VF1600	Specifications

MODEL - VF1600

VOLTAGE:*	120v or 230V, 50/60Hz
HEATER:	1500W
WEIGHT:	22 Lbs. / 10 Kgs
DIMENSIONS:	19.5" x 14" x 9" 495 x 355 x 230mm
FUSE:	15A (120V) / 10A (230V)
WARM UP TIME:	8 Minutes
TANK CAPACITY:	2.3 Liter
OUTPUT:	20,000 cubic feet per minute
FLUID TYPE:	Water Base American DJ Fog Juice
DUTY CYCLE:	Not to exceed 6 hours turned on.

**Voltage is preset at the factory and may not be changed*

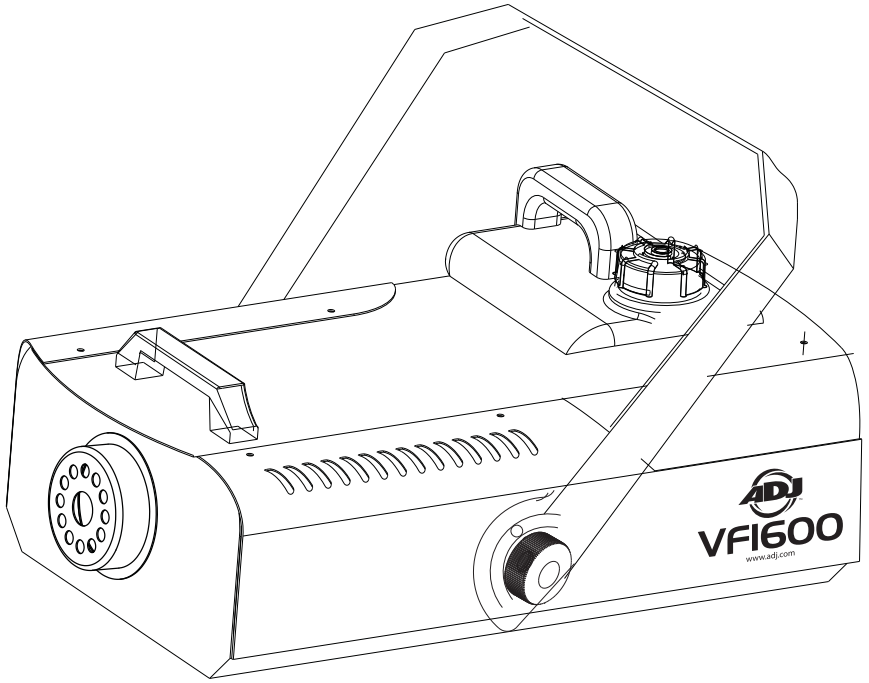
ADJ Products, LLC
6122 S. Eastern Ave. Los Angeles, CA 90040 USA
Tel: 323-582-2650 / Fax: 323-725-6100
Web: www.adj.com / E-mail: info@americandj.com

A.D.J. Supply Europe B.V.
Junostraat 2
6468 EW Kerkrade
Netherlands
service@adjgroup.eu / www.adj.eu
Tel: +31 45 546 85 00 / Fax: +31 45 546 85 99

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VF1600



Caution: Fog Machines may set off Smoke Alarms!

User Instructions

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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!

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 sevice (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, Laser Products and lamps)
- **Laser Products = 90-Day 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) and batteries which have a 180 day limited warranty).

VF1600 Fuse Replacement

Disconnect the unit from its power source. Remove the power cord from the unit. Once the cord has been removed, you will find that the fuse holder is 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 also has a holder for a spare fuse.

VF1600 Proper Storage and Maintenance

When storing your fog machine be sure to store it in a cool area. Cover the machine so that dust does not build up on the unit. When storing the machine for long periods of time, it is highly advised to at least run the machine every 3-4 months. Long periods of inactivity can severly shorten the life of your machine. Only run water based fog juice through your machine. Never run plain water, vinegar, or any other liquid solution through your machine. Running anything other then water based fog juice will severly damage your machine.

VF1600 Warranty Registration

The VF1600 fog machine carries a one year (365 days) 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 container. 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 customer support at (800) 322-6337.

VF1600 Trouble Shooting

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 the fluid level, the external fuse, remote connection, and be sure the wall outlet is sending power. If all of the above appears to be okay, and the unit fails to operate correctly, the unit will require service. Please contact ADJ Products, LLC.

