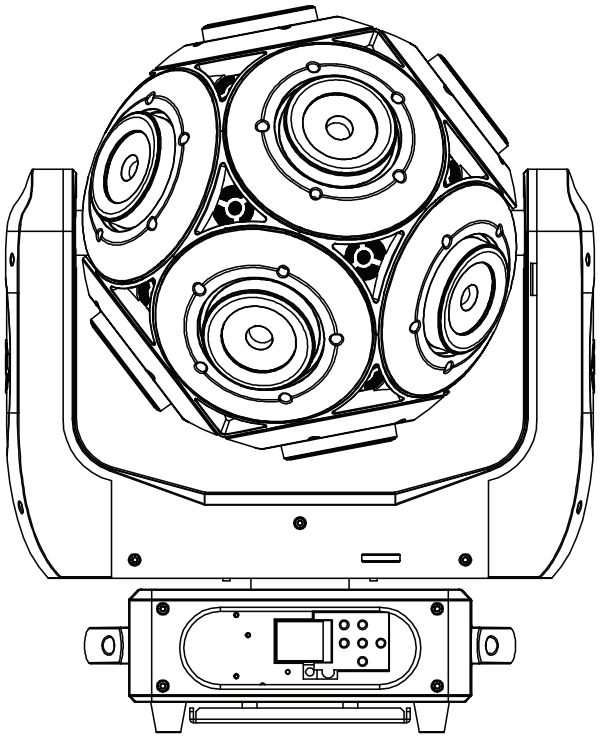
ASTEROID 1200



User Instructions

Europe Energy Saving Notice
Energy Saving Matters (EuP 2009/125/EC)
Saving electric energy is a key to help protecting the enviroment. 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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Please see page 7 for important lamp instructions!

Unpacking: Thank you for purchasing the Asteroid 1200 by ADJ Products, LLC. Every Asteroid 1200 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 equipment necessary to operate the unit has arrived intact. In the event damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Please do not return this unit to your dealer without contacting customer support first.

Introduction: The Asteroid 1200 is a DMX intelligent, 360° rotating head fixture. The Asteroid 1200 has 3 DMX channel modes; 18 channels, 20 channels, or 64 channels. The fixture can operate in four different operating modes; auto mode, sound-active, DMX control or KlingNet & Artnet. The Asteroid 1200 can be used as a stand alone unit or in a master/slave configuration. *For best results use fog or special effects smoke to enhance the beams projections.*

Customer Support: ADJ Products, LLC provides a toll free customer support line, to provide help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.adj.com for any comments or suggestions. Service Hours are Monday through Friday 8:00 a.m. to 4:30 p.m. Pacific Standard Time.

Voice:	(800) 322-6337
Fax:	(323) 582-2610
E-mail:	support@americandj.com

Warning! To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

Warning! *This may cause severe eye damage. Avoid looking directly into the light source at all times!*

For Your Own Personal Safety, Please Read and Understand This Manual Completely Before You Attempt To Install Or Operate This Unit!

- 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.
- Be sure that the local power outlet match that of the required voltage for 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.
- 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.
- 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 cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See page 52 for cleaning details.
- Heat -This fixture 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. Objects have fallen, or liquid has been spilled into the appliance.
  B. The appliance has been exposed to rain or water.
  C. The appliance does not appear to operate normally or exhibits a marked change in performance.

- Infinite Pan and Tilt Rotation in both directions
- 3 Modes of DMX-512 Protocol Compatible (18 DMX Channel Mode, 20 DMX Channel Mode, and 64 DMX Channel Mode)
- 3-Pin & 5-Pin XLR Inputs & Outputs
- KlingNet & Artnet Compatible
- Ethernet Input & Output Jacks
- 64 Color Macros + Individual RGBW Control
- 4 Operating Modes - Auto Run, Sound Active, DMX Control, & KlingNet & Artnet
- Stand Alone Setup or Master-Slave Configuration
- Edit and Save Scenes into the Memory

Asteroid 1200 Handling Precautions

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.

During operation the housing may become extremely hot. Avoid touching the unit with bare hands while in use.

ADJ Products, LLC will not accept any liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to this unit.

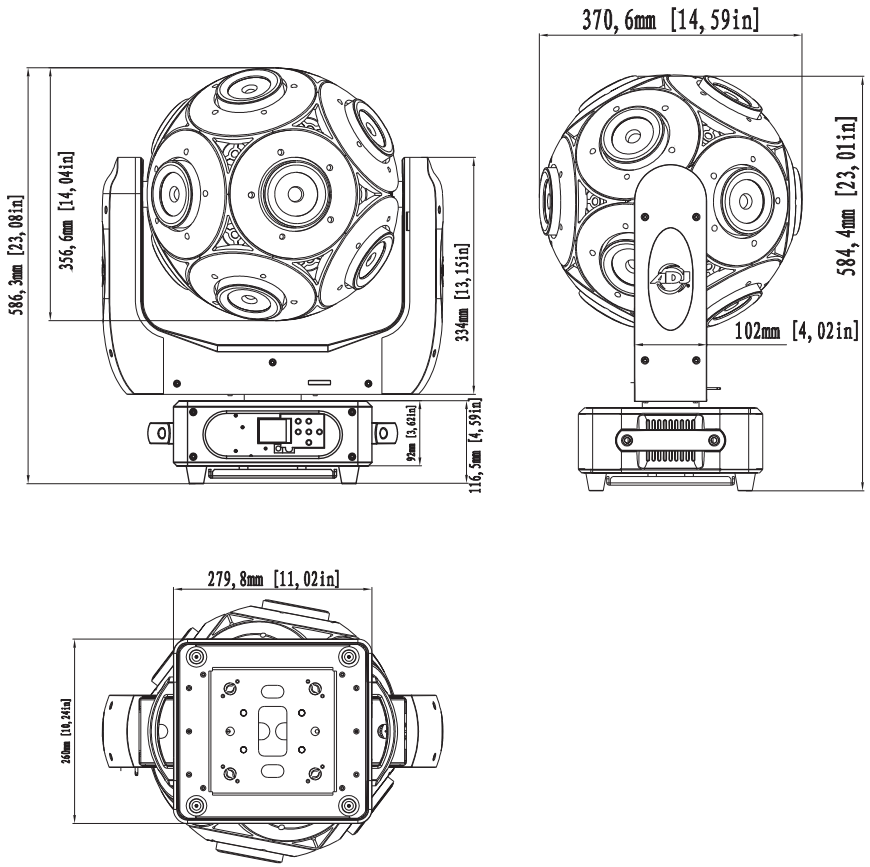
Asteroid 1200 Product Registration

The Asteroid 1200 carries a two 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 prepaid 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 and 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 toll free 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 at the shippers cost.

Asteroid 1200 General Instructions

To optimize the performance of this product, please read these operating instructions carefully to familiarize yourself with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit. Please keep this manual with the unit, for future reference.

Asteroid 1200 CAD Drawing

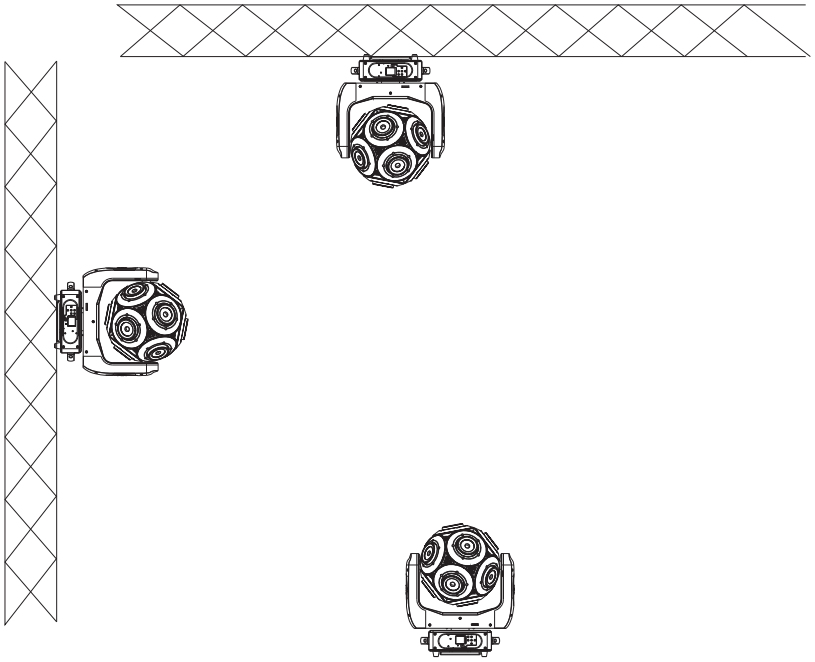


Asteroid 1200 Truss Mounting

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.

