ACCU FOG 1000™

American DJ®

Caution: Fog Machines may set off Smoke Alarms!

User Instructions

American DJ®
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Accu Fog 1000

Table of Contents

Unpacking: Thank you for purchasing the Accu Fog 1000 by American DJ®. Every Accu Fog 1000 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 Accu Fog 1000 is a 5 or 7 DMX channel (depending on the mode you are in), moving head, intelligent DMX fog machine. The fixture can operate in three different operating modes; stand alone, sound-active, or in a Master/Slave configuration. The Accu Fog 1000 also has an auto mode that can be used, while operating as a stand alone unit or when used in multiples linked in a master/slave configuration.

Customer Support: American DJ® 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.americandj.com for any comments or suggestions. Service Hours are Monday through Friday 9:00 a.m. to 5:00 p.m. Pacific Standard Time.

      Voice: (800) 322-6337
      Fax: (323) 582-2941
      E-mail: support@americandj.com

To purchase parts online visit http://parts.americandj.com

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

SAFETY ISSUES:
NEVER POINT OR AIM A FOG MACHINE TOWARDS PEOPLE OR THEIR CLOTHING. THIS UNIT EMITS HOT VAPOR AND SHOULD BE USED WITH THE SAME CARE THAT YOU WOULD OBSERVE WHEN USING AN ELECTRIC KETTLE OR IRON.

- Be sure to save the packing carton in the unlikely event the unit may have to be returned for service
- Do not spill water or other liquids into or on to your fogger. Be sure that all the fog fluid is kept inside the fluid reservoir
- Be sure that the local power outlet match that or the required voltage for your fog machine
- Do not remove the top cover under any conditions. There are no user serviceable parts inside
- Disconnect the unit's main power when left unused for long periods of time
- Never connect this unit to a dimmer pack
- Do not attempt to operate this unit, if it becomes damaged in anyway
- Never operate this unit when it's cover is removed
- To reduce the risk of electrical shock or fire, do not expose this unit rain or moisture
- 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
- Never block the ventilation holes. 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
- This unit is intended for indoor use only, use of this product outdoors voids all warranties
- Always mount this unit in a safe and stable matter
- Please route your power cord out of the way of foot traffic. Power cords should be routed so they are not likely to be walked on, pinched by items placed upon or against them
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See page 36 for cleaning details
- The unit should only 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 unit.
    - C. The unit has been exposed to rain or water.
    - D. The appliance does not appear to operate normally or exhibits a marked change in performance.

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.

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 American DJ®.

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

American DJ® will not accept any liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to this unit.

The Accu Fog 1000 carries a one 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 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.

- 3 Operating Modes - 5 or 7 DMX Channel Mode, Master/Slave Sound Active Mode; Stand Alone Sound Active Mode
- Internal Microphone
- 360° Pan Movement
- 265° Tilt Movement
- Digital Display for Address and Function Setting
- 1 Liter Removable, Rotating Tank Holder
- 1 Gallon Fog Fluid Container Holder (Optional, Sold Separately)
- Thermal Cut-Off Mechanism: Auto shutdown feature protects pump system when fog fluid get to low
- Electronic Thermo Sensing (ETS): Now warm-uo time between fog blasts
- RDMX Remote DMX Addressing: Change the DMX address using a DMX controller
- Smart Sense: Units automatically recognize if they are in DMX or Master/Slave mode

The new Accu Fog 1000 fog machines features a fog juice level sensor. When the fog juice level reaches a low level, a built-in sensor will automatically shut off the pump. This will greatly expand the life of the pump.

Power Supply: Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your American DJ® Accu Fog 1000. The American DJ® Accu Fog 1000 is available in a 120v and 220v version. Because line voltage may vary from venue to venue, you should be sure your unit voltage matches the wall outlet voltage before attempting to operate you fixture. Also be sure to only use the included I.E.C. power cable supplied with the unit, this cable matches the voltage and current requirements of the unit.

