Table of contents

Warning

For your own safety, please read this user manual carefully before your initial start-up!

Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Your shipment includes:

- Antari IP-1500 (cable length: 1,5 m)
- 1 x PU pipe
- Wireless remote control
- 1 x safety eye
- 2 x adjustment screw,
- 1 x mounting bracket
- User manual
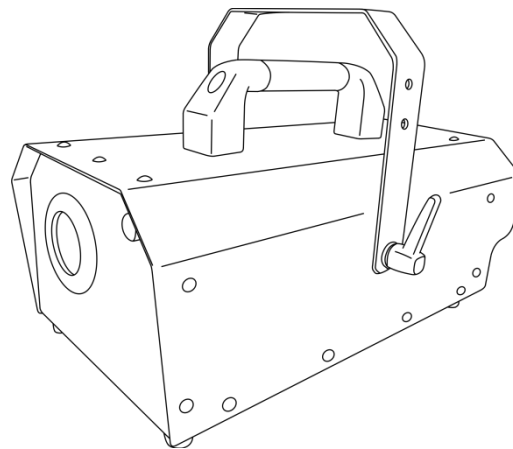
CAUTION!
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!

Safety Instructions

Every person involved with the installation, operation and maintenance of this device has to:
- be qualified
- follow the instructions of this manual

CAUTION! Be careful with your operations.
With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires!

Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.
Please consider that damages caused by manual modifications to the device are not subject to warranty.
This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:
The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power cord come into contact with other cables! Handle the power cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never aim the output directly at people.
- Never aim the output at open flames.
- Never add flammable liquids of any kind (oil, gas, perfume) to the fog liquid.
- 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.
- Never lock fog-filled rooms. Risk: panic among the locked persons!
- Never blow fog permanently! The fog must only be used for a short period of time.
- Do not connect this device to a dimmerpack.
- Do not switch the device on and off in short intervals, as this would reduce the device's life.
- Only use fog in well-ventilated rooms.
- Only use the high-quality, fog liquid, that your dealer recommends **(ordercodes: 60603, 60629, 60637)**. Other fog liquids may cause poor effect.
- Avoid flames and do not put close to flammable liquids or gases.
- Always make sure there is sufficient liquid in the fog liquid tank. Operating this unit without liquid will cause damage to the pump.
- Always allow free air space of at least 20 cm around the sides and top of the unit.
- Always drain tank before shipping or otherwise transporting this unit.
- Always keep the fog machine upright.
- For adult use only. Fog machine must be installed out of the reach of children. Never leave the unit running unattended. Leave the grid guarding the fog output sleeve in place if the machine is to be used in the presence of children.
- Always keep the fog output at least 50 cm away from contact with anything, while in operation.
- Always disconnect power from the mains, when device is not used or before cleaning! Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power cord is never crimped or damaged. Check the device and the power cord from time to time.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified technician inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Antari 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.
- Allow time to cool down, before cleaning or servicing.
- The residence time of persons in fog-filled rooms with visibility lower than 15 meters must never exceed 5 minutes.
- The use of fog liquid is only allowed for adults.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- In dense, fog-saturated surroundings, the oxygen portion is substantially reduced!
- The fog density must be portioned in a way that the visibility is always higher than 5 meters. Danger of anxiety state due to missing orientation!
- Every fog-filled room must be overseen by a skilled person.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- WARRANTY: Till one year after date of purchase.

Operating Determinations

- This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.
- The maximum ambient temperature ta = 40°C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 40° C.
- If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.
- Any other operation may lead to dangers like short-circuit, burns, electric shock, crash etc.

You endanger your own safety and the safety of others!

Rigging

Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

Do not attempt the installation yourself!
Always let the installation be carried out by an authorized dealer!

Procedure:

- If the fog machine is lowered from the ceiling or high joints, professional trussing systems have to be used.
- Use a clamp to mount the fog machine, with the mounting-bracket, to the trussing system.
- The fog machine must never be fixed swinging freely in the room.
- The installation must always be secured with a safety attachment, e.g. an appropriate safety net or safety cable.
- When rigging, derigging or servicing the fog machine, always make sure, that the area below the installation place is blocked and that unauthorized persons are not in the area.
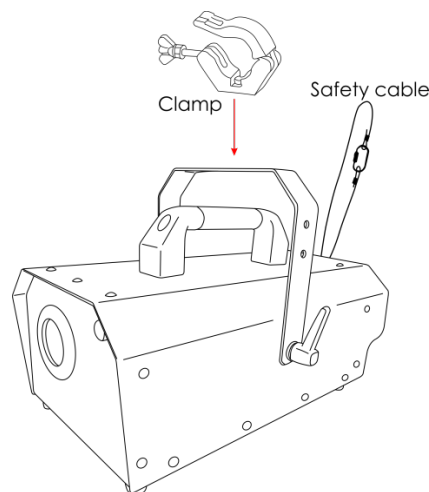
Connection with the mains

Connect the device to the mains with the power-plug.
Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	PHASE
N	BLUE	BLACK	SILVER	NEUTRAL
⏚	YELLOW/GREEN	GREEN	GREEN	PROTECTIVE GROUND

Make sure that the device is always connected properly to the earth!

