X-310 PRO
Faze Machine User Manual



English • Français • Deutsch • 中文

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Congratulations on the purchase of your new

ANTARI X-310PRO Fazer

-Introduction

Thank you for choosing an ANTARI X-310PRO Fazer. You now own a rugged and powerful state-of-the-art machine. Besides its ability to operate silently, this new model is user-friendly in terms of controlling and operating. In addition, for Antari X-310PRO it is W-DMX compatible. Prior to use, we suggest that you carefully read all of the instructions. By following the suggestions found in this user manual, you can look forward to the reliable and satisfactory performance of your ANTARI Fazer Machine for years to come.

Cautions

Risk of electric shock. Disconnect the unit from the electric supply before removing the cover. Note: there are no user serviceable parts inside. Contact authorized Antari dealers or qualified technicians for assistance.

Please follow these operation, safety and maintenance instructions to ensure a long and safe life for your fog machine.

-Important Safeguards

-Danger of Electric Shock

- Keep this device dry.
- For inside use only. Not designed for outside use.
- For all models, machıne must be earthed. Prior to use take care to determine that the unit is installed at the rated voltage.
- Always unplug your ANTARI Fog Machine before filling its tank.
- Keep fog machine upright.
- Unplug the machine when not in use.
- This machine is not water- or splash-proof. If moisture, water, or fog liquid gets inside the housing, immediately unplug the unit and wipe off the moisture and keep it dry.

-Danger of Burns

- Structural modification inside the machine is not allowed at anytime. Please do not attempt to modify the machine by removing the cover, otherwise burns may result.
- For adult use only. Never leave the unit running unattended.

- Never aim the output nozzle directly at people.
- Machine will warm up when operating, locate the fog machine in a well-ventilated area. Never cover the unit's vents. In order to guarantee adequate ventilation, allow a free air space of at least 30 cm around the sides and top of the unit.
- Never aim the output nozzle at open flames.
- Always allow your ANTARI X-310PRO Fazer to cool down before attempting to clean or service it.

-Danger of Explosion

- Never add flammable liquids of any kind (oil, gas, perfume) to the fog liquid.
- Use only the high-quality, water-based ANTARI recommended FLG fog liquid. Other fog liquids may cause clogging or damage the internal parts.
- Always make sure there is sufficient liquid in the fog liquid tank. Operating this unit without liquid will cause overheating.
- If your ANTARI Fog Machine fails to work properly, discontinue use immediately.Drain all fog liquid from the tank, pack the unit securely (preferably in the original packing material), and return it to your ANTARI dealer for service.
- Always drain tank before mailing or transporting this unit.
- Never drink fog liquid.If it is ingested, call a doctor immediately.If fog liquid comes in contact with skin or eyes, rinse thoroughly with water.

Important:
Pay attention to all warning labels and instructions printed on the exterior of your ANTARI X-310PRO Fazer.

-Unpacking & Inspection

Open the shipping carton and verify that all equipment necessary to operate the system has arrived intact.

Before beginning initial setup of your ANTARI Fazer Machine, make sure that there is no evident damage caused by transportation. In the event that the unit's housing or cable is damaged, do not plug it in and do not attempt to use it until after contacting your ANTARI dealer for assistance.

-Packaging

The shipping carton should include the following items:

1. X-310PRO Fazer machine with power cable
2. X-10PRO Control module
3. Fluid tank
4. User manual

Optional Accessories:

1. X-30PRO Wireless Control Module
2. FX-310 X-310PRO Flightcase

-Setup

1. Remove all packing materials from shipping box. Check that all foam and plastic padding is removed, especially in the nozzle area.
2. Place fog machine on a flat surface and remove fog liquid tank cap.
3. Fill with only Antari Fog Fluid. Antari X-310PRO Fazer only works with uncontaminated Antari FLG Fog Fluid. Other fluids may cause spitting and serious clogging problem and could result in the production of an unhealthful fog. The use of other fluids will void the warranty of the Antari X-310PRO Fazer. When filled, place cap back on liquid tank.