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 Accu Fog 1000 can be controlled via DMX-512 protocol. The Accu Fog 1000 is a five and a seven channel DMX unit, depending on what mode you are in. The DMX address is set electronically using the controls on the side 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). If you are making your own cables, be sure

Figure 1

to use standard two conductor shielded cable (This cable may be purchased at almost all professional sound and 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.
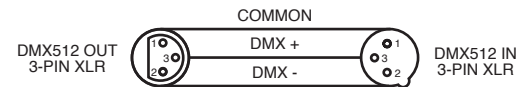
COMMON

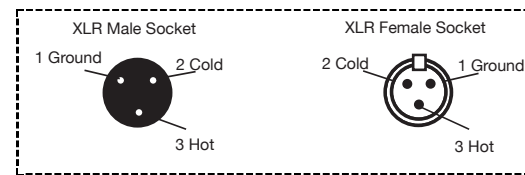DMX512 OUT
3-PIN XLR   DMX +   DMX512 IN
3-PIN XLR

DMX -

Figure 2

XLR Male Socket   XLR Female Socket

1 Ground   2 Cold   2 Cold   1 Ground

3 Hot   3 Hot

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 90-120 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 XLR connectors for DATA transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors 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

0	ADDR	AXXX A001			Indicate the staring DMX address A001 also is the setting for slave
1	TEST	T-01~T-XX			Automatically test the function
2	PLAY	RUN	MSTR/ALON		Runs fixture as "master" or "alone" for auto
		AUDI	MSTR/ALON		Runs fixture as "master" or "alone" for audio
		AUTO	OFF / RUN /AUDI		Runs fixture for no DMX
3	HEAT	ON/OFF			Manually switches heater "on" and "off"
4	RESE	ALL			Reset all motors and returns fixture to home
		SCAN			Reset only motors for pan/tilt
5	TIME	LIFE	0000~9999		Displays the total fixture running time
		HEAT	0000~9999		Displays a heater running time
		CLMP			Clear heater running time
6	RPAN	ON/OFF			Reverses the pan movements
7	RTLT	ON/OFF			Reverses the tilt movements
8	MIC	M-XX M-70			Mic sensitivity
9	DISP	VALU	D–XX D-00 (DXXX)		Display the DMX512 value of each channel
		D ON	ON/OFF		Display turn off after 2mins
		FLIP	ON/OFF		This function will reverse the display 180
10	SPEC	LAAU	ON/OFF		Automatic heater start with power
		RDMX	ON/OFF		Change DMX address via external controller
		MODE	5CH/7CH/		Channel mode select
		DLOF	ON/OFF		Switch heater via DMX
		DFSE	ON/OFF		Resets all the fixture functions to default
		FEED	ON/OFF		Pan/tilt feedback (error correction) on/off
		VER	V1.0~V9.9		Software version
11	EDIT	STEP	S–01 ~S–48		Set the amount of your program
		SCXX	C–01~C–30	0 1 XX(00~FFH) 3 0 XX(00~FFH)	Edit the channels of each scene
			TIME	T XXX(001~999)	Time for each scene
			CEDT	ON/OFF	Edit program via controller
		REC.	RE.XX		Auto Save
		RUN	ON/OFF		Program test

ADDRESS MENU -

A001 - A511 (Value) - This is where you set the DMX address of the unit.

TEST MENU -

T-01 - T-XX (Test) - Tests the functions of each channel.

PLAY MENU -

RUN - Runs the unit as a "master" in master/slave configuration or, in a stand alone mode. The unit will run in auto mode.

AUDI (Audio) - Runs the unit as a "master" in master/slave configuration, or in a stand alone. The unit will run in sound active mode.

AUTO - Runs the internal program.

RESE (RESET) MENU -

ALL - Resets all the motors in the unit.

SCAN - Resets the motors that control pan/tilt.

TIME MENU -

LIFE - Displays the fixtures total running time.

HEAT - Displays the heater running time.

CLMP - Clears the heater running time.

RPAN (REVERSE PAN) MENU -
ON/OFF - When "On" is chosen it will reverse the pan.

RTILT (REVERSE TILT) MENU -
ON/OFF - When "On" is chosen it will reverse the tilt.

MIC MENU -
MIC - With this function you can make the internal mic more or less sensitive to sound.

DISPLAY MENU -

VALU (DMX-512 Value) - Display the DMX-512 value of each channel.

D ON - Turns digital display off after 2 minutes.

FLIP - "Flips" the digital display 180º.

SPEC MENU -

LAAU - Automatically starts the heater when power is applied.

RDMX - Lets you adjust the DMX address via external controller.