Improper installation can cause serious damage to people and property!

⚠ Return Procedure ⚠

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail aftersales@highlite.nl and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:
01) Your name
02) Your address
03) Your phone number
04) A brief description of the symptoms

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any short-comings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.

Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

Description of the device

Features

The Antari IP-1500 is a powerful fog machine. With the Antari, you can create a cosy and foggy atmosphere in any venue.

- Input Voltage: 100-240V, 60/50Hz
- Power consumption: 1300W
- Output volume: 20000 cu.ft/min
- Fluid consumption: 11L/min.
- Power connection: Schuko
- DMX control: 1 channel
- 5-pin DMX signal connector IN
- Included: wireless remote control
- Warm-up time: 10 min.
- IP rating: IP63
- Dimensions: 460 x 224 x 290 mm (LxWxH)
- Weight: 12 kg

Optional accessories:
60603 – Fog Fluid Regular
60629 – Fog Fluid Light
60637 – Fog Fluid High Density

Frontside
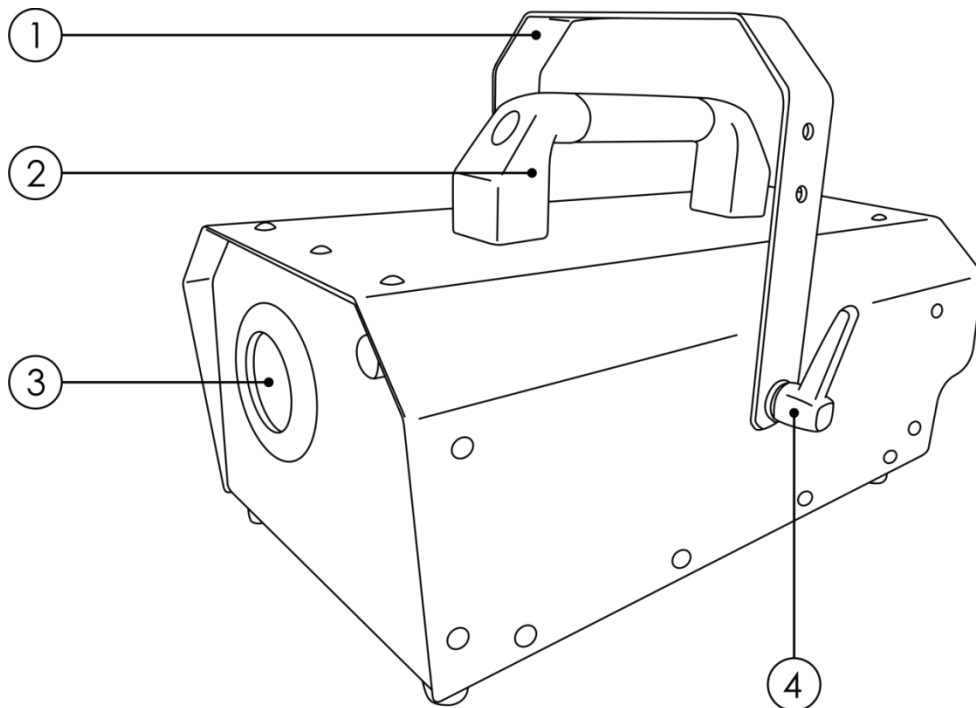
Fig. 01

01) Mounting bracket with inclination screw (included)
02) Carry handle
03) Fog output
04) Adjustment screw (included)

