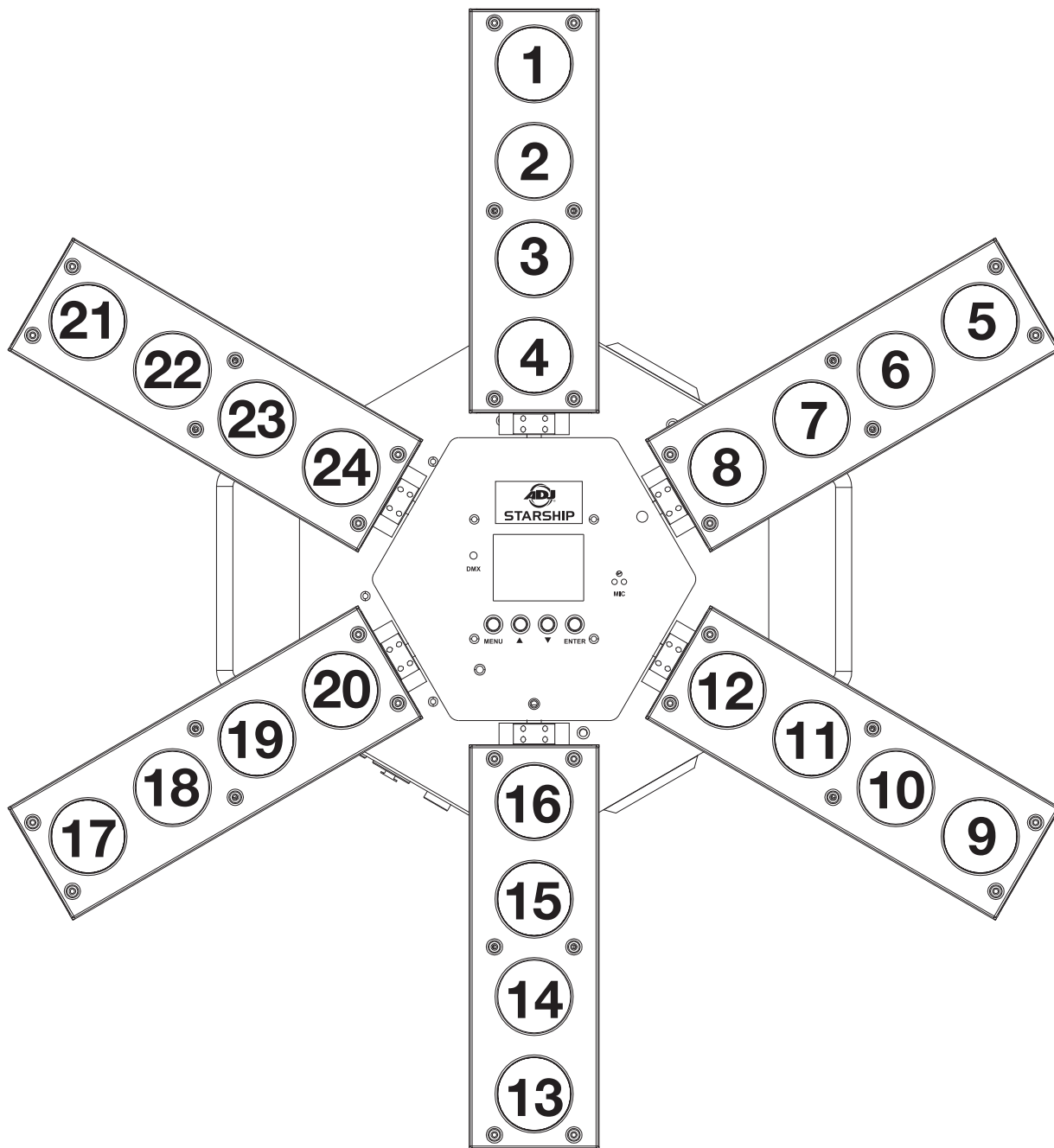
1. Press the **MENU** button to enter the main system menu. Press the **UP** or **DOWN** buttons so that **“DMX Settings”** is highlighted and press **ENTER**.
2. Press the **UP** or **DOWN** buttons so that **“No DMX Status”** is highlighted and press **ENTER**. Press the **UP** or **DOWN** buttons so that **“AUTO”** is highlighted and press **ENTER**.
3. Press the **MENU** button to exit to the main system menu. Press the **UP** or **DOWN** buttons so that **“Personality”** is highlighted and press **ENTER**. Highlight **“Master”** and press **ENTER**. Select **“ON”** and press **ENTER**. **NOTE: Make sure that the “Slave” Mode is “OFF”.**
4. Press the **MENU** button to exit to the main system menu. Press the **UP** or **DOWN** buttons so that **“AUTO”** is highlighted and press **ENTER**.
5. When entering the the **AUTO** menu, you have the choice of running the **AUTO** mode as sound active and adjusting the sound sensitivity. **“000”** being the least sound sensitive, and **“100”** being the most sound sensitive.
6. Make your desired adjustments and press the **MENU** button to exit to the main system menu. Press the **MENU** button again so that the DMX address is displayed.