MODE - 5Ch/7Ch With this function you can switch between 5 channels and 7 channels. See page 33 for the 5 Channel DMX traits, and 34-35 for 7 Channel DMX traits.

DLOF - This lets you switch the heater on via DMX.

DFSE (Default Settings) - Resets the unit to the default settings.

FEED - Turns the Pan/Tilt feedback (error correction) on/off

VER (Version) - Displays the software version

EDIT MENU -

STEP (S-01 - S-48) - These are the steps slots that you write your programs into. There are at total of 48 steps. See edit program, page 25.

SCXX (SC01 - SC30) - These are the scenes that are stored in your program. There are a total of 30 scenes.

REC - This will auto save your custom program.

RUN - This will run your custom program.

On-Board System Menu. The Accu Fog 1000 comes with an easy to navigate system menu. This next section will detail the functions of each command in the system menu.

Enter Button - To access the main menu locate the ENTER button on the side of the unit. Press this button to activate the system menu. Tap the UP button until you reach function you wish to change. When you reach the function you wish to change tap the ENTER button. When a function is selected the menu will begin to flash, use the UP button to change the function. Once your changes are made tap the ENTER button again to lock the change in the system, if the ENTER button is not selected within eight seconds the system will automatically return to menu section. To exit without making any changes tap the MODE/ESC button.

ADDR *MAIN MENU -*

ADDR **DMX Address Setting via control board -**

1. Access the main menu.

2. Tap the UP button until "ADDR" is displayed, press ENTER.

4. Now the display will show "A001". Adjust the DMX address by pressing the UP or DOWN buttons.

5. Press ENTER to confirm.

6. Press the MODE/ESC button to return to the main menu. ***When the display is on*** "A001", ***you can directly press the UP or DOWN buttons to change the DMX start address.***

TEST *MAIN MENU -*

TEST **- This will test the functions of each channel.**

1. Access the main menu.
2. Tap the UP button until "TEST" is displayed, press ENTER.

3. The display will show "T-01". You can now press the up

button and test the different channels. For example: If you press the up button until "T-03" is displayed, the unit will test the speed of the pan/tilt movement.

5. Press MODE/ESC to exit.

PLAY *MAIN MENU -*

RUN **Run the unit as a "master" in a master/slave configuration, or as a stand alone unit, in auto mode -**

1. Access the main menu.

2. Tap the UP button until "PLAY" is displayed, press ENTER.

3. Tap the UP button until "RUN" is displayed, press ENTER.

4. Tap the UP or DOWN button to choose between "MSTR" or "ALON". Select your preference and press ENTER.

5. Press MODE/ESC to return to the main menu.

AUDI **Run the unit as a "master" in a master/slave configuration, or as a stand alone unit, in sound active mode -**

1. Access the main menu.

2. Tap the UP button until "PLAY" is displayed, press ENTER.

3. Tap the UP button until "AUDI" is displayed, press ENTER.

4. Tap the UP or DOWN button to choose between "MSTR" or "ALON". Select your preference and press ENTER.

5. Press MODE/ESC to return to the main menu.

AUTO **Runs the unit in Sound Active mode or a Auto program -**

1. Access the main menu.

2. Tap the UP button until "PLAY" is displayed, press ENTER.

3. Tap the UP button until "AUTO" is displayed, press ENTER to confirm.

4. Now you can choose between "AUDI" or "RUN". "AUDI" is sound active mode and "RUN" is the auto mode. Select the mode that you want the fixture to run in and press ENTER.

5. Press MODE/ESC to return to the main menu.

HEAT *MAIN MENU -*

HEAT **- With this function you can manually switch the heater "On" and "Off".**

1. Access the main menu.

2. Tap the UP button until "HEAT" is displayed, press ENTER.

3. Tap the UP button until "HEAT" is displayed, press ENTER.

4. Press MODE/ESC to return to the main menu.

RESE *MAIN MENU -*

ALL **- When you activate the reset function, the fixture will begin the reset motion.**

1. Access the main menu.

2. Tap the UP button until "RESE" is displayed, press ENTER.

3. Tap the UP button until "ALL" is displayed.

4. Press ENTER to reset all motors, or press MODE/ESC to cancel and return to the main menu.

SCAN **- When you activate this reset function, the fixture will only reset the pan/tilt motor.**

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1. Access the main menu.