Backside
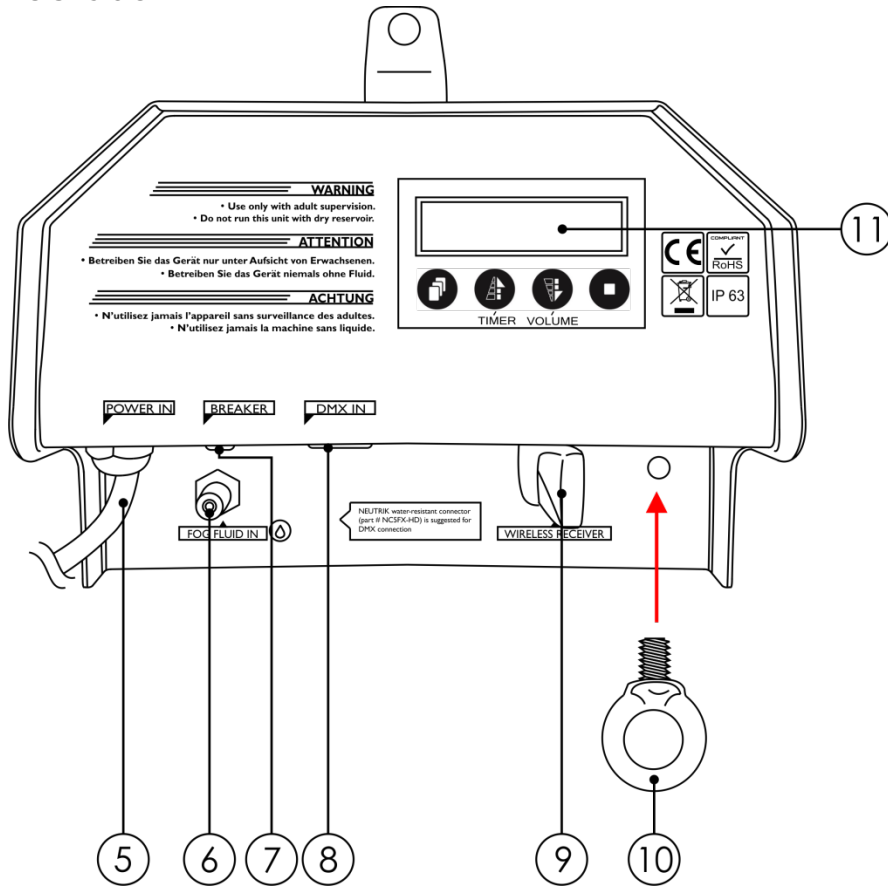
Fig. 02

05) Schuko power cable
06) Fog fluid IN
07) Circuit breaker
08) 5-pin DMX signal connector IN
09) Wireless receiver
10) Safety eye (included)
11) LCD display + menu buttons

Remote control
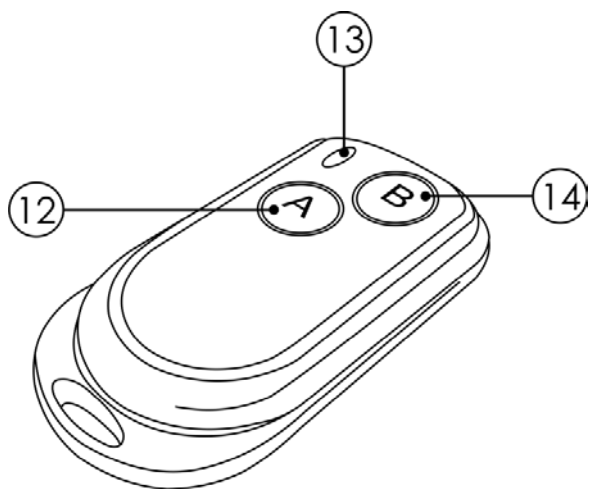
12) "A" button
13) LED indicator
14) "B" button

Fig. 03

Installation

Remove all packing materials from the Antari IP-1500. Check if all foam and plastic padding is removed, especially in the fog output area.

Use with fog liquid **(ordercodes: 60603, 60629, 60637)** or other high-quality fog liquid. Any other types of liquid can damage the unit.

The unit can also be operated at floor level or sitting on any regular surface as well.

If the unit is to be mounted using the bracket, it is important that the fog does not shoot directly at anybody's face. Therefore, do not point the output in a direction that will aim directly at a person.

Whatever installation method you choose, the unit must always be placed in horizontal position.

Always disconnect from electric mains power supply before cleaning or servicing.

Damages caused by non-observance are not subject to warranty.

Set Up and Operation

Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

Note: Always monitor fog tank level liquid indicator when making fog!

Note: Be careful not to exceed the maximum fluid level. DO NOT OVERFILL!

Note: Running a fog machine with no fog liquid can permanently damage the unit!

PU pipe installation

01) Place the Antari on a flat surface.
02) Remove the screw from the fog fluid input **(06)**.
03) Slide the included PU pipe through the hole in the screw and reattach the screw with the pipe to the input. Make sure that the pipe is fitted properly.

Fig. 04
Fig. 05

## Control Modes

There are 3 modes:
- Timer mode
- Continuous mode
- DMX-512 (1CH)

One Antari (Timer mode and Continuous mode)
01) Fasten the effect light to a firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Plug the end of the electric mains power cord into a proper electric power supply socket.
03) When the Antari is not connected with a DMX cable, it functions as a stand-alone device.
    Please see pages 12-14 for more information about Timer mode and Continuous mode.

Multiple Controllers (DMX Control)
01) Fasten the effect light to a firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Use a 5-pin XLR cable to connect the Antari.
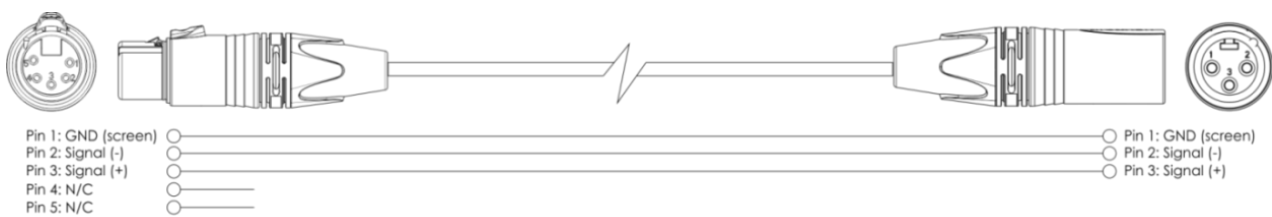
04) Link the units as shown in fig. 06. Connect the unit's DMX "in" socket with the controller's "out" socket, using a DMX signal cable.
05) Supply electric power: Plug the mains power cord into proper electric power supply socket.
06) Do not supply power before the whole system is set up and connected properly.