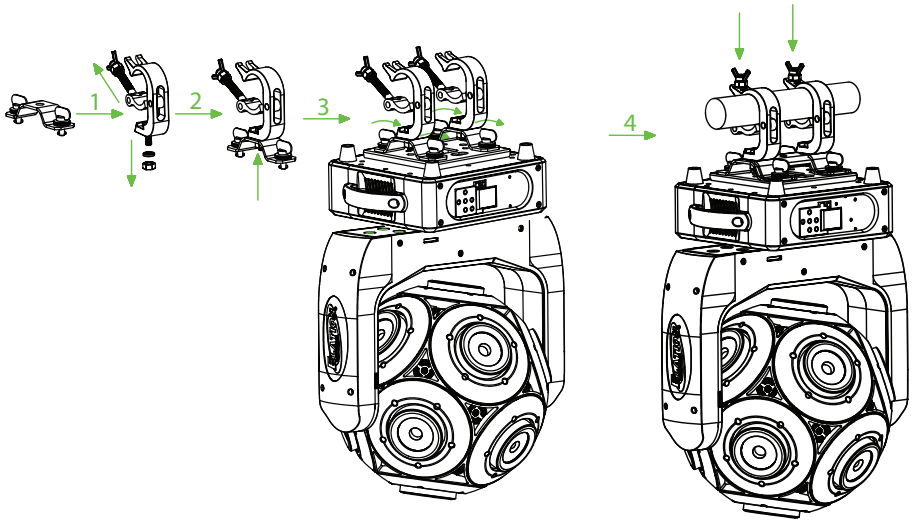
Overhead mounting requires extensive experience, including calculating working load limits, installation material being used, and perodic safety inspection of all installation material and unit. If you lack these qualifications, do not attempt the installation yourself.

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



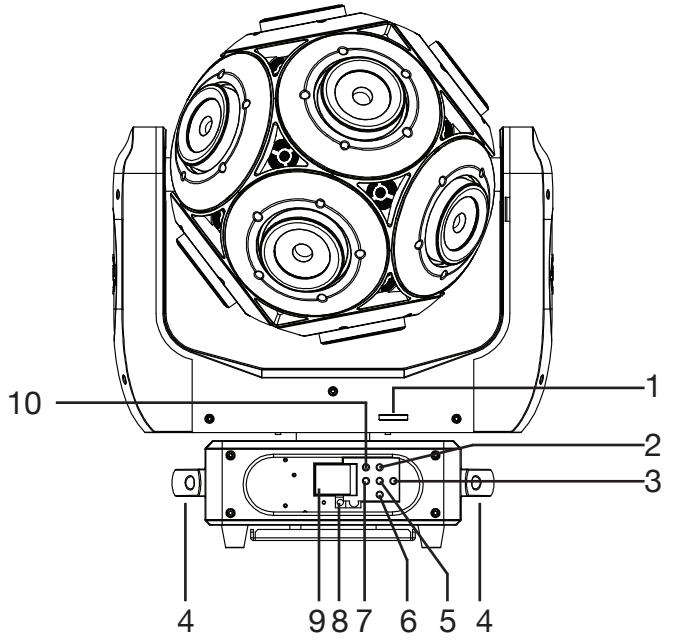
The Asteroid 1200 is fully operational in three different mounting positions; hanging upside-down from a ceiling, mounted sideways on trussing, or set on a flat level surface. Be sure this fixture is kept at least 0.5m away from any flammable materials (decoration etc.). Always use and install the supplied 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.

NOTICE: The suitable enviromental temperature for this lighting fixture is between -25˚ C to 45˚ C. Do not place this lighting fixture in an enviroment where the temperatures are under or above the temperatures stated above. This will allow the fixture to run at its best and help prolong the fixture life.

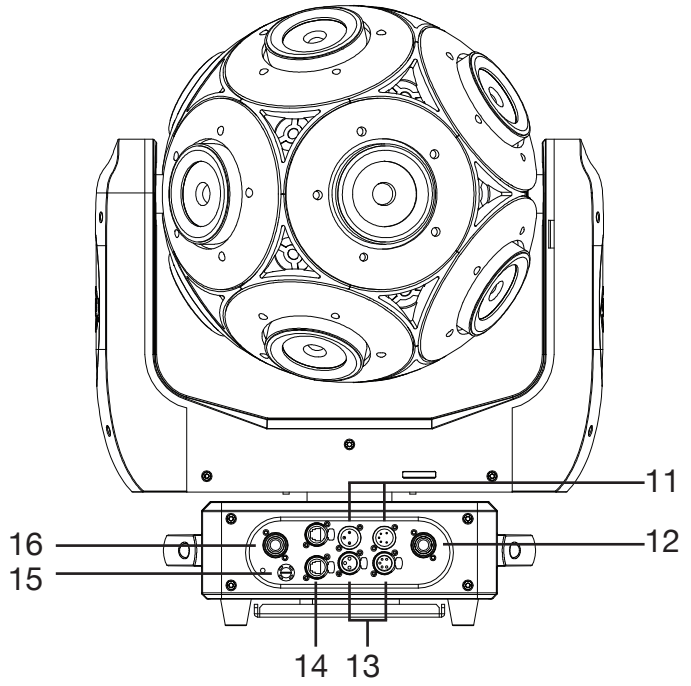


Screw one clamp each via a M12 screw and nut onto the Omega holders. Insert the quick-lock fasteners of the Omega holders into the respective holes on the bottom of the Asteroid 1200. Tighten the quick-lock fasteners fully clockwise. Install the second Omega holder. Pull the safety-cable through the holes on the bottom of the base and over the trussing system or a safe fixation spot. Insert the end in the carabine and tighten the safety screw.

FRONT



REAR



1. Yolk Lock - Slide this latch down and to the left to lock the yolk into place. Make sure to unlock the yolk before you use the unit.

2. Up Button - This button is used to scroll forwards when navigating through the system menu.

3. Right Button - This button is used to move to the right when navigating through the system menu.

4. Carrying Handles - The includes built-in carrying handles. Be sure to always handle the unit by the built-in handles. Never lift or carrying the unit by head or yoke. Pulling on or transporting the unit by the moving head may severely damage the unit and will void the unit warranty.

5. Enter Button - This button is used to select and confirm a function in the system menu and enter the submenus.

6. Down Button - This button is used to scroll backwards when navigating through the system menu.

7. Left Button - This button is used to move to the left when navigating through the system menu.

8. DC Switch - This button will allow you access to the system menu without have the need to actually plug in the unit. Press this button for at least 3 seconds and the display will turn on and allow you to make changes to the system menu.

9. Digital Display - This display shows the menu and operating functions that you can choose from.

10. Mode Button - This button is used to enter the main menu and exit the submenus.

11. 3-Pin & 5-Pin XLR XLR Input Jacks - These jack's are used to receive an incoming DMX signal or Master/Slave signal.

12. PowerCon Output - This output is used to power cord daisy chain two-way PowerCon cord (not included) to another Asteroid 1200 unit. When power cord daisy chaining only connect 5 units together @ 120V and 11 units together @ 230V. See page 54 for more information.

13. 3-Pin & 5-Pin XLR Output Jacks - These jack's are used to transmit the incoming DMX signal to another DMX fixture, or transmit a Master/Slave signal to the next Asteroid 1200 in the chain. For best results in DMX or Master/Slave mode terminate this jack if it is the last unit in the chain. See "Line Termination" on page 13.

14. Ethernet Input & Output Ports - The Ethernet Input jack is used to transmit and receive to receive an incoming Ethernet signal or EtherNet Master/Slave signal. The Ethernet output jack is used to transmit the incoming Ethernet signal to another fixture, or transmit a Master/Slave signal to the next Asteroid 1200 in the chain. See page 52 for more information.

15. Fuse Holder - This housing stores a 7 amp protective fuse. Never defeat the fuse, the fuse is designed to protect the electronics in the event of severe power fluctuations. Always be sure to replace the fuse with an exact match as the one being replaced, unless otherwise told to do so by an authorized ADJ service technician.