2. Tap the UP button until "RESE" is displayed, press ENTER.

3. Tap the UP button until "SCAN" is displayed.

4. Press ENTER to reset the pan/tilt motors, or press MODE/ESC to cancel and return to the main menu.

TIME *MAIN MENU -*

LIFE **- With this function you can display the total running time of the unit.**

1. Access the main menu.

2. Tap the UP button until "TIME" is displayed, press ENTER.

3. Tap the UP button until "LIFE" is displayed, press ENTER.

4. Press MODE/ESC to return to the main menu.

HEAT **- With this function you can display the running time of the heater.**

1. Access the main menu.

2. Tap the UP button until "TIME" is displayed, press ENTER.

3. Tap the UP button until "HEAT" is displayed, press ENTER.

4. Press MODE/ESC to return to the main menu.

CLMP **- With this function you can clear the running time of the heater.**

1. Access the main menu.

2. Tap the UP button until "TIME" is displayed, press ENTER.

3. Tap the UP button until "CLMP" is displayed, press ENTER.

4. Press ENTER to confirm.

5. Press MODE/ESC to return to the main menu.

RPAN *MENU -*
RPAN - **The movement of the Pan will be reversed.**

1. Access the main menu.

2. Tap the UP button until "RPAN" is displayed, press ENTER.

4. The display will show "ON/OFF".

5. Press the UP button to select "ON" to activate this function, or "OFF" to deactivate this function.

6. Press ENTER to confirm.

7. Press MODE/ESC to return to the main menu.

RTILT *MENU -*
RTILT - **The movement of the Tilt will be reversed.**

1. Access the main menu.

3. Tap the UP button until "RTILT" is displayed, press ENTER.

4. The display will show "ON/OFF".

5. Press the UP button to select "ON" to activate this function, or "OFF" to deactivate this function.

6. Press ENTER to confirm.

7. Press MODE/ESC to return to the main menu.

MIC *MENU -*
MIC - **The internal microphone can be made more or less sensitive.**

1. Access the main menu.

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3. Tap the UP button until "MIC" is displayed, press ENTER.

4. The display will show "M-01".

5. Press the UP or DOWN button to adjust the microphone sensitivity between "M-01 - M-70".

6. Press ENTER to confirm when you have reached your desired microphone sesitivity level.

7. Press MODE/ESC to return to the main menu.

DISP *MAIN MENU -*
VALU **Display the DMX-512 value of each channel -**

1. Access the main menu.

2. Tap the UP button until "DISP" is displayed, press ENTER.

3. Tap the UP button until "VALU" is displayed, press ENTER.

4. "VALU" should now be displayed, press MODE/ESC.

5. The display should show "D-00". Press the UP button in order to select the desired channel. If you select "D-05" the display will only show the DMX value of the 5th channel

6. Press ENTER to confirm.

7. Press MODE/ESC to return to the main menu.

Now the display will change as per the 5th channel DMX value.

D ON **Digital Display will turn off after 2 minutes -**

1. Access the main menu.

2. Tap the UP button until "MODE" is displayed, press ENTER.

3. Tap the UP button until "DISP" is displayed, press ENTER.

4. Tap the UP button until "D-ON" is displayed, press ENTER.

5. The display will show "ON/OFF". Press the UP button to select "ON" to activate this function, or "OFF" to deactivate this function.

6. Press ENTER to confirm.

7. Press MODE/ESC to return to the main menu.

FLIP - **This function will reverse the display 180º.**

1. Access the main menu.

2. Tap the UP button until "DISP" is displayed.

3. Press ENTER, the display will show "ON/OFF".

4. Press the UP button to select "ON" to activate this function, or "OFF" to deactivate this function.

5. Press ENTER to confirm.

6. Press MODE/ESC to return to the main menu.

SPEC *MAIN MENU -*

LAAU **With this function the heater will start when power is applied. By default the unit will automatically ingnite when power is applied. Use this function to disable that feature.**

1. Access the main menu.

2. Tap the UP button until "SPEC" is displayed, press ENTER.

3. Tap the UP button until "LAAU" is displayed, press ENTER.

4. The display will show "ON/OFF". Press the UP button to select "ON" to switch on the lamp, or "OFF" to switch off the lamp.