Multiple Controllers DMX Set Up
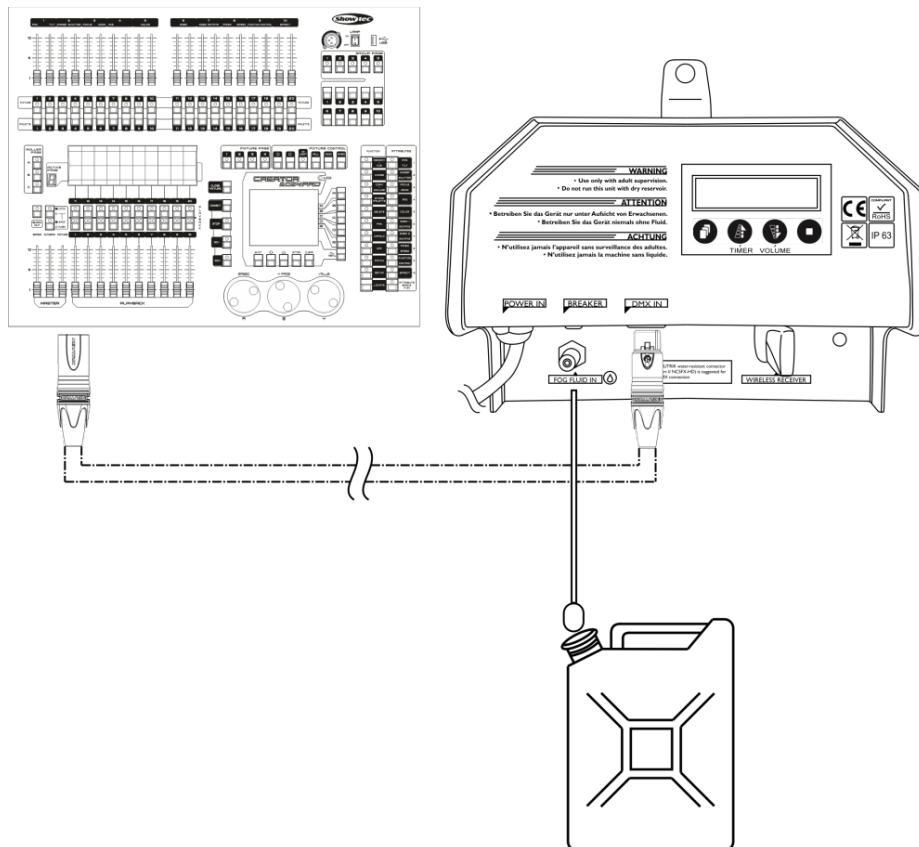
Fig. 06

Note : Link all cables before connecting electric power

Data Cabling

To link fixtures together, you must obtain data cables. You can purchase DAP Audio certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable, please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

DAP Audio DMX Data Cables

- DAP Audio Basic microphone cable for allround use. bal. XLR/M 3-pin > XLR/F 3-pin. **Ordercode** FL01150 (1,5 m), FL013 (3 m), FL016 (6 m), FL0110 (10 m), FL0115 (15 m), FL0120 (20 m).
- DAP Audio X-type data cable XLR/M 3-pin > XLR/F 3-pin. **Ordercode** FLX0175 (0,75 m), FLX01150 (1,5 m), FLX013 (3 m), FLX016 (6 m), FLX0110 (10 m).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. **Ordercode** FL71150 (1,5 m), FL713 (3 m), FL716 (6 m), FL7110 (10 m).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. **Ordercode** FL7275 (0,75 m), FL72150 (1,5 m), FL723 (3 m), FL726 (6 m), FL7210 (10 m).
- DAP Audio 110 Ohm cable with digital signal transmission. **Ordercode** FL0975 (0,75 m), FL09150 (1,5 m), FL093 (3 m), FL096 (6 m), FL0910 (10 m), FL0915 (15 m), FL0920 (20 m).
- DAP Audio DMX adapter: 3-pin/5-pin. **Ordercode** FLA30.

Control Panel

The Antari IP-1500 can be operated with a light controller in **control mode** or without the controller in **stand-alone mode**.