-Operation

1. The plug is at a position that is accessible when the machine is in use.
2. Plug power cord into a grounded electrical outlet. Turn power switch on rear of unit to "**ON**" position. Warm-up is complete after approx. 8 minutes when the display on the control module indicates "**Ready to Fazer**".
3. To emit fog, please set the desired settings on your X-10PRO Control Module for interval, duration, and press the  appropriate button on the control module for the desired length of time.
4. The control unit's display will cycle "**Warming up**" and "**Ready to Fazer**" while the machine re-heats to the proper operating temperature.
5. When the fluid is running low, the LED inside the tank chamber starts blinking for two minutes and then stops the operation to protect the pump from running dry.
6. The "**Fanleaf**" design can be adjusted by the pump-type screws on both sides to position the faze output angle. In general, the haze produced from the X-310PRO Fazer is semi-transparent due to fan spread. Thus, it is best to position it on the low ground and let it produce haze upwardly to have ideal coverage.
7. For further information on operating your ANTARI X-310PRO Fazer, see the section titled, "**Control Module Operation**" on page 4.

Caution: "Visibility during operation is reduced"

Important:

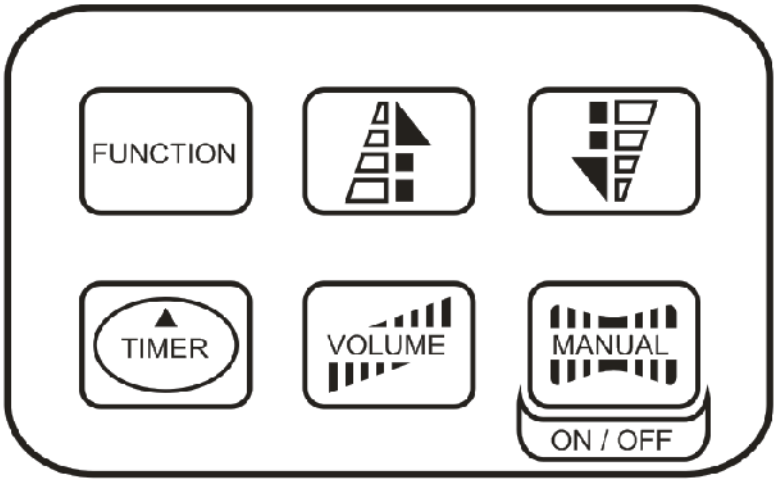
Always monitor tank fluid level as you are fogging. Running a fog machine with no fluid can permanently damage the pump.

If you experience low output, pump noise or no output at all, unplug immediately. Check fluid level, the external fuse, control module connection, and power from the wall. If all of the above appears to be O.K., plug the unit in again. If fog does not come out after holding the 

button down for

30 seconds, check the hose attached to the tank to make sure there is fluid going through the hose. If you are unable to determine the cause of the problem, do not simply continue pushing the control module button, as this may damage the unit. Return the machine to your ANTARI dealer immediately.

-Antari X-10PRO Control Module Operation



1. FUNCTION
Sub-menus:
-->Interval Set
-->Duration Set
-->Timer Out
-->Volume Out
-->Nonstop Burst
-->DMX 512 Add
-->Fan Speed
-->Heat & Fan
2. Up-/Down-button
3. Timer-button
4. Volume-button
5. Manual-button

X-10PRO: The X-PRO is a 2-meter wired multifunction remotecontrol module with 5-pin XLR connector for ANTARI X-PRO series model X-310PRO. Its LCD panel displays all operation statuses of the fog machine. The interface allows the operator to customize fog machine functions by adjusting the fogging duration, interval, volume, fan and heater as well as the DMX address . There are six buttons on the control board. All current operating parameters are automatically stored in non-volatile memory, allowing the machine to be powered down without losing function settings.

-Menu Settings With The Button FUNCTION

Setting time intervals for timer operation

Press the button **FUNCTION** until the display indicates » **Interval Set** « . Use the buttons **UP** and **DOWN** to adjust the intervals between the individual fog outputs in timer mode within the range of 1 and 200 seconds.

Setting the output duration for timer operation

- Press the button **FUNCTION** until the display indicates » **Duration Set** «. Use the buttons **UP** and **DOWN** to adjust the duration of the fog outputs in timer mode within the range of 1 and 200 seconds.

Setting the fog output volume for timer operation

- Press the button **FUNCTION** until the display indicates » **Timer Out** «. Use the buttons  **UP** and  **DOWN** to adjust the fog output volume in timer mode within the range of 1 % and 100 %.