5. Press ENTER to confirm.

6. Press MODE/ESC to return to the main menu.

RDMX **With this function you are able to change the DMX address via any DMX controller. This function is factory set to "ON" already.**

1. Access the main menu by pressing MODE/ESC.

2. Tap the UP button until "SPEC" is displayed, press ENTER.

3. Tap the UP button until "RDMX" is displayed, press ENTER.

4. The display will show "ON/OFF". Press the UP button to select "ON" to activate this function, or "OFF" to deactivate.

5. Press ENTER to confirm, and "PASS" will flash quickly.

6. Press MODE/ESC to return to the main menu.

To use this function follow the 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: So, if you want the address to be 57, you must first set the address that is currently assingned to the unit. The proceed to set Channel 1s' value to "7", Channel 2s' value to "7", and Channel 3s' value to "57".

2ND EXAMPLE: Again, 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 1s' value to "7", Channel 2s' value to "8", and Channel 3s to "164". (256 + 164 = 420)

MODE - **Choose between five channel mode or seven channel mode.**

1. Access the main menu.

2. Tap the UP button until "SPEC" is displayed, press ENTER.

3. Tap the UP button until "MODE" is displayed, press ENTER.

4. By pressing the UP button or Down button chose "5CH" or "7CH". When the unit is switched to seven channels the unit will reset.

5. Press ENTER to confirm your selection.

6. Press MODE/ESC to return to the main menu.

OLOF - **With this function you can switch the heater on via the control board.**

1. Access the main menu.

2. Tap the UP button until "SPEC" is displayed, press ENTER.

3. Tap the UP button until "SPOT" is displayed, press ENTER.

4. The display will show "ON/OFF".

5. Press the UP button to select "ON" to activate this function, or "OFF" to deactivate this function.

6. Press ENTER to confirm.

7. Press MODE/ESC to return to the main menu.

OFSE - **With this function you can restore the factory settings of the device. All settings will be set back to the**

default values. Any edited scenes will be lost. When restoring the factory settings the unit must be set to the address that the unit was in when you started editing.

1. Access the main menu.

2. Tap the UP button until "SPEC" is displayed, press ENTER.

3. Tap the UP button until "OFSE" is displayed, press ENTER.

4. The display will show "ON/OFF".

5. Press the UP button to display "ON" to activate this function, or "OFF" to deactivate this function.

6. Press ENTER to confirm.

7. Press MODE/ESC to return to the main menu.

When you exit this function, the unit will begin to reload data.

FEED - **Use this function to activate/deactivate the the pan/tilt error correction. When the head is bumped or moved it will return to its previous postion.**

1. Access the main menu.

2. Tap the UP button until "SPEC" is displayed, press ENTER.

3. Tap the UP button until "FEED" is displayed, press ENTER.

4. The display will show "ON/OFF".

5. Press the UP button to select "ON" to activate this function, or "OFF" to deactivate this function.

6. Press ENTER to confirm.

7. Press MODE/ESC to return to the main menu.

VER - **Use this function to display the Software version of the unit.**

1. Access the main menu.

2. Tap the UP button until "SPEC" is displayed, press ENTER.

3. Tap the UP button until "VER" is displayed, press ENTER.

4. The display will show "V-1.0", the display may also show, "V-2.0", "V-9.9" etc.

5. Press MODE/ESC to exit.

EDIT - This menu item allows you to write a program into the memory (EEPROM) via the control panel or via the external controller.

STEP **- With this function you can program the number of steps in your individual Program.**

1. Access the main menu.

2. Tap the UP button until "EDIT" is displayed, press ENTER.

3. Tap the UP button until "STEP" is displayed, press ENTER.

4. The display shows "S-01", this stands for the first step of your program. You can call up to 48 scenes in "Run". For example, if "S-05" is displayed, it means that "Run" will run the first 5 scenes you saved in "Edit".

5. Press ENTER to save and press MODE/ESC to exit.

SC01 **- With this function you can choose the number of scenes in your Program.**

1. Access the main menu.

2. Tap the UP button until "EDIT" is displayed, press ENTER.

3. Tap the UP button until "SC01" is displayed.

4. The display shows "SC01", this stands for the first scene of your program. You can call up to 48 scenes. For example, if "SC05", it means that "Run" will run the first 5 scenes you saved in "Edit".