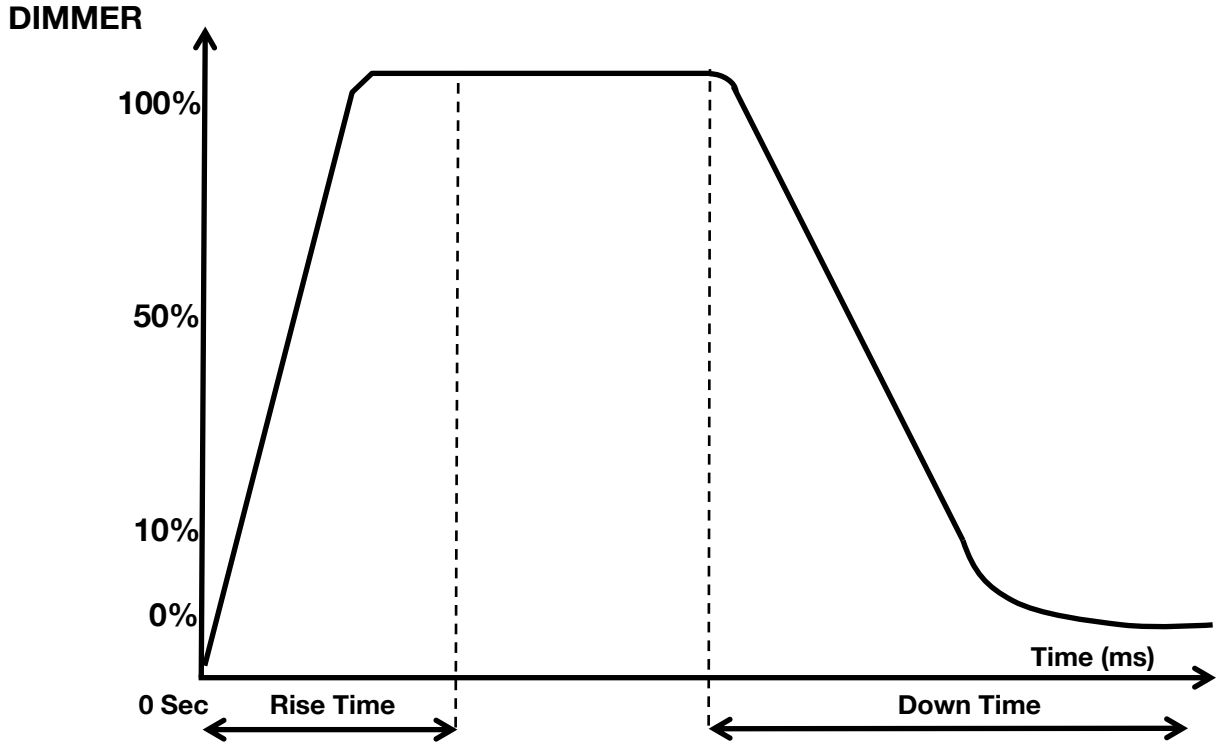
**Master-Slave Configuration:**

This function will allow you to link units together to run in a Master-Slave mode. In Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling units built-in programs. Any unit can act as a Master or as a Slave however, only one unit can be programmed to act as the “Master.”