16. PowerCon Input - This input is used to connect the supplied PowerCon cord to supply power to the unit from a matching power source. Never use this fixture if the ground prong has been removed or broken off. The ground prong is designed to reduce the risk of fire or electrical shock in the event the unit suffers from an internal short.

Power Supply: The ADJ Asteroid 1200 contains a electronic voltage switch, which will auto sense the voltage when it is plugged into the power source. With the electronic ballast you do not need to worry about wall voltage, this unit can be plugged in anywhere.

DMX-512: *DMX is short for Digital Multiplex. This is a universal protocol used by most lighting and controller manufactures 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. Therefore, the first fixture controlled by the controller could be the last fixture in the chain. 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 and Master/Slave Operation): The Asteroid 1200 can be controlled via DMX-512 protocol. The Asteroid 1200 can be either a 18, 20, or 64 channel DMX unit. The DMX address is set electronically using the controls on the front panel of the unit. Your unit and your DMX controller require a approved DMX-512 110 Ohm Data cable 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 professional sound and lighting stores). Your cables should be made with

Figure 1

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.

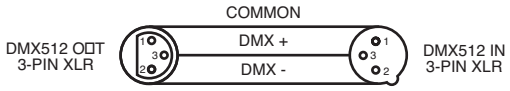


Figure 2

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

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		Pin 4 - Do Not Use
Not Used		Pin 5 - Do Not Use

Universal DMX Control: This function allows you to use a universal DMX-512 controller to control head movement, the color wheel, gobo wheel, prism, master dimmer, shutter (strobe), and various other features. A DMX controller allows you to create unique programs tailored to your individual needs.

1. The Asteroid 1200 has 3 DMX channel modes; 18 Channel mode, 20 Channel mode, and 64 Channel mode. See pages 16-25 for detailed description of the DMX traits.
2. To control your fixture in DMX mode, follow the set-up procedures on pages 12-14 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 directions on page 28 to select your DMX Channel mode, and to set the DMX address.
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.

Asteroid 1200		18 Channel DMX Mode (Basic)
Channel	**Value**	**Function**
1	0 - 255	PAN MOVEMENT 8bit (540° or 630°)
2	0 - 255	TILT MOVEMENT 8bit
3		PAN CONTINUOUS ROTATION
	0 - 127	NO FUNCTION
	128 - 189	CLOCKWISE ROTATION FAST - SLOW
	190 - 193	NO FUNCTION
	194 - 255	COUNTER-CLOCKWISE ROTATION SLOW - FAST
4		TILT CONTINUOUS ROTATION
	0 - 127	NO FUNCTION
	128 - 189	CLOCKWISE ROTATION FAST - SLOW
	190 - 193	NO FUNCTION
	194 - 255	COUNTER-CLOCKWISE ROTATION SLOW - FAST
5	0 - 255	ALL RED LED 0% - 100%
6	0 - 255	ALL GREEN LED 0% - 100%
7	0 - 255	ALL BLUE LED 0% - 100%
8	0 - 255	ALL WHITE LED 0% - 100%
9	0 - 255	COLOR MACROS (See Color Macro Chart On Page 26)
10		SHUTTER/STROBE
	0 - 31	LED OFF
	32 - 63	LED ON
	64 - 95	STROBING SLOW - FAST
	96 - 127	LED ON
	128 - 159	STROBE PULSE SLOW - FAST
	160 - 191	LED ON
	192 - 223	RANDOM STROBE SLOW - FAST
	224 - 255	LED ON
11		MASTER DIMMER
	0 - 255	0% - 100%
12		DIMMER FINE
	0 - 255	0% - 100%

Asteroid 1200		18 Channel DMX Mode (Basic)
Channel	**Value**	**Function**
13		AUTO PROGRAMS
	0	OFF
	1 - 20	PROGRAM 1
	21 - 40	PROGRAM 2
	41 - 60	PROGRAM 3
	61 - 80	PROGRAM 4
	81 - 100	PROGRAM 5
	101 - 120	PROGRAM 6
	121 - 140	PROGRAM 7
	141 - 160	PROGRAM 8
	161 - 180	PROGRAM 9
	181 - 200	PROGRAM 10
	201 - 220	PROGRAM 11
	221 - 240	PROGRAM 12
	241 - 250	PROGRAM 13
	251 - 255	PROGRAM 14
14		PROGRAM SPEED
	0 - 255	SLOW - FAST
15		AUTO PROGRAM FADE
	0 - 255	SLOW - FAST
16		DIMMER MODE
	0 - 20	STANDARD
	21 - 40	STAGE
	41 - 60	TV
	61 - 80	ARCHITECTURAL
	81 - 100	THEATRE
	101 - 255	DEFAULT DIMMER SETTING
17		PAN/TILT SPEED
	0 - 225	FAST - SLOW
	226 - 235	BLACKOUT BY MOVEMENT
	236 - 255	NO FUNCTION

Asteroid 1200		18 Channel DMX Mode (Basic)
Channel	**Value**	**Function**
18		AUTO PROGRAMS
	0 - 79	NORMAL
	80 - 84	ALL MOTOR RESET
	85 - 99	NO FUNCTION
	101 - 119	INTERNAL PROGRAM 1
	120 - 139	INTERNAL PROGRAM 2
	140 - 159	INTERNAL PROGRAM 3
	160 - 179	INTERNAL PROGRAM 4
	180 - 199	INTERNAL PROGRAM 5
	200 - 219	INTERNAL PROGRAM 6
	220 - 239	INTERNAL PROGRAM 7
	240 - 255	NO FUNCTION

Asteroid 1200		20 Channel DMX Mode (Standard)
Channel	**Value**	**Function**
1	0 - 255	PAN MOVEMENT 8bit (540° or 630°)
2	0 - 255	PAN MOVEMENT FINE 16bit
3	0 - 255	TILT MOVEMENT 8bit
4	0 - 255	TILT MOVEMENT FINE 16bit
5		PAN CONTINUOUS ROTATION
	0 - 127	NO FUNCTION
	128 - 189	CLOCKWISE ROTATION FAST - SLOW
	190 - 193	NO FUNCTION
	194 - 255	COUNTER-CLOCKWISE ROTATION SLOW - FAST
6		TILT CONTINUOUS ROTATION
	0 - 127	NO FUNCTION
	128 - 189	CLOCKWISE ROTATION FAST - SLOW
	190 - 193	NO FUNCTION
	194 - 255	COUNTER-CLOCKWISE ROTATION SLOW - FAST
7	0 - 255	ALL RED LED 0% - 100%
8	0 - 255	ALL GREEN LED 0% - 100%
9	0 - 255	ALL BLUE LED 0% - 100%
10	0 - 255	ALL WHITE LED 0% - 100%
11	0 - 255	COLOR MACROS (See Color Macro Chart On Page 26)
12		SHUTTER/STROBE
	0 - 31	LED OFF
	32 - 63	LED ON
	64 - 95	STROBING SLOW - FAST
	96 - 127	LED ON
	128 - 159	STROBE PULSE SLOW - FAST
	160 - 191	LED ON
	192 - 223	RANDOM STROBE SLOW - FAST
	224 - 255	LED ON
13		MASTER DIMMER
	0 - 255	0% - 100%

Asteroid 1200		20 Channel DMX Mode (Standard)
Channel	**Value**	**Function**
14		DIMMER FINE
	0 - 255	0% - 100%
15		AUTO PROGRAMS
	0	OFF
	1 - 20	PROGRAM 1
	21 - 40	PROGRAM 2
	41 - 60	PROGRAM 3
	61 - 80	PROGRAM 4
	81 - 100	PROGRAM 5
	101 - 120	PROGRAM 6
	121 - 140	PROGRAM 7
	141 - 160	PROGRAM 8
	161 - 180	PROGRAM 9
	181 - 200	PROGRAM 10
	201 - 220	PROGRAM 11
	221 - 240	PROGRAM 12
	241 - 250	PROGRAM 13
	251 - 255	PROGRAM 14
16		PROGRAM SPEED
	0 - 255	SLOW - FAST
17		AUTO PROGRAM FADE
	0 - 255	SLOW - FAST
18		DIMMER MODE
	0 - 20	STANDARD
	21 - 40	STAGE
	41 - 60	TV
	61 - 80	ARCHITECTURAL
	81 - 100	THEATRE
	101 - 255	DEFAULT DIMMER SETTING
19		PAN/TILT SPEED
	0 - 225	FAST - SLOW
	226 - 235	BLACKOUT BY MOVEMENT
	236 - 255	NO FUNCTION