Setting the fog output volume for continuous operation

- Press the button **FUNCTION** until the display indicates » **Volume Out**«. Use the buttons  **UP** and  **DOWN** to adjust the fog output volume in continuous mode within the range of 1 % and 100 %.
- To set the unit to continuous fog output, select » **NON STOP BURST** « below a value of 1 % or above a value of 100 %.

Setting the DMX512 address

- Press the **FUNCTION** until the display indicates » **DMX 512 Add** «. Use the buttons  **UP** and  **DOWN**, to set the machine to the same address as on your DMX controller. Please refer to the chapter DMX512 settings for more information on DMX operation.

Setting the fan speed

- Press the **FUNCTION** until the display indicates » **LOW>HI** «. Use the buttons  **UP** and  **DOWN**, to adjust the fan speed.

Turning the fan and heater on or off

- Press the **FUNCTION** until the display indicates » **Heater & Fan Open** «. Use the button 

MANUAL, to switch the fan and the heater on or off.

Continuous operation

- Press the button **VOLUME** , to activate continuos fog output. The display indicates » **Volume** « followed by the value that was set in menu item » **Volume Out** « or » **NON STOP BURST** « when maximum fog volume was selected. To stop the fog output, press the button **VOLUME** once again.

Manual operation

- For immediate fog output at the maximum volume of fog, keep the button 

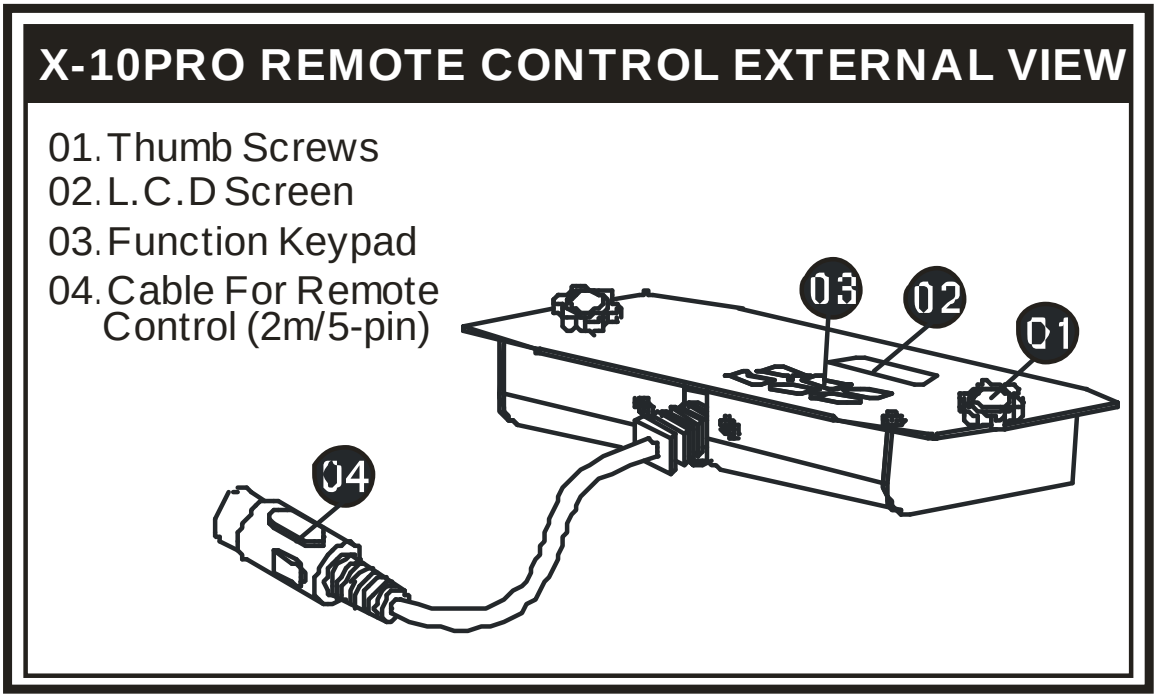
MANUAL pressed. The display indicates » **Manual 100 %** «. As soon as you release the button, the fog output will stop. The manual operation will take priority over the continuous operation and the timer operation. Even if one of these operating modes is activated, the fog machine will always emit the maximum volume of fog when the button 

MANUAL is pressed.