A) LCD display
B) FUNCTION button
C) TIMER button
D) VOLUME button
E) STOP button
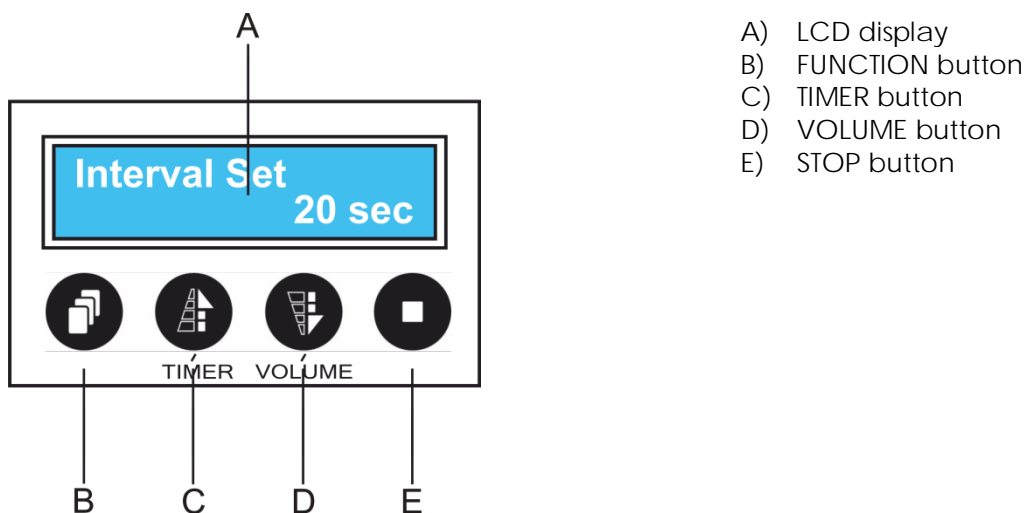
Fig. 07

Control Mode

The fixture is individually addressed on a data-link and connected to the controller.
The fixture responds to the DMX signal from the controller. (When you select the DMX address and save it, the controller will display the saved DMX address, next time.)

DMX Addressing

The control panel on the front side of the base allows you to assign DMX fixture address, which is the first channel with which the Antari will respond to the controller.
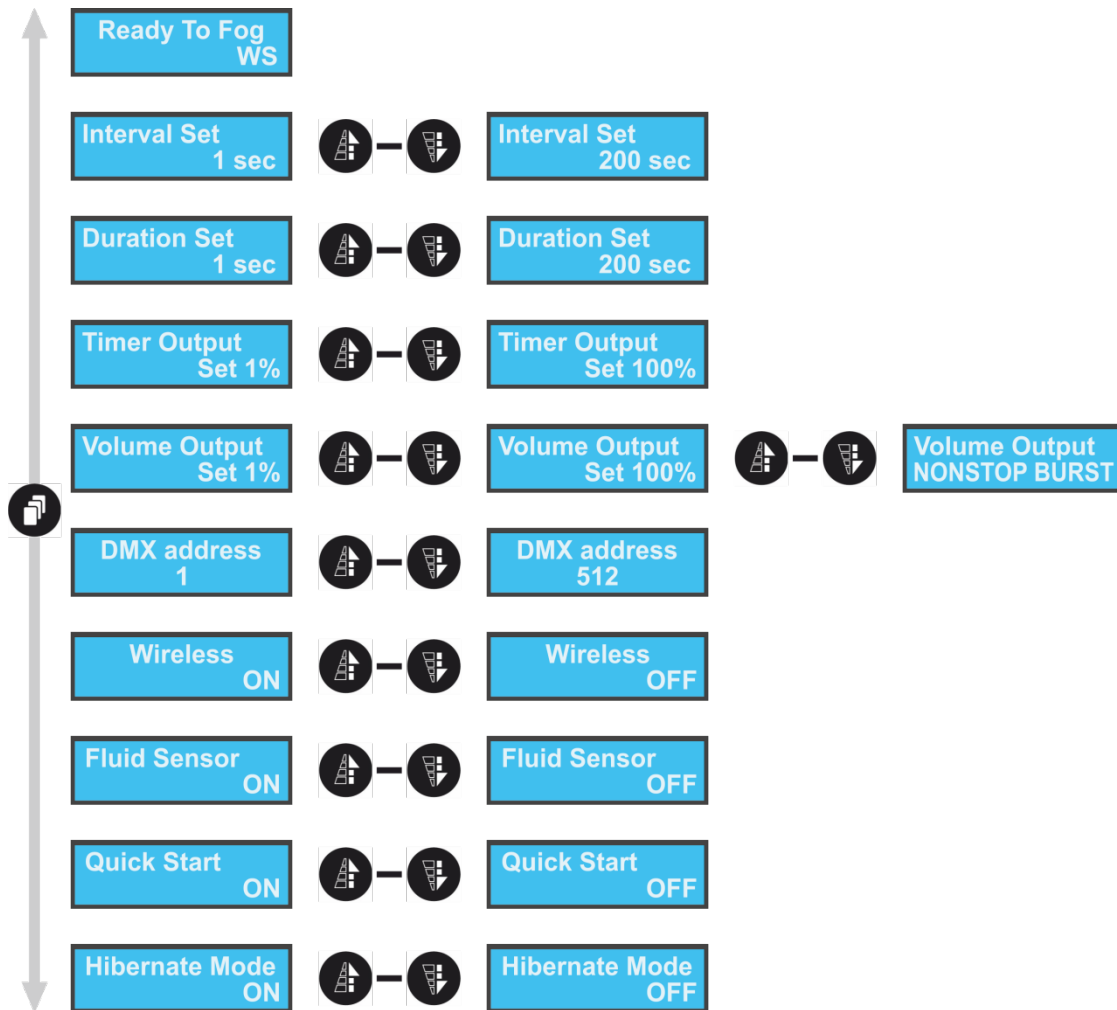Please note, when you use the controller, the unit has **1** channel.