Asteroid 1200		20 Channel DMX Mode (Standard)
Channel	**Value**	**Function**
20		AUTO PROGRAMS
	0 - 79	NORMAL
	80 - 84	ALL MOTOR RESET
	85 - 99	NO FUNCTION
	101 - 119	INTERNAL PROGRAM 1
	120 - 139	INTERNAL PROGRAM 2
	140 - 159	INTERNAL PROGRAM 3
	160 - 179	INTERNAL PROGRAM 4
	180 - 199	INTERNAL PROGRAM 5
	200 - 219	INTERNAL PROGRAM 6
	220 - 239	INTERNAL PROGRAM 7
	240 - 255	NO FUNCTION

Asteroid 1200		64 Channel DMX Mode (Extended)
Channel	**Value**	**Function**
1	0 - 255	PAN MOVEMENT 8bit (540° or 630°)
2	0 - 255	PAN MOVEMENT FINE 16bit
3	0 - 255	TILT MOVEMENT 8bit
4	0 - 255	TILT MOVEMENT FINE 16bit
5	 0 - 127 128 - 189 190 - 193 194 - 255	PAN CONTINUOUS ROTATION NO FUNCTION CLOCKWISE ROTATION FAST - SLOW NO FUNCTION COUNTER-CLOCKWISE ROTATION SLOW - FAST
6	 0 - 127 128 - 189 190 - 193 194 - 255	TILT CONTINUOUS ROTATION NO FUNCTION CLOCKWISE ROTATION FAST - SLOW NO FUNCTION COUNTER-CLOCKWISE ROTATION SLOW - FAST
7	0 - 255	RED LED 1 0% - 100%
8	0 - 255	GREEN LED 1 0% - 100%
9	0 - 255	BLUE LED 1 0% - 100%
10	0 - 255	WHITE LED 1 0% - 100%
11	0 - 255	RED LED 2 0% - 100%
12	0 - 255	GREEN LED 2 0% - 100%
13	0 - 255	BLUE LED 2 0% - 100%
14	0 - 255	WHITE LED 2 0% - 100%
15	0 - 255	RED LED 3 0% - 100%
16	0 - 255	GREEN LED 3 0% - 100%
17	0 - 255	BLUE LED 3 0% - 100%
18	0 - 255	WHITE LED 3 0% - 100%
19	0 - 255	RED LED 4 0% - 100%
20	0 - 255	GREEN LED 4 0% - 100%
21	0 - 255	BLUE LED 4 0% - 100%
22	0 - 255	WHITE LED 4 0% - 100%
23	0 - 255	RED LED 5 0% - 100%
24	0 - 255	GREEN LED 5 0% - 100%

Asteroid 1200		64 Channel DMX Mode (Extended)
Channel	**Value**	**Function**
25	0 - 255	BLUE LED 5 0% - 100%
26	0 - 255	WHITE LED 5 0% - 100%
27	0 - 255	RED LED 6 0% - 100%
28	0 - 255	GREEN LED 6 0% - 100%
29	0 - 255	BLUE LED 6 0% - 100%
30	0 - 255	WHITE LED 6 0% - 100%
31	0 - 255	RED LED 7 0% - 100%
32	0 - 255	GREEN LED 7 0% - 100%
33	0 - 255	BLUE LED 7 0% - 100%
34	0 - 255	WHITE LED 7 0% - 100%
35	0 - 255	RED LED 8 0% - 100%
36	0 - 255	GREEN LED 8 0% - 100%
37	0 - 255	BLUE LED 8 0% - 100%
38	0 - 255	WHITE LED 8 0% - 100%
39	0 - 255	RED LED 9 0% - 100%
40	0 - 255	GREEN LED 9 0% - 100%
41	0 - 255	BLUE LED 9 0% - 100%
42	0 - 255	WHITE LED 9 0% - 100%
43	0 - 255	RED LED 10 0% - 100%
44	0 - 255	GREEN LED 10 0% - 100%
45	0 - 255	BLUE LED 10 0% - 100%
46	0 - 255	WHITE LED 10 0% - 100%
47	0 - 255	RED LED 11 0% - 100%
48	0 - 255	GREEN LED 11 0% - 100%
49	0 - 255	BLUE LED 11 0% - 100%
50	0 - 255	WHITE LED 11 0% - 100%
51	0 - 255	RED LED 12 0% - 100%
52	0 - 255	GREEN LED 12 0% - 100%
53	0 - 255	BLUE LED 12 0% - 100%
54	0 - 255	WHITE LED 12 0% - 100%
55	0 - 255	COLOR MACROS (See Color Macro Chart On Page 26)

Asteroid 1200		64 Channel DMX Mode (Extended)
Channel	**Value**	**Function**
56		SHUTTER/STROBE
	0 - 31	LED OFF
	32 - 63	LED ON
	64 - 95	STROBING SLOW - FAST
	96 - 127	LED ON
	128 - 159	STROBE PULSE SLOW - FAST
	160 - 191	LED ON
	192 - 223	RANDOM STROBE SLOW - FAST
	224 - 255	LED ON
57		MASTER DIMMER
	0 - 255	0% - 100%
58		DIMMER FINE
	0 - 255	0% - 100%
59		AUTO PROGRAMS
	0	OFF
	1 - 20	PROGRAM 1
	21 - 40	PROGRAM 2
	41 - 60	PROGRAM 3
	61 - 80	PROGRAM 4
	81 - 100	PROGRAM 5
	101 - 120	PROGRAM 6
	121 - 140	PROGRAM 7
	141 - 160	PROGRAM 8
	161 - 180	PROGRAM 9
	181 - 200	PROGRAM 10
	201 - 220	PROGRAM 11
	221 - 240	PROGRAM 12
	241 - 250	PROGRAM 13
	251 - 255	PROGRAM 14
60		PROGRAM SPEED
	0 - 255	SLOW - FAST
61		AUTO PROGRAM FADE
	0 - 255	SLOW - FAST

Asteroid 1200		64 Channel DMX Mode (Extended)
Channel	**Value**	**Function**
62		DIMMER MODE
	0 - 20	STANDARD
	21 - 40	STAGE
	41 - 60	TV
	61 - 80	ARCHITECTURAL
	81 - 100	THEATRE
	101 - 255	DEFAULT DIMMER SETTING
63		PAN/TILT SPEED
	0 - 225	FAST - SLOW
	226 - 235	BLACKOUT BY MOVEMENT
	236 - 255	NO FUNCTION
64		AUTO PROGRAMS
	0 - 79	NORMAL
	80 - 84	ALL MOTOR RESET
	85 - 99	NO FUNCTION
	101 - 119	INTERNAL PROGRAM 1
	120 - 139	INTERNAL PROGRAM 2
	140 - 159	INTERNAL PROGRAM 3
	160 - 179	INTERNAL PROGRAM 4
	180 - 199	INTERNAL PROGRAM 5
	200 - 219	INTERNAL PROGRAM 6
	220 - 239	INTERNAL PROGRAM 7
	240 - 255	NO FUNCTION