Timer operation

- In the time mode, the fog machine will automatically emit fog. The time intervals, duration and

fog volume depend on the corresponding menu settings. Press the button **TIMER** , to activate the timer mode. The display indicates the set time interval. The unit counts down to 0 seconds and emits fog. To deactivate the timer mode, press the button **TIMER** again.



-Antari X-30PRO Control Module Operation

X-30PRO Wireless Control Module Operation

All the X-10PRO features plus wireless capability.

The wireless control module X-30PRO consists of a transmitter equipped with two buttons for fog on and off, and a receiver pre-attached to the panel of each X-30PRO.

*** Transmitter:**



With the transmitter it is possible to emit fog via radio over a distance of up to 50 meters. The transmitter is compatible to any receiver of the X-30PRO and can control an unlimited number of machines in parallel.

Press the button “A”, to emit fog. The button “A” has the same function as the button VOLUME on the control panel, i.e. the fog output depends on the setting of menu item »Volume Out«. The display indicates »Volume« followed by the defined value or »NON STOP BURST« when continuous fog output was selected. To stop the fog output, press the button “B”.

*** Receiver:**



The receiver is tested and pre-attached to the panel of each Z-30PRO. Please do not try to remove it. The receiver responds to up to 5 different transmitters that are registered with the machine. The included transmitter has been registered to the machine before shipment. It can be directly operated without any start-up setting.

-Registering transmitters

To operate the machine with a different transmitter than the included one, or to operate it with up to 5 different transmitters, each transmitter must be registered first. For this purpose, turn on the machine. When the display indicates »Wireless Setup«, press the button “A” 1 second on each transmitter. Thus the previous transmitters are cleared from the memory of the receiver. The setting must be completed within 15 seconds after switching on the machine. Then the machine will automatically exit the transmitter setting mode. The display shows »Wireless Setup OK«. At this point, no further transmitter can be added.

If no transmitter is registered when the machine is switched on, the memory of the receiver will keep the record of the previous operation.

Setting Example 1:

In order to register several transmitters with a machine, turn on the machine. When the display indicates »Wireless Setup«, press the button “A” 1 second on each transmitter within 15 seconds to establish the signal transmission.

Setting Example 2:

In order to use 1 transmitter to control 2 or more machines, turn on the machines respectively. When the displays indicate »Wireless Setup«, press the button “A” 1 second on the transmitter within 15 seconds to establish the signal transmission.