Controlling:

Note: After switching on, the Controller will automatically detect whether DMX 512 data is received or not.
If DMX signal is not received, the problem may be:
- The XLR cable from the controller is not connected with the input of the Antari IP-1500.
- The controller is switched off or defective, the cable or connector is detective, or the signal wires are swapped in the input connector.

Menu Overview

Ready To Fog
WS

| **Interval Set** | 🔼 – 🔽 | **Interval Set** |
| **1 sec** | | **200 sec** |

| **Duration Set** | 🔼 – 🔽 | **Duration Set** |
| **1 sec** | | **200 sec** |

| **Timer Output** | 🔼 – 🔽 | **Timer Output** |
| **Set 1%** | | **Set 100%** |

| **Volume Output** | 🔼 – 🔽 | **Volume Output** | 🔼 – 🔽 | **Volume Output** |
| **Set 1%** | | **Set 100%** | | **NONSTOP BURST** |

| **DMX address** | 🔼 – 🔽 | **DMX address** |
| **1** | | **512** |

| **Wireless** | 🔼 – 🔽 | **Wireless** |
| **ON** | | **OFF** |

| **Fluid Sensor** | 🔼 – 🔽 | **Fluid Sensor** |
| **ON** | | **OFF** |

| **Quick Start** | 🔼 – 🔽 | **Quick Start** |
| **ON** | | **OFF** |

| **Hibernate Mode** | 🔼 – 🔽 | **Hibernate Mode** |
| **ON** | | **OFF** |

Start-up settings

01) Switch power to the Antari IP-1500.

02) The display will promptly show `Antari IP-1500`.

03) Then, the display will show `Wireless Setup...`.

04) Place the remote control (or multiple remote controls) near the wireless receiver on the device(s) **(09)** and press the **A** or **B** button on the remote control to activate wireless control.

05) After 15 seconds, the display will show `Wireless Setup.OK`. Now, it is not possible to activate any remote controls, anymore.

06) The display will now show `Warming Up`. The warm-up process will take up to 10 minutes, after which the device will be ready for work.

07) The display will now show `Ready To Fog WS` (normal operation mode) and/or `Empty Fluid` (low fog fluid level).

08) In the beginning, it is a normal reaction because there is still not enough fog fluid in the PU pipe and in the device itself.

09) Press the 🔽 button to force the device to suck in the fog fluid.

Main Menu Options

Ready To Fog WS		Control modes
Interval Set 1 sec — **Interval Set** 200 sec		Interval settings
Duration Set 1 sec — **Duration Set** 200 sec		Duration settings
Timer Output Set 1% — **Timer Output** Set 100%		Timer output volume settings
Volume Output Set 1% — **Volume Output** Set 100% — **Volume Output** NONSTOP BURST		Continuous output volume settings
DMX address 1 — **DMX address** 512		DMX settings
Wireless ON — **Wireless** OFF		Wireless settings
Fluid Sensor ON — **Fluid Sensor** OFF		Fluid sensor
Quick Start ON — **Quick Start** OFF		Quick start
Hibernate Mode ON — **Hibernate Mode** OFF		Hibernation mode

1. Control modes
With this menu, you can set the desired control mode.

01) Press the ⬚ button until the display shows **Ready To Fog WS**.

02) Press one of the 2 buttons to activate the desired control mode:

    ⬚   Timer mode

    ⬚   Continuous mode

03) Once you have chosen the desired control mode, the device will start fog output, using the settings below.

04) Press the ⬚ button to stop output.

2. Interval settings (Timer mode)
With this menu, you can set the intervals between particular fog outputs in Timer mode.

01) Press the ⬚ button until the display shows **Interval Set 1 sec**   —   **Interval Set 200 sec**.

02) Press the ⬚ — ⬚ buttons to increase/decrease the interval. The adjustment range is between 1-200 seconds.

3. Duration settings (Timer mode)
With this menu, you can set the duration time of a single fog output in Timer mode.

01) Press the ⬚ button until the display shows **Duration Set 1 sec**   —   **Duration Set 200 sec**.

02) Press the ⬚ — ⬚ buttons to increase/decrease the length of a single output. The adjustment range is between 1-200 seconds.