Color No.	DMX VAULE	RGBW COLOR INTENSITY				Color No.	DMX VAULE	RGBW COLOR INTENSITY			
		RED	GREEN	BLUE	WHITE			RED	GREEN	BLUE	WHITE
OFF	0	0	0	0	0	Color33	129-132	255	206	143	0
Color1	1-4	80	255	234	80	Color34	133-136	254	177	153	0
Color2	5-8	80	255	164	80	Color35	137-140	254	192	138	0
Color3	9-12	77	255	112	77	Color36	141-144	254	165	98	0
Color4	13-16	117	255	83	83	Color37	145-148	254	121	0	0
Color5	17-20	160	255	77	77	Color38	149-152	176	17	0	0
Color6	21-24	223	255	83	83	Color39	153-156	96	0	11	0
Color7	25-28	255	243	77	77	Color40	157-160	234	139	171	0
Color8	29-32	255	200	74	74	Color41	161-164	224	5	97	0
Color9	33-36	255	166	77	77	Color42	165-168	175	77	173	0
Color10	37-40	255	125	74	74	Color43	169-172	119	130	199	0
Color11	41-44	255	97	77	74	Color44	173-176	147	164	212	0
Color12	45-48	255	71	77	71	Color45	177-180	88	2	163	0
Color13	49-52	255	83	134	83	Color46	181-184	0	38	86	0
Color14	53-56	255	93	182	93	Color47	185-188	0	142	208	0
Color15	57-60	255	96	236	96	Color48	189-192	52	148	209	0
Color16	61-64	238	93	255	93	Color49	193-196	1	134	201	0
Color17	65-68	196	87	255	87	Color50	197-200	0	145	212	0
Color18	69-72	150	90	255	90	Color51	201-204	0	121	192	0
Color19	73-76	100	77	255	77	Color52	205-208	0	129	184	0
Color20	77-80	77	100	255	77	Color53	209-212	0	83	115	0
Color21	81-84	67	148	255	67	Color54	213-216	0	97	166	0
Color22	85-88	77	195	255	77	Color55	217-220	1	100	167	0
Color23	89-92	77	234	255	77	Color56	221-224	0	40	86	0
Color24	93-96	158	255	144	144	Color57	225-228	209	219	182	0
Color25	97-100	255	251	153	153	Color58	229-232	42	165	85	0
Color26	101-104	255	175	147	147	Color59	233-236	0	46	35	0
Color27	105-108	255	138	186	138	Color60	237-240	8	107	222	0
Color28	109-112	255	147	251	147	Color61	241-244	107	156	231	0
Color29	113-116	151	138	255	138	Color62	245-248	165	198	247	0
Color30	117-120	99	0	255	100	Color63	249-252	0	0	189	0
Color31	121-124	138	169	255	138	Color64	253-255	255	255	255	0
Color32	125-128	255	255	255	255						

Power on, display shows:	Software Update Please Wait。。。 Motor Reset Please Wait。。。 ADJ Asteroid 1200			
Receive	Set Address	A001~AXXX		
User Mode	User Mode	Standard Basic Extend User A User B User C		(16bit) (8bit)
	Edit A Edit B Edit C	Max Channel PAN		
Function	Status	Remote Add No DMX Mode Pan Invert Tilt Invert Pan Degree Feedback Move.Spd Mic.Sens Stand By	ON/OFF Blackout/Hold/Auto/Sound ON/OFF ON/OFF 630/540 ON/OFF Speed 1~ 4 0~99% OFF, 01M~99M, 15M	
	Fixture ID	Service PIN RDM PID Unit IP Addr Universe	Password=xxx xxxxxx xxx.xxx.xxx.xxx xxx	
	Protocol Set	Kling-Net ArtNet		
	Net Switch	ON/OFF		
	Fan Set	Head Fan	Auto High Low	
		Base Fan	50% 75% 90%	
	LCD.Set	Backlight Flip Display Key Lock DispFlash	02~60m <05m> ON/OFF ON/OFF ON/OFF	
	Dim Curve	Standard Stage TV Architectural Theatre		
	Temp. C/F	Celsius Fahrenheit		
	Init.Effect	PAN =XXX		
	Disp.Set	Chan.Value Slave Set Auto.Pro Sound.Ctrl	PAN…… Slave1,Slave2,Slave3 Master / Alone Master / Alone	
	DFSE	ON/OFF		
Information	Time.Info	Current Total Time Last Clear Timer PIN Clear Last		
	Temp Info	Head Temp.		
	Error. Info	Pan,Tilt…..		
	Model. Info	Asteroid 1200		
	Software.V	1U01 V1.01…… 2U01 V1.01…… 3U01 V1.01…… 3U02 V1.01……		
Test	Reset M .	Pan&Tilt		
	Test.Chan	PAN ……		
	Panel.Ctrl.	PAN =XXX:		
	Calibrate	-Password- (050) PAN:		
Program	Select .Pro	Pro. Part 1 = Program 1 ~ 9 Program 1 Pro. Part 2 = Program 1 ~ 9 Program 2 Pro. Part 3 = Program 1 ~ 9 Program 3		
	Edit. Pro	Program 1 . Program 9	Program Test Step 01=SCxxx Step 64=SCxxx	
	Edit.Sce	Edit Scene 001 ~ Edit Scene 250	Pan,Tilt,…… Fade Time Secne Time Input By Outside	
	Sce.Input	XX~XX		

The main menu is accessed by pressing the MODE button. Browse through the menu by using the UP, DOWN, RIGHT, & LEFT buttons. Press the ENTER button to access the desired menu. You can scroll through the submenus using the UP, DOWN, RIGHT, & LEFT buttons. To confirm every selection press the ENTER button. You can exit every menu and submenu by pressing the MODE button. The unit will automatically exit the menus if no buttons are pressed after 10 seconds. These next pages will explain each function in the menu layout located on the previous page.

RECEIVE -

Set Address - With this function, you can adjust the desired DMX-address via the Control Board.

1. Access the main menu, and press the UP or DOWN buttons so that "**Receive**" is higlighted, then press ENTER.

2. "**Set Address**" will now be displayed, press ENTER. The current DMX address will now be displayed.

3. Use the UP or DOWN buttons to adjust the DMX address.

4. Press ENTER to confirm or press MODE to return to the main menu.

USER MODE

User Mode - This mode will let you select your desired DMX Channel mode.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"User Mode"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"User Mode"** is displayed, press ENTER.

3. Use the UP or DOWN buttons to scroll through the 3 DMX Channel Modes.

Standard Mode - This is 20 Channel Mode.

Basic Mode - This is 18 Channel Mode.

Extended Mode - This is 64 Channel Mode.

User Mode A B C - These are customizable DMX modes. Select either of these modes and set the amount of DMX Channels and what each channel does.

4. Press the MODE button once to return to the **"User Mode Set"** menu.

Function -

Status

Address via DMX - With this function you can adjust the DMX address via external controller.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Function"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"Status"** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **"Remote Add"** is displayed, and press ENTER.

4. Either **"Off"** or **"On"** will be displayed, use the UP and DOWN buttons to toggle between.

5. Press ENTER to confirm your selection or press MODE to exit.

To use this function follow these instructions:

To adjust the address of your unit you must first go to the address that it is currently set to. From there you can adjust the address. First make sure all channels are set to the value of "0".

1. On your DMX controller set the DMX value of Channel 1 to the value "7".

2. Now set the DMX value of Channel 2 to the value "7" to adjust the starting address between 1 and 255. To adjust the address between 256 and 511 set Channel 2 to the value "8" .

3. Set the DMX value of Channel 3 to your desired starting address. This will take about 20 seconds before the unit accepts the new DMX address.

EXAMPLE: If you want the address to be 57, you must first set

the address that is currently assingned to the unit. Then set Channel 1's value to "7", Channel 2's value to "7", and Channel 3's value to "57". Wait 20 seconds and the address should change on the unit to "57".

2ND EXAMPLE: If you want the address to be 420, you must first set the address that is currently assingned to the unit. If you want the set the address to 420, set Channel 1's value to "7", Channel 2's value to "8", and Channel 3's to "164". (256 + 164 = 420).

No DMX Mode - With this function if the DMX signal is suddenly lost, the unit will automatically go into 1 of 3 modes.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Function"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"Status"** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **"No DMX Mode"** is displayed, and press ENTER.

4. Either **"Hold"** (Last DMX setting), **"Blackout", "Sound"** (Sound Active), or **"Auto"** (Auto Program) will be displayed, use the UP and DOWN buttons to toggle between.

5. Press ENTER to confirm your selection or press MODE to exit.

Pan Invert - With this function you can reverse the Pan movement.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Function"** is highlighted, then press ENTER. This function is used with DMX mode.

2. Press the UP or DOWN buttons until **"Status"** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **"Pan Invert"** is displayed, and press ENTER.

4. Either **"Off"** or **"On"** will be displayed, use the UP and DOWN buttons to toggle between.

5. Press ENTER to confirm your selection or press MODE to exit.

Tilt Invert - With this function you can reverse the left head Tilt movement. This function is used with DMX mode.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Function"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"Status"** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **"Tilt Invert"** is displayed, and press ENTER.

4. Either **"Off"** or **"On"** will be displayed, use the UP and DOWN buttons to toggle between.

5. Press ENTER to confirm your selection or press MODE to exit.

Pan Degree - With this function you can change the pan degree from 630 to 540. This function is used with DMX mode.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Function"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"Status"** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **"Pan Degree"** is displayed, and press ENTER.