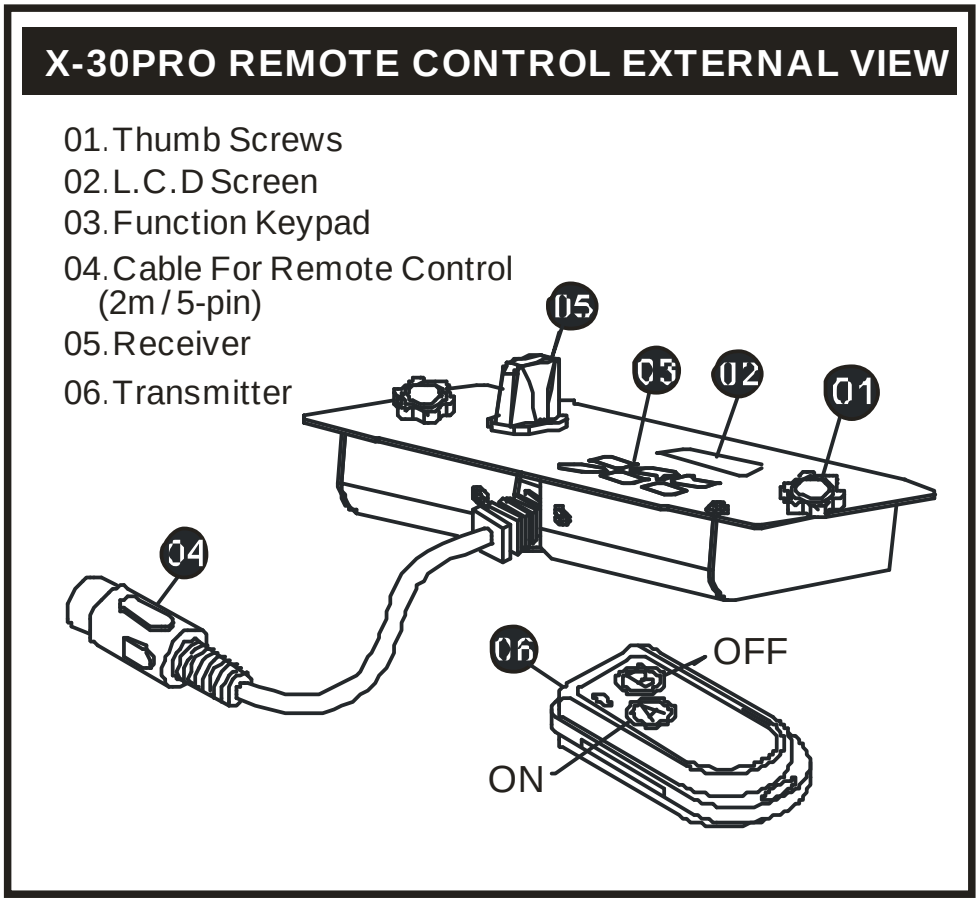
-Battery change on the transmitter

If the range of the transmitter decreases, the battery is probably exhausted and must be replaced. For this purpose, take off the housing cover and remove the used battery. Insert a fresh DC 12V battery as indicated in the battery compartment and refit the housing cover.

Switching the wireless function on and off

Press the button FUNCTION until the display indicates »Wireless On«. Use the buttons UP and DOWN to deactivate the wireless function (indication »Wireless Off«) and to reactivate it (indication »Wireless On«).

- Note: When warming-up process is completed and wireless function is activated the LCD screen indicates “Ready To Faze W”. (“W” means Wireless) On the contrary, when the wireless function is deactivated the LCD screen shows “Ready To Faze” (Without “W”).



-ANTARI On-Board DMX Module Settings

There are 3-pin and 5-pin male/female DMX control sockets for connecting your selection located at the rear panel of the X-310PRO fazer. The X-310PRO Fazer has on-board DMX control. This model uses two channels to control Volume output and Fan speed. Whatever channel you select on the unit, the channel next to it will automatically be selected for fan volume control. The X-310PRO fan has three fan speeds: Slow, Medium, and Fast. If the machine was assigned to the DMX address 124 e.g., Channel A would correspond to DMX address 124 and channel 125 will automatically be selected for fan control.

Please note: Your X-310PRO Fazer and its liquid tank and tube were thoroughly tested and cleaned. When operating the unit for the time, please press the button 

MANUAL for 3 to 5 seconds to let the unit circulate. Please do not try to set the timer function on your first operation. In addition, it is normal for the machine to produce some pumping sound for about 3 to 5 seconds. After the machine is operating smoothly you can start to set the desired operating functions. In future, it is strongly recommended to empty the liquid tank before transporting and follow the methods mentioned above for machine circulation after each transportation.

Channel A (Fan speed)

Value	Function
0-85	SLOW
86-170	MEDIUM
171-255	FAST

In general, fan speed and fog density are in reverse propotion. For example, if you are operating at 100% fog output, and fan speed is slow, heavy fog is being produced. When fan speed is high, fog density is consequently lighter/more transparent.

Channel B (Volume control)

Value	Function
0-5	OFF(0%)
6-255	Volume Control (5 % - 100 %)

If Channel B has a value from 0 to 5, the unit is OFF.
Between the values 6 to 255 the volume of fog output is regulated. With 6 being the minimum volume of fog produced and 255 the maximum. The volume output rises as the DMX value is increased. The Antari X-310PRO Fazer can produce maximum continuous output.

-Maintenance & Storage

- Do not allow the fog liquid to become contaminated. Always replace the caps on the fog liquid

container and the fog machine liquid tank immediately after filling. Do not operate the fog machine without liquid at any time.

- Clean with a dry cloth only. Store dry. Cleaning your fog machine regularly will help reduce costly replacement and repair charges.

Note: All fog machines are prone to clogging due to the thick consistency of fog liquid and the high temperature at which it vaporizes. It is strongly recommended that after 2,000 hours of operation, do regular maintenance and services. A properly maintained fog machine should provide years of reliable use.

- It is strongly recommended to test-run the machine on a monthly basis in order to achieve its best fogging condition. A test-run consists of warming up the machine followed by a few minutes of emission. Then please cool down the machine.