4. Timer output settings (Timer mode)
With this menu, you can set the volume of the fog output in Timer mode.

01) Press the ⧉ button until the display shows [Timer Output Set 1%] ▲–▼ [Timer Output Set 100%].

02) Press the ▲–▼ buttons to set the volume. The adjustment range is between 1-100% (from small to big output).

5. Continuous output volume settings (Continuous mode)
With this menu you can set the volume of the fog output in Continuous mode.

01) Press the ⧉ button until the display shows
[Volume Output Set 1%] ▲–▼ [Volume Output Set 100%] ▲–▼ [Volume Output NONSTOP BURST].

02) Press the ▲–▼ buttons to choose between 1-100% (from small to big output) and NONSTOP BURST (continuous output).

6. DMX settings
With this menu, you can set the starting address of the Antari IP-1500.

01) Press the ⧉ button until the display shows [DMX address 1] ▲–▼ [DMX address 512].

02) Press the ▲–▼ buttons to set the desired DMX address. The adjustment range is between 001-512.

7. Wireless settings
With this menu, you can set whether the device reacts to the remote control. Please, see page 14 for more information on the remote control operations.

01) Press the ⧉ button until the display shows [Wireless ON] ▲–▼ [Wireless OFF].

02) Press the ▲–▼ buttons to choose between ON and OFF.

8. Fluid sensor
With this menu, you can set the fluid sensor. It will react to the fog fluid level and will notify the user if the fluid level is low.

01) Press the ⧉ button until the display shows [Fluid Sensor ON] ▲–▼ [Fluid Sensor OFF].

02) Press the ▲–▼ buttons to choose between ON and OFF.

03) When this option is active, the display will show [Empty Fluid], whenever the fog fluid level is low.

9. Quick start
With this menu, you can set whether the device remains idle on start-up or if it runs in the previously active mode.

01) Press the ⧉ button until the display shows [Quick Start ON] ▲–▼ [Quick Start OFF].

02) Press the ▲–▼ buttons to choose between ON and OFF.

03) On start-up, when this option is switched ON, the device will run the mode which was active when the power supply was switched off.

04) When this option is switched OFF, the device will remain idle.

10. Hibernation mode
With this menu you can set Hibernation mode.

01) Press the ⬚ button until the display shows [Hibernate Mode ON] ⬚–⬚ [Hibernate Mode OFF].

02) Press the ⬚–⬚ buttons to choose between ON and OFF.

03) When the function is switched ON, the device will shut down if it stops receiving DMX signal. When the device receives DMX signal, it will resume operation.

Remote control

Fig. 08

⚠ **Make sure that wireless control is active.**
Please, read *Start-up settings* (page 11) and *Wireless settings* (page 13). ⚠

01) Press the **A** button to start fog output.
02) The fog output volume is determined by the volume settings.
03) Press the **B** button to stop output.

DMX Channels

1 channel

Channel 1 – Functions

0-5	Not functional
6-249	Gradual adjustment output volume (5-95%)
250-255	Maximum output (100%)

Maintenance

The Antari IP-1500 requires almost no maintenance. However, you should keep the unit clean. Disconnect the mains power supply and then wipe the cover with a damp cloth. Wipe the front panel with a damp cloth. Do not use alcohol or solvents. Do not immerse in liquid.
Keep connections clean. Disconnect electric power, and then wipe the connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

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.
After every 40 hours of continuous operation, it is recommended to run a cleaning solution composed of 80% distilled water / 20% white vinegar through the system. Repeat this 2-4 times.

When cleaning, use only a clean, lint-free soft cloth. An effective cleaning regimen is as follows:
01) While unit is unplugged and cool, clean out debris with vinegar and a pipe cleaner, making sure that the hole is free of clogs.
02) Remove all fog liquid from machine. Add cleaning solution to tank. Plug unit in.
03) Run unit in a well-ventilated area until tank is empty.
04) Refill with fog liquid.

Performance Note:
Fog machines may sputter small amounts of fog occasionally during operation and for a minute or so after being turned off.