VF1600 Introduction

Introduction: Congratulations, you have just purchased one of the most reliable fog machines on the market today! The VF1600 commercial fog machine have been designed to perform reliably for years when the guidelines in this booklet are followed. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this unit. These instructions contain important information regarding safety during use and maintenance.

Customer Support: ADJ Products, LLC provides a toll free customer support line, to provide set up 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. For service related issue please contact ADJ Products, LLC. Service Hours are Monday through Friday 8:00 a.m. to 4:30 p.m. Pacific Standard Time.

Voice: (800) 322-6337
Fax: (323) 582-2941
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.

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.

Do not discard the shipping cartoon in the trash. Please recycle when ever possible.

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.

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

- 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
- When storing for long periods of time, please follow the instructions on page 6 for proper maintenance and storage.
- 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
- 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.

Always be sure to maintain an adequate supply of American DJ Brand Fog Juice in the fluid reservoir. Running the fog machine dry will cause pump failure and or clogging. This is the largest cause of failure in fog and haze machines. Only American DJ Fog Juice is recommended and not all fog juice is created equal.

Timer Remote Operation: Start by connecting the remote to the fog machine. The timer function allows fog to be emitted at designated intervals. The remote has three (3) L.E.D.s that indicate different functions. ***WHEN THE DMX MODE IS ACTIVE THE TIMER FUNCTION WILL NOT WORK.***

- The YELLOW LED located to the left will indicate the timer is turned on and is activated.
- The RED LED will indicate that the remote is plugged in and active.
- The GREEN LED located to the right is for manual fogging, wait for the GREEN LED to light up, then press the button.

The remote also contains three rotary knobs.

- The Duration knob sets the timers duration (Length of fog output).
- The Interval knob sets the fog output intervals (Length between fog output)
- The Output knob sets the amount of fog the machine will output.

Caution: Before removing or replacing the remote control unit disconnect the power supply.

Wireless Remote Control: The VF1600 can also be operated by wireless remote. Plug the receiver box into the wireless input. Located on the side of the receiver are four dipswitches. Put any one of the four dipswitches in the ON position and the numbered button that corresponds to the numbered dipswitch will control fog output.
Example: Put dipswitch #3 in the ON position. Button 3 on the wireless remote will control fog output.

VF1600 Description

The new VF1600 fog machine included a revolutionary new heating element that has been specially designed to prevent excessive particle build up that can cause premature fogger failure. This fog machine has a wide-angle spray nozzle and long-life pump that was specially designed for high performance fogger output. The fog machine also includes a remote control, that may be removed for periods on non-use.

VF1600 Set-Up

1. Open the shipping carton and carefully remove the unit from the shipping carton.
2. Be sure to remove all the packing material especially around the nozzle.
3. Set the fog machine on a flat dry surface. Locate the included bracket from the package and install it using the supplied hardware to the side casing. Note: The bracket is an optional accessory and may not be used if desired, however if you intend to suspend the unit from truss the bracket must be used.
4. Fill the fog fluid reservoir with American DJ brand fog juice only and then tighten the cap.
5. Firmly attach the remote control unit to the rear remote control socket on the unit.
6. Plug the unit in to a matching power supply. At this time the fluid reservoir will glow red, this indicates that the unit is heating up. Wait about eight minutes for the fogger to reach normal operating temperature. When it has reached the temperature, the reservoir will glow green.
7. Either press the remote button to emit fog, use the timer function or use the manual button on the rear of the unit to emit fog. See Timer Remote operation on the next page for operating instructions.

VF1600 DMX Set Up

Power Supply: Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your ADJ VF1600. The VF1600 is available in a 120v and 220v version. Because line voltage may vary from venue to venue, you should be sure your unit voltages matches the wall outlet voltage before attempting to operate you fixture.

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 VF1600 can be controlled via DMX-512 protocol. The VF1600 1 channel DMX unit. The DMX address is set using the dipswitches on the rear 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



Figure 1

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.

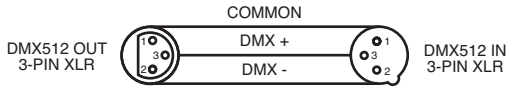


Figure 2



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

DMX Mode:

The VF1600 has 1 DMX channel. Channel 1 is fog output.

1. This function will allow you to control each individual fixture's traits with a standard DMX 512 controller.
2. To run your fixture in DMX mode set the DMX address using the dipswitches located on the rear panel of the unit.
3. After you have set your DMX address plug in the fixture via the XLR connections to any standard DMX controller. Follow the set-up specifications that come with your DMX controller.