-Performance Notes

- It is recommended that you set Fan output to 100% and Fog Volume output between 15 to 20%. This setting will guarantee continuous output of very fine haze effect. Press button to set your desired fog effect.
- Whenever enormous effect is required, press 

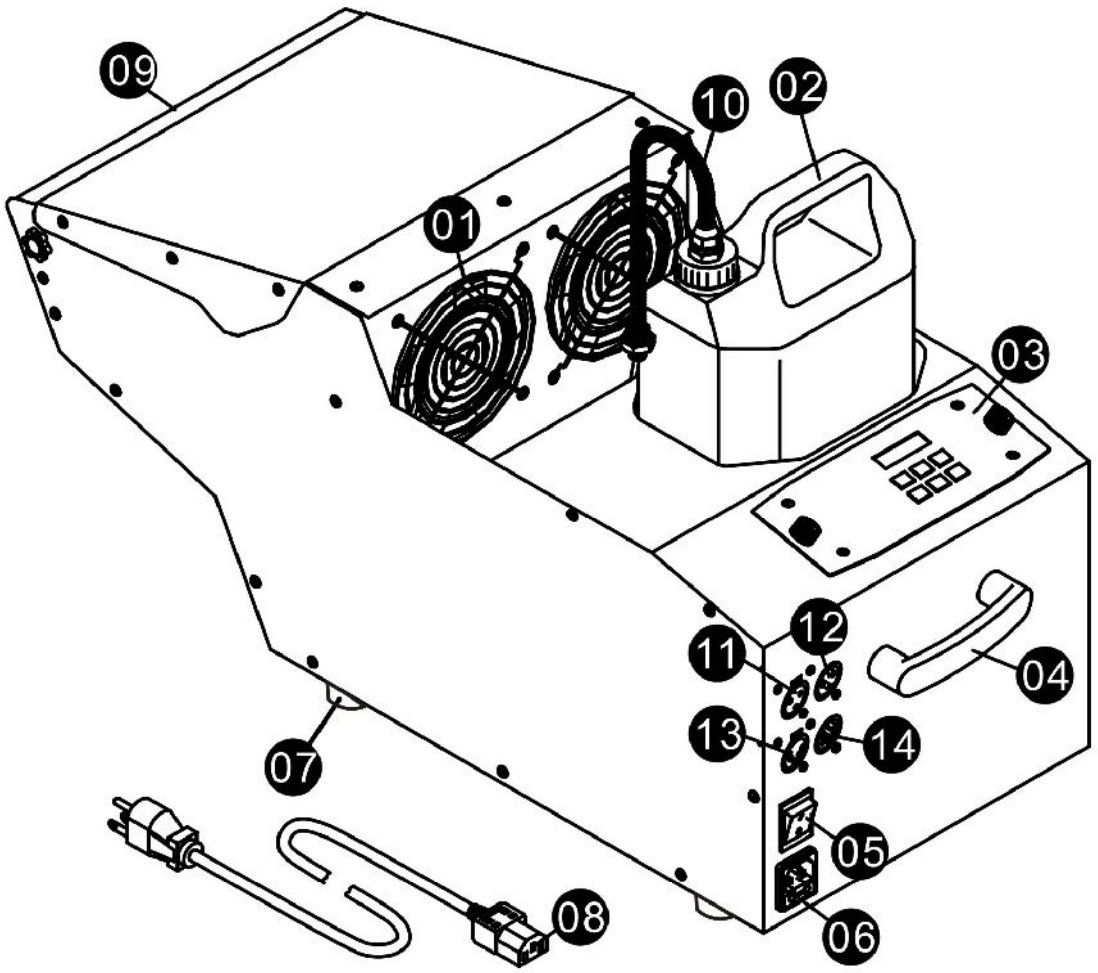
Manual key to emit faze at 100% output instantly.

-Specifications

MODEL	X-310PRO
Power	100/120 VAC, 230/240 V AC
	50-60 Hz
Heater	1,000W
Fog Output	10,000 cu.ft./min
Output Pressure	0.686 pa
First Heat-up Time	10 min
Fluid Consumption Rate	45 min/liter, 2 hr. /Liter
	(100% output, 30% output)
Tank Capacity	2.4 Liter
Weight	18 kg
Dimensions(mm)	L635 W275 H281

Please read and save these instructions.