**Master-Slave Connections and Settings:**

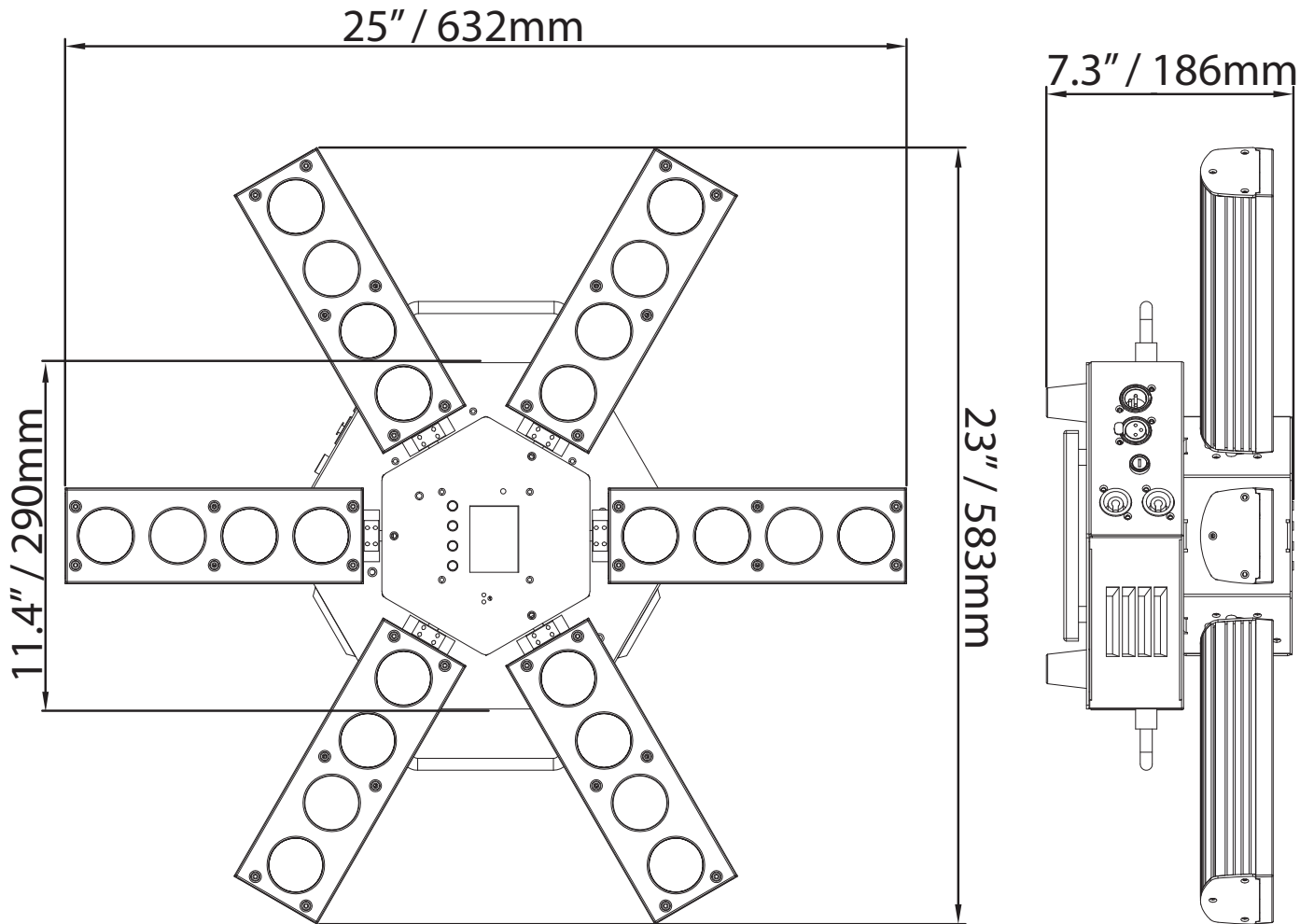
1. Daisy chain your units via the XLR connector on the rear of the unit. Use standard XLR data cables to link your units together. Remember that the male XLR connector is the input and the female XLR connector is the output. The first unit in the chain (master) will use the female XLR connector only. The last unit in the chain will use the male XLR connector only.
2. Set the **“Master”** unit to your desired operating mode.
3. Press the **MENU** button to enter the main system menu. Press the **UP** or **DOWN** buttons so that **“Personality”** is highlighted and press **ENTER**.
4. Press the **UP** or **DOWN** buttons so that **“Master”** is highlighted and press **ENTER**. Highlight **“ON”** and press **ENTER**, then press the **MENU** button to exit.
5. For the “Slave” unit(s) press the **MENU** button to enter the main system menu. Press the **UP** or **DOWN** buttons so that **“Personality”** is highlighted and press **ENTER**.
6. Press the **UP** or **DOWN** buttons so that **“Slave”** is highlighted and press **ENTER**. Highlight **“ON”** and press **ENTER**, then press the **MENU** button to exit. The **“Slave”** unit(s) will now follow the **“Master”** unit.