5. Press ENTER to save and press MODE/ESC to exit.

REC **- With this function you can record the scenes automatically for the external controller.**

1. Access the main menu.

2. Tap the UP button until "EDIT" is displayed, press ENTER.

3. Tap the UP button until "REC" is displayed.

4. The display shows "RE.XX", "XX" stands for the scene number in the internal memory of where your scenes from the controller will be stored.

5. Press the UP or DOWN button to select your desired scene number.

6. Press ENTER to confirm, and the fixture will record the scenes from the external controller.

7. Press MODE/ESC to return to the main menu.

RUN   **With the function "RUN", you can run your pre-made program. You can set the number of steps under Step (S-01 - S-48). You can edit the individual scenes under Edit.**

1. Access the main menu.

2. Tap the UP button until "EDIT" is displayed, press ENTER.

3. Tap the UP button until "RUN" is displayed, press ENTER.

4. "AUTO" is displayed. If you press the UP button it will show "SOUN". Select which one you want to activate, and press ENTER.

5. Press UP, to select "ALON" or "MAST". Which mean stand alone, and master/slave mode.

6. Select a mode, and press ENTER to confirm.

7. Press MODE/ESC to return to the main menu.

Editing procedure 1: Using the control board only.

1. Access the main menu.

2. Tap the UP button until "EDIT" is displayed. Press ENTER.

3. The display will show "SCXX", the "X" again stands for the scene number. For example, "SC01" is displayed, it means you will be editing scene 1, press ENTER. You can change the scene number by pressing the UP button.

4. Press ENTER, the display will show "C-X", the "X" again stands for the channel number. If "C-01" is displayed, you will be editing channel 1 of your selected scene, press ENTER. You can change the channel number by pressing the UP button.

5. The display will show the DMX value for the channel that is being edited. It will be displayed as "11XX", it stands for Channel 11 of the editing scene, the DMX value is "XX".

6. Adjust the DMX value by pressing the UP button, until you get the expected effect for this channel.

7. Press ENTER to enter the editing of the other channels of the scene.

8. Repeat steps 5-8, until you finish setting all the DMX values for all the channels of this scene, each scene can have 15 channels maximum.

9. Once all the channels are completed, the display will flash "TIME", this stands for the time needed to run this scene.

10. Press ENTER to edit the time needed, the display shows "TXXX", "X" stands for the time needed to run this scene. For example, "T002" means scene 1 needs 0.4 seconds to run, "T015" means scene 1 needs 3 seconds to run.

11. Adjust the time needed by pressing the UP button.

12. Press ENTER to save the settings for the scene you are editing, the display will change to the next scene automatically.

13. Repeat steps 3-12 to edit other scenes, you can edit and save 48 scenes maximum.

14. Press MODE/ESC to exit, now you have edited and saved scenes using the control board. The number of steps can be defined under "Step" and the scenes can be called up under "Run". To run the scenes see page 17.

Editing procedure 2: Using an external controller (Manually record scenes one by one):

1. Access the main menu.

2. Select "EDIT" by pressing the UP or DOWN buttons, press ENTER.

3. The display shows "SC01".

4. Press ENTER, and the display shows "C-01".

5. Select "CEDT" by pressing the DOWN button, and press ENTER.

6. The display "OFF", press the UP button so that "ON" is displayed, and press ENTER.

7. The display will show "SC02". You have now successfully downloaded the first scene.

8. Adjust the Step-time needed by pressing the UP button.

9. Call up the second scene in your controller now.

10. Repeat steps 7-9 until all desired scenes are downloaded.

11. Press MODE/ESC to exit. The number of steps can be defined under "Step" and the scenes can be called up under "Run".

Editing procedure 3: Record the selected scenes automatically from external controller:

1. Access the main menu.

2. Select "EDIT" by pressing the UP or DOWN buttons, press ENTER.

3. Press the UP button until the display shows "STEP", press ENTER.

4. Now adjust and set the number of steps by pressing the UP or DOWN buttons. Press ENTER to confirm the number of steps, and "PASS" will display briefly.

5. Now press the DOWN button until "REC" is displayed, and press ENTER.

6. The display will now show "RE.XX", "XX" stands for the scene number in the internal memory which the scenes from the controller will be stored to. Press ENTER when you have chosen the scene number.

7. Call up the scenes on the controller, and the fixture will record the scenes from the controller automatically. After the number of scenes as selected in the "STEP" menu are loaded into the fixture, it will stop the procedure and return to the previous menu.