4. Either **"540"** or **"630"** will be displayed, use the UP and DOWN buttons to toggle between.

5. Press ENTER to confirm your selection or press MODE to exit.

Feedback - With this function, you have the pan and tilt postion feedback while out of step or not feedback while out of step.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Function"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"Status"** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **“Feedback”** is displayed, and press ENTER.

4. Either **“Off”** or **“On”** will be displayed, use the UP and DOWN buttons to toggle between.

5. Press ENTER to confirm your selection or press MODE to exit.

Movement Speed - With this function you can set the pan and tilt movement speed.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **“Function”** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **“Status”** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **“Move. Speed”** is displayed, and press ENTER.

4. Either **“Speed 1”, “Speed 2”, “Speed 3”** or **“Speed 4”** will be displayed, use the UP and DOWN buttons to toggle between.

5. Press ENTER to confirm your selection or press MODE to exit.

Mic Sensitivity - With this function you can set the microphone sensitivity. The default setting is 70%. You can adjust the sensitivity between 0%-99%

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **“Function”** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **“Status ”** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **“Mic. Sens”** is displayed, and press ENTER.

4. The current mic sensitivity setting will be displayed, use the UP and DOWN buttons to adjust the sensitivity between 0%-99%.

5. Press ENTER to confirm your selection or press MODE to exit.

Stand By - With this function the LEDs and step motors will power off if there is no DMX signal within 15 mins (factory defualt). Once it receives a DMX signal, the fixture will reset itself.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **“Function”** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **“Status”** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **“Stand By”** is displayed, and press ENTER.

4. The current stand by setting will be displayed, use the UP and DOWN buttons to adjust the hibernation period between 01M-99M or “Off”.

5. Press ENTER to confirm your selection or press MODE to exit.

Fixture ID

Password - With this function you can enter the RDM password so that you can access and change the RDM ID number.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **“Function”** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **“Fixture ID”** is displayed, press ENTER.
3. Press UP or DOWN buttons, until **“Password”** is displayed, and press ENTER.

4. The **“Password”** is 050.

5. Press ENTER or press MODE to exit.

RDM PID - RDM stands for “Remote Device Management”. This feature lets you control every aspect of your fixture remotely from an RDM controller. Manual settings like adjusting the DMX address are no longer needed. This is especially useful when the unit is installed

in a remote area.
In this submenu you can see the units RDM ID number and adjust it as well.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **“Function”** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **“Fixture ID”** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **“RDM PID”** is displayed, and press ENTER.

4. “XXXXXX” will be displayed. “XXXXXX” represents the units current RDM ID.

5. Press ENTER or press MODE to exit.

Unit IP Addr - This is used to set the fixtures IP address.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **“Function”** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **“Fixture ID”** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **“Unit IP Addr”** is displayed, and press ENTER.

4. “XXX.XXX.XXX.XXX” will be displayed. “XXX.XXX.XXX.XXX” represents the units current IP address.

5. Press ENTER or press MODE to exit.

Universe - This is used to enter the Universe Number.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **“Function”** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **“Fixture ID”** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **“Universe”** is displayed, and press ENTER.

4. “XXX” will be displayed. “XXX” represents a number between 000-255.

5. Press ENTER or press MODE to exit.

Protocol Set

Protocol Set - This is used to select either Kling-Net or ArtNet.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **“Function”** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **“Protocol Set”** is displayed, press ENTER.

3. Press UP or DOWN buttons to switch between **“ArtNet”** and **“Kling-Net”**. Press ENTER to make your selection.
4. Press MODE to exit.

Net Switch

Net Switch - This is used to activate the Net outport when connected to another unit.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **“Function”** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **“Net Switch”** is displayed, press ENTER.

3. Press UP or DOWN buttons to switch between **“ON”** and **“OFF”**. Press ENTER to make your selection.

4. Press MODE to exit.

Fan Set

Fan Set - With this function, you can control the fan speed.

1. Access the main menu, and press the UP or DOWN buttons so that “**Function**” is higlighted, then press ENTER.

2. Press the UP or DOWN buttons until "**Fan Set**" is displayed, and press ENTER. The current setting will now be displayed.

3. Use the UP or DOWN buttons to switch between **"Head Fan"** or **"Base Fan"**. Press ENTER to make your selection.

4. Once you have made you selection use the UP and DOWN buttons to make the adjustments to the fans.

5. Press ENTER to confirm your selection or press the MENU button to return to the main menu.

LCD.Set

Backlight - With this function you can have the LCD display after 2-60 minutes. Use this function to adjust the time.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Function"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"LCD.Set"** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **"Backlight"** is displayed, and press ENTER.

4. **"05m"** (5 minutes) will be displayed, use the UP and DOWN buttons to adjust the shutoff time between 02m-60m or "Off".

5. Press ENTER to confirm your selection or press MODE to exit.

Flip Display - With this function you can rotate (flip) the display 180 degrees.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Function"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"LCD.Set"** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **"Flip Display"** is displayed, and press ENTER.

4. Either **"Off"** or **"On"** will be displayed, use the UP and DOWN buttons to toggle between.

5. Press ENTER to confirm your selection or press MODE to exit.

Key Lock - With this function activated the buttons will lock automatically after 15 seconds.
1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Function"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"LCD.Set"** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **"Key Lock"** is displayed, and press ENTER.

4. Either **"Off"** or **"On"** will be displayed, use the UP and DOWN buttons to toggle between.
5. Press ENTER to confirm your selection or press MODE to exit.

DispFlash - With this function active, the display will flash when the DMX signal is lost.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Function"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"LCD.Set"** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **"DispFlash"** is displayed, and press ENTER.

4. Either **"Off"** or **"On"** will be displayed, use the UP and DOWN buttons to toggle between.

5. Press ENTER to confirm your selection or press MODE to exit.

Dim Curve

Dim Curve - With this function you can change dimmer curve setting for LED. See page 54 for the Dimmer Curve Chart.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Function"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"Dim Curve"** is displayed,

press ENTER.

3. The current dimmer curve setting will now be displayed.

4. Use the UP and DOWN buttons to find your desired dimmer curve setting.

5. Press ENTER to confirm your selection or press MODE to exit.

Temperature C/F

Temperature C/F - With this function, you can change the temperature display to show either Celsius or Fahrenheit.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Function"** is highlighted, then press ENTER.

2. Press UP or DOWN buttons, until **"Temp. C/F"** is displayed, and press ENTER.

3. Either **"Celsius"** or **"Fahrenheit"** will be displayed, use the UP and DOWN buttons to toggle between.

4. Press ENTER to confirm your selection or press MODE to exit.

Init.Effect

Init.Effect - In this menu you are able to check the initial effect position.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Function"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"Init.Effect"** is displayed, press ENTER.

3. "XXX" will be displayed. "XXX" represents the current effect position.

4. Press ENTER or press MODE to exit.

Disp. Set

Chan. Value - This function will allow you to see the DMX value of

each DMX channel that is currently being used at the time.

1. Access the main menu, and press the UP or DOWN buttons so that "**Function**" is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until "**Chan. Value**" is displayed, and press ENTER.

3. A DMX Channel will be displayed. **Example:** Pan, Rotation, LED's etc... Press ENTER when you find the DMX channel that you would like to check. When you press ENTER the DMX value of that channel will displayed.

4. Press the MODE button to exit.

Slave Set - This function lets you designate the unit as the slave in a Master-Slave configuration.

1. Access the main menu, and press the UP or DOWN buttons so that "**Function**" is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until "**Slave Set**" is displayed, and press ENTER.

3. Either Slave 1, Slave 2, or Slave 3 will be displayed. Press ENTER to select either of the three, or press MODE button to exit.

Auto. Pro - This function allows the internal programs to run in either stand-alone or master/slave mode. In "Master" mode the fixture will send DMX data to other fixtures connect via the DMX chain. In "Alone" mode the fixture will operate as a single fixture. The program for this mode is selected in the "Select program" section of the control menu. You can set the number of steps under "Edit program". You can edit the individual scenes under "Edit scenes". With this function, you can run the individual scenes either automatically, i.e. with the adjusted Step-Time.

1. Access the main menu, and press the UP or DOWN buttons so

that "**Function**" is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until "**Auto. Pro**" is displayed, and press ENTER.

3. Either "Master" or "Alone" will be displayed.

4. Press ENTER to to make your selection, or press MODE button to exit.

Sound. Ctrl - With this function, the internal program will run in sound active mode.