Troubleshooting

This troubleshooting guide is meant to help solve simple problems.
Always monitor tank liquid level as you are blowing fog. Running a fog machine with no liquid can permanently damage the unit.
If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.
If the fog machine does not operate properly, refer servicing to a technician.
01) If you experience low output, mechanical pump noises other than the usual normal operating pump noise, or no output at all, unplug immediately.
02) Check liquid level, remote connection and power from the wall.
03) If all of the above appears to be O.K., plug the unit in again.
04) If fog does not come out after holding the remote button down for 30 seconds, check the hose attached to the tank to make sure there is liquid going through the hose.
05) If you are unable to determine the cause of the problem, do not simply continue pushing the remote button, as this may damage the unit.
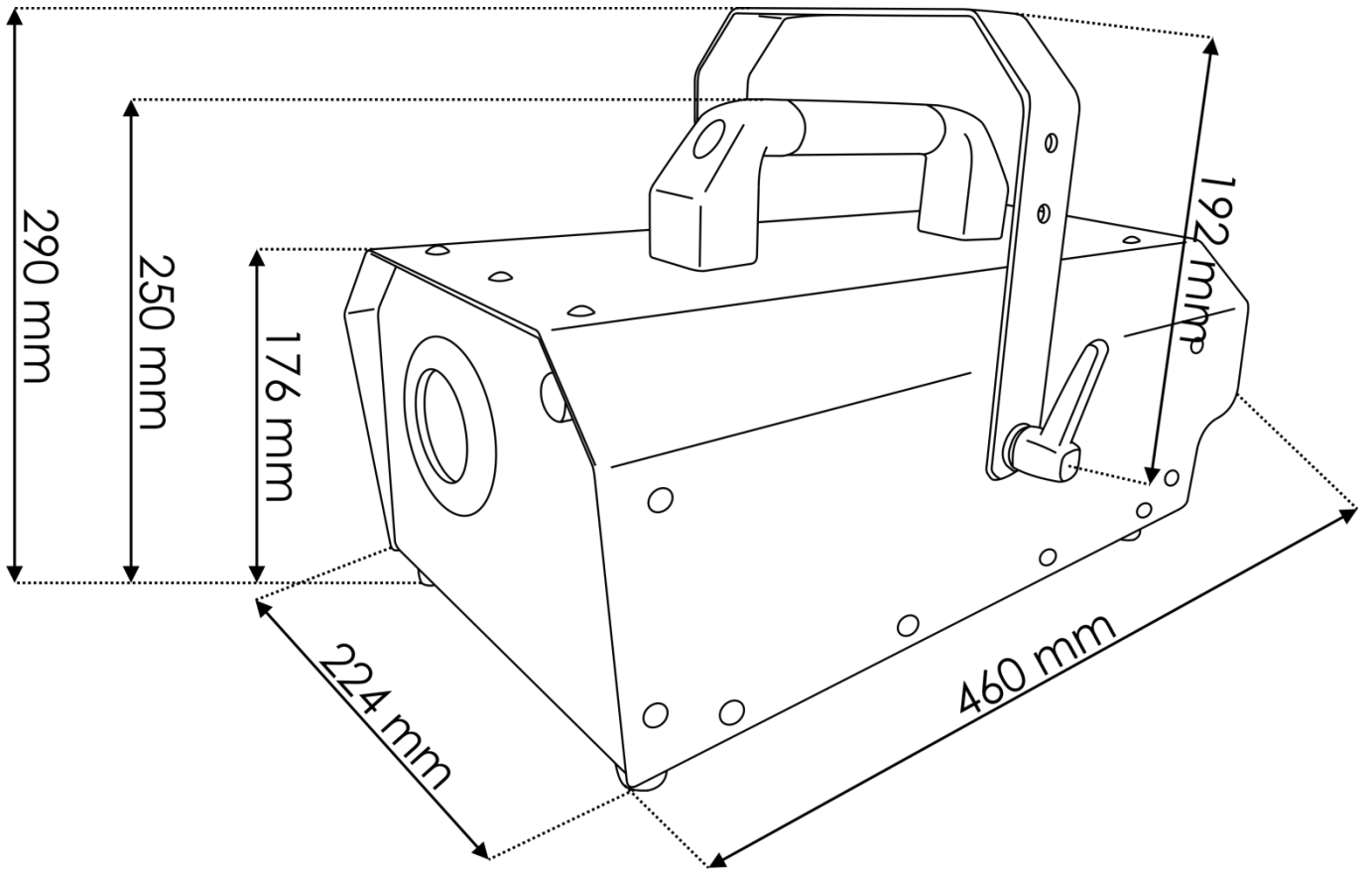06) Return the machine to your Antari dealer.

Product Specification

Model:	Antari IP-1500
Input Voltage:	100-240V, 60/50Hz
Power consumption:	1300W
Fluid consumption:	11L/min.
Output volume:	20000 cu.ft/min
Warm-up time:	10 min.
Dimensions:	460 x 224 x 290 mm (LxWxH)
Weight:	12 kg
Electro-mechanical effects	
IP Rating:	IP63
Mounting:	Mounting bracket (included)
Housing:	Die-cast aluminum, powder coat finish
Power connection:	Schuko
Onboard:	LCD display for easy setup
DMX channels:	1 channel
DMX control:	via DMX light controller
Remote control:	Wireless basic on/off remote control
Cooling:	Convection (no fans)
Max. ambient temperature t_a:	40°C
Max. housing temperature t_B:	80°C
Minimum distance:	
Minimum distance from flammable surfaces:	0,5 m
Minimum distance to lighted object:	1 m

Design and product specifications are subject to change without prior notice.

C E

Antari FOG MACHINE ®

Dimensions

290 mm

250 mm

176 mm

192 mm

224 mm

460 mm

Antari ®
FOG MACHINE