8. Press MODE/ESC to exit the "EDIT" menu and return to the main menu.

When power is applied, the unit will automatically enter a "reset/test" mode. This mode brings all the internal motors to a home position. If there is an internal problem with one or more of the motors an error code will flash in the display in the form of "XXer", "XX" will represent a function number. For example, when the display shows "02Er," it means there is some type of error with the channel 2 motor. If there are multiple errors during the start-up process they will all flash in the display. For example: if the fixtures has errors on channel 1 and channel 2 at the same time, you will see the error message flash "01Er" and "02Er" repeated 5 times.

If an error does occur during the initial start-up procedure the fixture will self-generate a second reset signal and try to realign all the motors and correct the errors, if the errors persist after a second attempt a third attempt will be made.

If after a third attempt all the errors have not been corrected the fixture will make the following determinations:
1) 3 or more errors - The fixture cannot function properly with three or more errors therefore the fixture will place itself in a stand-by mode until subsequent repairs can be made.
2) Less than 3 errors - If the fixture has less than 3 errors, therefore most other functions will work properly. The fixture will attempt to operate normally until the errors can be corrected by a technician. The errors in question will remain flashing in the display as a reminder of internal errors.

01Er – PAN movement error:
If the yoke is not located in the default position after start-up or after a reset command. This message will appear after a fixture reset, if the pan-yoke's magnetic-indexing circuit malfunctions (sensor failed or magnet is missing) or there is a stepper motor failure (defective motor or a defective motor IC drive on the main PCB).

02Er – TILT movement error:
If the head is not located in the default tilt position after start-up or after a reset command. This message will appear after a fixture reset, if the tilt magnetic-indexing circuit malfunctions (sensor failed or magnet is missing) or there is a stepper motor failure (defective motor or a defective motor IC drive on the main PCB).

Operating Modes: *The Accu Fog 1000 can operate in three different modes. This next section will detail the differences in the operating modes.*

• ***Stand alone mode -***
The unit will run in stand alone auto mode, or stand alone sound active mode.

• ***Master/Slave mode -***
You can daisy chain up to 16 units together to get a synchronized light show without the need of an external controller. The units will run in auto mode, or sound active mode.

• ***DMX control mode -***
This function will allow you to control each individual fixtures traits with a standard DMX-512 controller such as the Elation® Show Designer.™

Universal DMX Control: This function allows you to use a universal DMX-512 controller such as the Elation® DMX Operator™ or Elation® Show Designer™ to control the various DMX traits. A DMX controller allows you to create unique programs tailored to your individual needs.
1. The Accu Fog 1000 has a five and seven DMX channel mode. See pages 33-35 for detailed description of the DMX traits.
2. To control your fixture in DMX mode, follow the set-up procedures on pages 7-9 as well as the set-up specifications that are included with your DMX controller.
3. Use the controller's faders to control the various DMX fixture traits.
4. This will allow you to create your own programs.
5. Follow the instruction on page 13 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.

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.
1. Access the main menu.
2. Tap the UP button until "PLAY" is displayed, and Press ENTER.

3. Tap the UP button until either "AUDI" (Sound Active) or "AUTO" (Automatic) is displayed. "AUTO" will make the unit run through a built-in program, while "AUDI" will make the unit sound active. Select your preference and press ENTER.
4. Press UP, to select "ALON" this will make the unit run in a Stand Alone mode. Press ENTER to confirm.
5. Press MODE/ESC to return to the main menu.
6. You may invert the pan and tilt functions in the system menu by following the directions on page 17.

Master-Slave Operation (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 Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling units programs. Any unit can act as a Master or as a Slave.
1. Using 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. Access the main menu.
2. Tap the UP button until "PLAY" is displayed, and Press ENTER.
3. Tap the UP button until either "AUDI" (Sound Active) or "AUTO" (Automatic) is displayed. "AUTO" will make the unit run through a built-in program, while "AUDI" will make the unit sound active. Select your preference and press ENTER.
4. Press UP to select "MAST" (Master). Press Enter to confirm. This unit is not the Master in a master/slave configuration. All other units daisy chained to this unit will fall into place and follow this units direction.
5. Press MODE/ESC to return to the main menu
6. You may invert the pan and tilt functions in the system menu by following the directions on page 17.