1. Access the main menu, and press the UP or DOWN buttons so that "**Function**" is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until "**Sound. Ctrl**" is displayed, press ENTER.

3. Either "Master" or "Alone" will be displayed. Use the UP or DOWN buttons to change the operating mode.

4. Press ENTER to to make your selection, or press MODE button to exit.

DFSE

DFSE - With this function you can restore the factory settings.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"DFSE"** is highlighted, then press ENTER.

2. Either **"Off"** or **"On"** will be displayed, use the UP and DOWN buttons to toggle between. Selecting **"On"** will restore the factory settings.

3. Press ENTER to confirm your selection or press MODE to exit.

INFORMATION

Time. Info (Time information is always represented in hours)

Current - This will allow you to check units current running time since power has been activated.

1. Press the MODE button to access the main menu. Press the UP

or DOWN buttons so that **"Information"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"Time. Info"** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **"Current"** is displayed, and press ENTER.

4. **"XXXX"** will now be displayed. **"XXXX"** represents the current running time.

5. Press ENTER or press MODE to exit.

Total Time - This will allow you to check units total running time.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Information"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"Time. Info"** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **"Total Time"** is displayed, and press ENTER.

4. **"XXXX"** will now be displayed. **"XXXX"** represents the total running time.

5. Press ENTER or press MODE to exit.

Last Clear - This will allow you to clear the last run time of the unit.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Information"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"Time. Info"** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **"Last Clear"** is displayed, and press ENTER.

4. Either **"Off"** or **"On"** will be displayed, use the UP and DOWN buttons to toggle between.

5. Press ENTER to confirm your selection or press MODE to exit.

Timer Pin - You need to enter Timer Pin to access Clear Last menu.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Information"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"Time. Info"** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **"Timer Pin"** is displayed, and press ENTER.

4. The **"Timer Pin"** is 038.

5. Press ENTER to confirm or press MODE to exit.

Clean Last - This will allow you to clear the LED time running time. You need to put in the **Timer Pin** before doing this. Please see the section before this.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Information"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"Time. Info"** is displayed, press ENTER.

3. Press UP or DOWN buttons, until **"Clear Last"** is displayed, and press ENTER.

4. Either **"Off"** or **"On"** will be displayed, use the UP and DOWN buttons to toggle between.

5. Press ENTER to confirm or press MODE to exit.

Temp. Info - This will allow you to check the moving head temperature.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Information"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"Temp. Info"** is displayed, press ENTER.

3. **"Head Temp."** will now be displayed, press ENTER.

4. **"XXX"** will now be displayed. **"XXX"** represents the current temperature of the moving head.

5. Press MODE to exit.

Error. Info - This will allow you to see any errors that have occured.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Information"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"Error. Info"** is displayed, press ENTER.

3. Any errors that have occured to Pan, Tilt, etc will now be displayed.

4. Press MODE to exit.

Model. Info - This will allow you to see the model name

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **"Information"** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **"Model. Info"** is displayed, press ENTER.

3. The model name will now be displayed.

4. Press MODE to exit.

Software. V - This will allow you to see the software version you are currently running.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **“Information”** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **“Software. V”** is displayed, press ENTER.

3. The software version will now be displayed.

4. Press MODE to exit.

TEST

Reset. M - With this function you can reset the Pan & Tilt motors.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **“Test”** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **“Reset. M”** is displayed.

3. Press ENTER to reset or press MODE to exit.

Test. Chan - With this function you can test each channel function.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **“Test”** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **“Test. Chan”** is displayed, press ENTER.

3. Use the UP or DOWN buttons to scroll through the various channels.

4. Press ENTER to select a channel to test or press MODE to exit.

Panel. Ctrl - With this function you can fine adjustments.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **“Test”** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **“Panel. Ctrl”** is displayed, press ENTER.

3. Use the UP or DOWN buttons to scroll through the various functions.

4. Press ENTER when you find the function you would like to adjust or press MODE to exit.

Calibrate - With this function you can calibrate and adjust the effects wheels to their correct positions. The Calibration password 050.
NOTE: ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION.

1. Press the MODE button to access the main menu. Press the UP or DOWN buttons so that **“Test”** is highlighted, then press ENTER.

2. Press the UP or DOWN buttons until **“Calibrate”** is displayed, press ENTER.

3. “XXXX” will be displayed. The password is 050.

4. Press ENTER to confirm or press MODE to exit.

PROGRAM

EDIT PROGRAM: - The fixture comes equipped with a built-in DMX recorder that allows custom programs to be installed and recalled directly from the fixture’s control board. Programs can be created and stored using the fixture’s control board or by using an external DMX controller.

Select. Pro – This function allows the user to select one of nine of the user defined built-in programs. This program is then accessed in “Function Mode” under “Program Run.”
Edit. Pro – This function allows the user to edit the built-in programs.

Edit. Sce – This function allows the user to edit or define the actual scenes that are stored in the user defined built-in programs that are accessed in the previous step.

Sce. Input - The Asteroid 1200 features an integrated DMX recorder. Preprogrammed scenes can be transmitted to the fixture via any DMX compliant controller. This function allows those scenes to be stored in to the fixture’s built-in memory and
then subsequently used to create the user-defined programs.

Stand-Alone (Sound Active or Auto Program): This mode allows a single unit to run to the beat of the music or run through a built-in program.

AUTO PROGRAM:

1. Access the main menu, and press the UP or DOWN buttons so that "**Function**" is highlighted, then press ENTER.
2. Press the UP or DOWN buttons until "**Disp. Set**" is displayed, and press ENTER.
3. Press the UP or DOWN buttons until "**Auto. Pro**" is displayed, and press ENTER.
4. Either "**Master**" or "**Alone**" will be displayed. Using the UP or DOWN buttons select "**Alone**" and press ENTER.

SOUND ACTIVE:

1. Access the main menu, and press the UP or DOWN buttons so that "**Function**" is highlighted, then press ENTER.
2. Press the UP or DOWN buttons until "**Disp. Set**" is displayed, and press ENTER.
3. Press the UP or DOWN buttons until "**Sound. Ctrl**" is displayed, and press ENTER.
4. Either "**Master**" or "**Alone**" will be displayed. Using the UP or DOWN buttons select "**Alone**" and press ENTER.

Master-Slave Cofiguration (Sound Active or Auto Program):
This function will allow you to link up to 16 units together and operate without a controller. The units can run a built-in program or run in sound actiive mode. In a Master-Slave set up, 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 standard XLR microphone 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 your "**Master**" unit, access the main menu, and press the UP or DOWN buttons so that "**Function**" is highlighted, then

press ENTER.
3. Press the UP or DOWN buttons until "**Disp. Set**" is displayed, and press ENTER.
4. Select your desired operating mode. Use the UP or DOWN buttons to select between "**Auto. Pro**" or "**Sound. Ctrl**", press ENTER to select your desired mode.
5. Either "**Master**" or "**Alone**" will be displayed. Using the UP or DOWN buttons select "**Master**" and press ENTER.
6. For your "**Slave**" units, access the main menu, and press the UP or DOWN buttons so that "**Function**" is highlighted, then press ENTER.
7. Press the UP or DOWN buttons until "**Disp. Set**" is displayed, and press ENTER.
8. Press the UP or DOWN buttons until "**Slave Set**" is displayed, and press ENTER.
9. Either Slave 1, Slave 2, or Slave 3 will be displayed. Select your desired Slave setting and press ENTER.
10. Press MODE if you want to return to the main menu.
11. You may invert the pan and tilt functions in the system menu by following the directions on pages 30-31.

Asteroid 1200 KlingNet & Artnet Control

Control Using KlingNet or Artnet:

1. Install one of the recommended operating softwares onto your computer. Recommended softwares; Arkaos Media Master Express, Media Master Pro, or LED Master (Sold Separately).
2. Connect the panels via CAT 5 Straight Network cable. **When creating your own custom cable, use RJ45 Straight Network cable.**
3. Map the fixtures using KlingNetMapper or Artnet Mapper.
4. Control the fixtures using ArKaos or Art-Net software. Please refer to the media playback software user manual for further instructions.

Note: ArKaos KlingNet requires a gigabit (1000 mbps) Ethernet card and network router for a smoother operation.

Connecting to Power and Data:

When connecting to power, the LED indicator on the bottom of the unit should glow a solid red if the unit is receiving power.