Dimming Curve Ramp Effect	0 sec Fade Time		1 sec Fade Time	
	Rise Time (ms)	Down Time (ms)	Rise Time (ms)	Down Time (ms)
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280
Stage 2	0	1100	0	1660

**\*NOT TO SCALE**



## Starship

## Multiple Unit Power Linking

With this feature you can connect the fixtures to one another using the power cable input and output sockets.

**NOTE: USE CAUTION WHEN POWER LINKING OTHER FIXTURES AS THE POWER CONSUMPTION OF OTHER MODEL FIXTURES MAY EXCEED THE MAX POWER OUTPUT ON THIS FIXTURE! CHECK SILK SCREEN FOR MAX AMPS.**

## Starship

## Fuse Replacement

Disconnect the unit from its power source. Remove the power cord from the unit. Use a phillips head screwdriver to remove the fuse holder. Remove the fuse located inside the fuse holder and replace with the new fuse. Install the fuse holder and new fuse and secure it.

## Starship

## Trouble Shooting

Listed below are a few common problems the user may encounter, with solutions.

### **Unit not responding to DMX:**

1. Check that the DMX cables are connected properly and are wired correctly (pin 3 is “hot”; on some other DMX devices pin 2 may be ‘hot’). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.

### **Unit does not respond to sound:**

1. Quiet or high pitched sounds will not activate the unit.
2. Make sure that Sound Active mode is activated.

## Starship

## Cleaning

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

**MANUFACTURER'S LIMITED WARRANTY**

- A. ADJ Products, LLC hereby warrants, to the original purchaser, ADJ Products, LLC products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty period on reverse). This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. For warranty service you must obtain a Return Authorization number (RA#) before sending back the product—please contact ADJ Products, LLC Service Department at 800-322-6337. Send the product only to the ADJ Products, LLC factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.
- C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which ADJ Products, LLC concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because not properly maintained as set forth in the instruction manual.
- D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check up. During the period specified above, ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear identifying marks to that effect.
- E. ADJ Products, LLC reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by ADJ Products, LLC in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and/or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall ADJ Products, LLC be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

This warranty is the only written warranty applicable to ADJ Products, LLC Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

**MANUFACTURER'S LIMITED WARRANTY PERIODS:**

- **Non L.E.D. Lighting Products = 1-year (365 days) Limited Warranty** (Such as: Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands etc. excluding LED and lamps)
- **Laser Products = 1 Year (365 Days) Limited Warranty** (excluding laser diodes which have a 6 month limited warranty)
- **L.E.D. Products = 2-year (730 days) Limited Warranty** (excluding batteries which have a 180 day limited warranty). **Note: 2 Year Warranty only applies to purchases within the United States.**
- **StarTec Series = 1 Year Limited Warranty** (excluding batteries which have a 180 day limited warranty).
- **ADJ DMX Controllers = 2 Year (730 Days) Limited Warranty**

**Model: Starship**

Voltage:	100V ~ 240V/50~60Hz
LEDs:	24 x 15W 4-in-1 RGBW LEDs
Working Position:	Any safe working position
Power Draw:	210W
Fuse:	3.15 Amp
Weight:	26.5lbs./ 12kgs.
Dimensions:	25" (L) x 23" (W) x 7.3" (H) 632 x 583 x 186mm
Colors:	RGBW Color Mixing
DMX Channels:	2 DMX Modes: 22/120
Warranty:	2 Year (730 days) Limited Warranty

**Please Note:** Specifications and improvements in the design of this unit and this manual are subject to change.