Accu Fog 1000		5 Channel DMX Traits
Channel	**Value**	**Function**
1	0 - 255	PAN
2	0 - 255	TILT
3 ↓		SPEED OF PAN/TILT MOVEMENT
	0 - 225	ADJUST MOVEMENT SPEED FAST ⟶ SLOW
	226 - 255	NO FUNCTION
4 ↓		PUMP DURATION (FOG) TIME
	0 - 20	PUMP OFF
	21 - 255	PUMP ON
5 ↓		AUTO PROGRAM
	0 - 39	NO FUNCTION
	40 - 59	HEATER ON
	60 - 79	HEATER SWITCH OFF
	80 - 99	MOTOR RESET
	100 - 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	SOUND ACTIVE

Accu Fog 1000		7 Channel DMX Traits
Channel	**Value**	**Function**
1	0 - 255	PAN
2	0 - 255	TILT
3 ↓		SPEED OF PAN/TILT MOVEMENT
	0 - 225	ADJUST MOVEMENT SPEED FAST ⟶ SLOW
	226 - 255	NO FUNCTION
4 ↓		PUMP ON/OFF
	0 - 20	PUMP OFF
	21 - 254	PUMP ON
	255	SMOKE CONTINUOUSLY
5		AUTO PROGRAM
	0 - 39	NORMAL CONTROL
	40 - 59	HEATER ON
	60 - 79	HEATER SWITCH OFF
	80 - 84	ALL MOTOR RESET
	85 - 87	SCAN MOTOR RESET
	88 - 99	NO FUNCTION
	100 - 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	SOUND ACTIVE
6 ↓		PUMP INTERVAL (PAUSE) TIME
	0 - 3	NORMAL
	4 - 10	10 SECONDS
	11 - 255	11 SECONDS ⟶ 255 SECONDS

Channel	Value	Function
7		FOG DURATION TIME
	0 - 3	0 SECONDS
	4 - 59	1 SECONDS
	60 - 119	5 SECONDS
	120 - 179	10 SECONDS
	180 - 239	15 SECONDS
	240 - 255	20 SECONDS

Fuse Replacement: Locate and remove the unit's power cord. Once the cord has been removed located the fuse holder located inside the power socket. Insert a flat-head screw driver into the power socket and gently pry out the fuse holder. Remove the bad fuse and replace with a new one. The fuse holder has a built-in socket for a spare fuse be sure not to confuse the spare fuse with active fuse.

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

If you experience low fog output, pump noise, or no fog output at all, disconnect and discontinue use immediately. Do not attempt to continue pushing the remote control's activation button as this may damage the fog machine. Check fluid level, the external fuse or breaker, remote connection, and be sure the wall outlet is sending power. If all of the above appear to be okay, and the unit fails to operate correctly, the unit will require service. Please contact American DJ®.

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.

1-YEAR LIMITED WARRANTY

A. American DJ® hereby warrants, to the original purchaser, American DJ® products to be free of manufacturing defects in material and workmanship for a period of 1 Year (365 days) from the date of purchase. 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, send the product only to the American DJ® factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, American DJ® 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, American DJ® 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 American DJ® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the American DJ® factory unless prior written authorization was issued to purchaser by American DJ®; 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, American DJ® will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of American DJ® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of American DJ®. All products covered by this warranty were manufactured after January 1, 1990, and bear identifying marks to that effect.

E. American DJ® 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.

F. 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 American DJ® 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 American DJ® be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

G. This warranty is the only written warranty applicable to American DJ® Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

H. Lamps are not covered under this or any other warranty, either written or implied.

Model:	Accu Fog 1000
Voltage:*	120v/60Hz or 230v/50Hz
Dimensions:	17.5"(L) x 13.75"(W) x 11.75"(H)
	442mm x 345mm x 295mm
Weight:	29lbs. / 13 kgs.
Fuse:	10A (120v) / 4A (220v)
DMX:	5 or 7 Channels
Sound Active:	Yes
Warm Up Time:	7 Minutes
Tank Capacity:	1 Liter Removable
Output:	10,000 cubic feet per minute
Fluid Type:	Water Base American DJ Fog Juice™
Duty Cycle:	Not to exceed 6 hours turned on.
Heater:	1,000 watt
Working Position:	Any Safe, Secure Position
Warranty:	1 Year (365 days)

*Voltage is preset at the factory and is not user selectable

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