When the unit is receiving a data signal, the LED indicator will flash yellow.

Note: The LED indicator may only flash when pressing the mouse and moving the indicator arrow around in the grid.

Asteroid 1200 KlingNet & Artnet Daisy Chain

Do not daisy-chain more than 40 unit's when connecting directly to a computer. To daisy-chain more than 40 unit's you must use a Ethernet Switch. When using a Ethernet Switch, do not daisy-chain more than 40 unit's from a single network port of the Ethernet Switch. A maximum 2 output network ports of the Ethernet Switch can be used.

Asteroid 1200 DMX Workshop™

DMX WORKSHOP™ (alternative software option to configure network settings)

DMX Workshop™ is a fully featured network management, analysis, configuration and diagnostics tool for Art-Net networks. It can be used to configure the Ethernet network settings on this fixture remotely such as the IP Address, Subnet Mask, and the DMX Universe. This software application is Windows XP™ and Windows 7™ compatible and is free of charge and available via download. (See link below)

http://artisticlicence.com/index.php?mode=products&sub=overview&action=&product_id=351

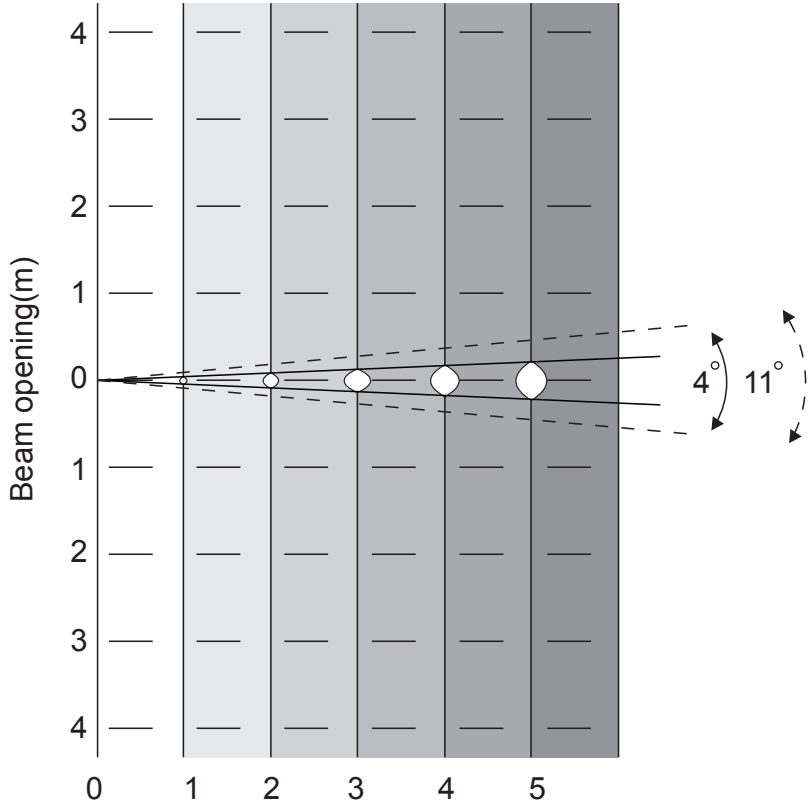
Asteroid 1200 — Photometric Chart

Beam angle 4°

Field angle 11°

Intensity(LUX)

Red LEDs	13024	2836	1288	691	433
Green LEDs	22173	3111	1976	1103	694
Blue LEDs	3318	700	295	157	100
WW LEDs	30095	5736	2406	1342	822
Full LEDs	39749	9056	3649	1957	1193



4° Diameter(m)	0.06	0.15	0.24	0.33	0.41
11° Diameter(m)	0.19	0.37	0.54	0.72	0.89

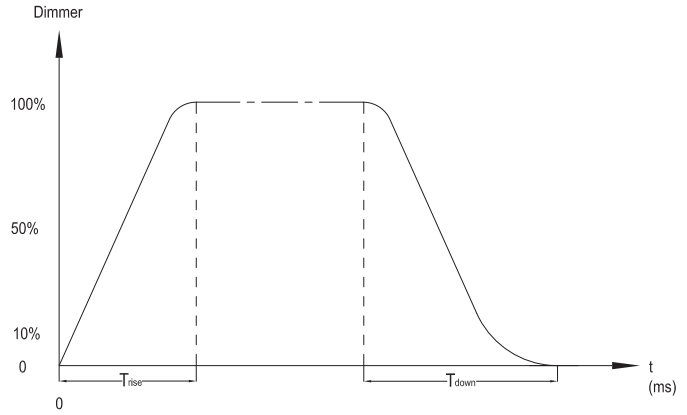
Asteroid 1200 — Power Cord Daisy Chain

With this feature you can connect the fixtures to one another using the PowerCON input and output sockets. The quantity that can be connected is 5 fixtures maximum @ 110V and a maximum 11 fixture's @ 240V. After maximum limit has been reached you will need to use a new power outlet. They must be the same fixtures. DO NOT mix fixtures.

Asteroid 1200 — Fuse Replacement

Fuse Replacement: First unplug the power. The fuse holder is located next to the PowerCon connection. Using a phillips head screw driver unscrew the fuse holder. Remove the bad fuse and replace with a new one.

Asteroid 1200 — Dimmer Curve Chart



Ramp Effect	0 255 0S (Fade Time)		0 255 1S (Fade Time)	
	T_{rise} (ms)	T_{down} (ms)	T_{rise} (ms)	T_{down} (ms)
Standard	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280

Asteroid 1200 Cleaning

Fixture Cleaning: Due to fog residue, smoke, and dust cleaning the internal and external optical lenses and mirror should be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates (I.e. smoke, fog residue, dust, dew). In heavy club use we recommend cleaning on a monthly basis. Periodic cleaning will ensure longevity, and crisp output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Use a brush to wipe down the cooling vents and fan grill.
3. Clean the external optics and mirror with glass cleaner and a soft cloth every 20 days.
4. Clean the internal optics with glass cleaner and a soft cloth every 30-60 days.
5. Always be sure to dry all parts completely before plugging the unit back in.

Asteroid 1200 Trouble Shooting

Trouble Shooting: Listed below are a few common problems that you may encounter, with solutions.

No light output from the unit;

1. Be sure the external fuse has not blown. The fuse is located on the back panel of the unit next to the PowerCon input connection.
2. Remove the lamp holder and be sure the lamp is seated in its socket properly. Occasionally lamps become loose during shipping be sure the lamp is push in to its socket all the way.
3. Be sure the fuse holder is completely and properly seated.

Unit does not respond to sound;

1. Low frequencies (bass) should cause the unit to react to sound. Tapping on the microphone, quiet or high pitched sounds may not activate the unit.

Asteroid 1200 Warranty

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 it's 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 maintnance, 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 indentifying 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:

- **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 motors, PCB boards, and power supplies, which have a 1-year (365 day Limited Warranty) batteries which have a 180 day limited warranty). Only the L.E.D.s carry a 2-year warranty (**excluding StarTec Series which a carries a 1 Year Limited Warranty) Note: 2 Year Warranty only applies to purchases within the United States.**
- **ADJ DMX Controllers = 2 Year (730 Days) Limited Warranty** (excluding faders and tact switches)

Model:	Asteroid 1200
Voltage:	100~240V, 50/60Hz
LEDs:	12 x 15W RGBW 4-in-1 LEDs
LED Life:	50,000 Hrs.
Beam Angle:	4 Degrees (Fixed) 11 Degrees (Field Angle)
Power Consumption:	226W
PowerCon Daisy Chain:	5 Fixtures Max. (110V 11 Fixtures Max. (240V)
Artnet/KlingNet:	40 Fixtures Max. (See page 48)
Dimensions:	15.75”(L) x 17.75”(W) x 13.5”(H) 400 x 450 x 600mm
Weight:	49 Lbs. / 22 kgs.
Colors:	RGBW
Fuse:	7A
Duty Cycle:	None
DMX:	3 DMX Channel Modes: 18 Channels, 20 Channels, or 64 Channels
Sound Active:	Yes
Working Position:	Any Safe, Secure Position (Page 7)
Warranty:	2 Year (730 days)

Auto Sensing Voltage: *This fixture contains a automatic voltage switch, which will auto sense the voltage when it is plugged into the power source.*

Please Note: *Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.*

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