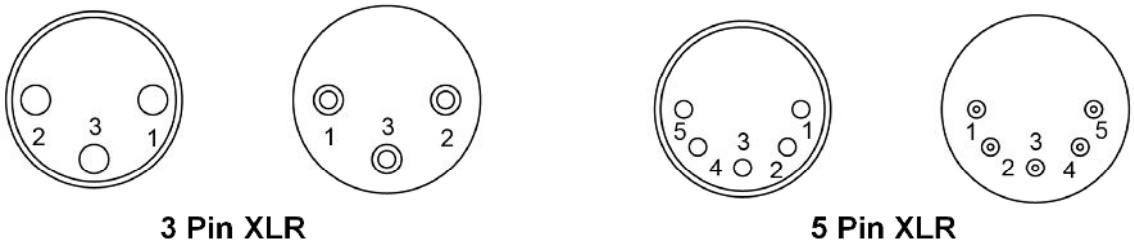
X-310PRO EXTERNAL VIEW



01.Fan
02.Tank
03.Wired Remote Module (X-10PRO)
04.Handle
05.Rock Switch/Power
06.Power Inlet Socket & Fuseholder
(120VAC 250V/T10A)
(230VAC 250/F5A)
07.Shockproof foot
08.Power Cord and Plug
09.Vent
10.Plastic Corrugated Pipes
11.Control Inlet Socket
(3 Pin XLR)
12.Control Outlet Socket
(3 Pin XLR)
13.Control Inlet Socket
(5 Pin XLR)
14.Control Outlet Socket
(5 Pin XLR)

-DMX Connector Pin Assignment

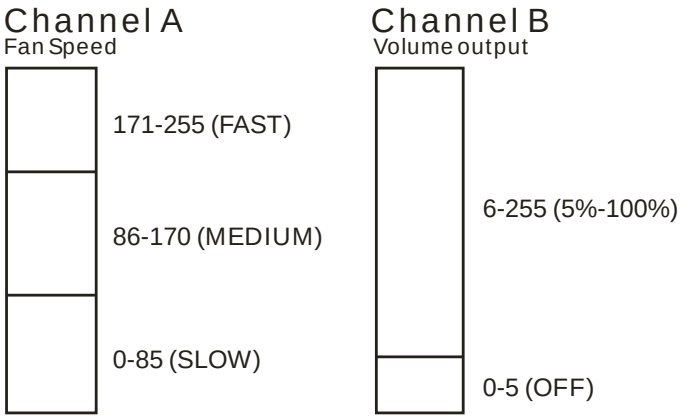
The machine provide 3 or 5 pin XLR connector for DMX connection. Diagram below indicate pin assignment information



3 Pin XLR　　5 Pin XLR

Pin	Function
1	Ground
2	Data-
3	Data+

-ANTARI X-310PRO on-board DMX settings



The X-310PRO Fazer has on-board DMX control. This model uses 2 channels to control Volume output operation and Fan operation. Whatever channel you select on the unit, the channel next to it will be automatically selected for fan volume control. Each channel has a value range of 0 to 255. Timer functions such as duration and interval can be programmed using the DMX controller or the DMX control software being used by lighting and effects operator.

If Channel B has a value from 0 to 5,
The unit is OFF.

Between the values 6 to 255 the volume of fog output is regulated. With 6 being the minimum volume of fog produced and **255** approaching the maximum. The volume output rises as the DMX value is increased.

Note: If the machine was assigned to the DMX address 124 e.g., Channel A would correspond to DMX address 124 and channel 125 will automatically be selected for fan control.

The Nonstop Burst Function (continuous fog output) cannot be controlled or set via DMX.

ANTARI LIMITED WARRANTY

Thank you for purchasing an Antari product from an authorized Antari dealer. We take great pride in the highest quality and reliability of our products. Please follow proper operation and storage procedures outlined in your accompanying user manual.Shall you require any further assistance, please kindly contact sales@antari.com

Warranty shall be valid only if the product is purchased from Antari's authorized distributors or dealers. For warranty service, send the product in original packaging to an authorized distributor or dealer.

All warranties are void if the product has been modified in any manner; if the product has been repaired or serviced by unauthorized personnel; or the product is damaged due to improper use or maintenance as set forth in the instruction manual.

This is not a service contract and does not include standard maintenance or cleaning. All expendables are not covered by this warranty.

Additional warranties provided at the discretion of the distributor dealers shall remain the sole obligation of the distributor or dealer.