



DNG-50

Low Fog Machine

User Manual

- English

- 中文



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DNG-50

LOW FOG GENERATOR

User Manual

1. Introduction

Please read all the user manual before operating the machine, and place the manual where the user can refer to it at all time. The manual includes how to install and operate the machine under safe conditions and explain all the labels printed on the machine. If you encounter any problem, contact your local Antari dealer for assistant immediately.

2. Safety Information

 DANGER	If the danger is not avoided, it will cause death or serious injury
 WARNING	If the warning is not heeded, it can cause death or serious injury.
 CAUTION	If the precaution is not taken, it may cause minor or moderate injury.



DANGER

- Must connect the machine to the correct rated voltage or it might lead to an electrical shock or a burn and may cause serious consequences.
- Must connect the machine to a protected circuit and ensure it is properly grounded to avoid the risk of electrocution. For grounding instruction, please refer to the last page.
- Do not operate the machine with a bundled power cord, it could lead to a fire hazard.
- When operating the machine, do not point at people, animals, or fire.



WARNING

- Please operate the machine on a flat, level hard and well ventilated surface area, reserve at least 50cm space around the machine and make sure there is no flammable gas or material nearby.
- Do not disassemble, repair or modify the machine, it may cause damages, malfunction, risk of electrical shock or result in fire.
- The machine can only be operated by adults or professionals, is not intended for use by person with reduced physical sensory, mental capabilities, or lack of experience and knowledge including children.
- Do not leave the machine running unattended, make sure all powers are off when leaving.
- Children should be supervised to ensure that they do not play with the machine.
- Do not use the machine upside down or tilt it, it might cause damages or malfunction.
- Please store the fluid inside in a well ventilated area without direct sunlight and keep out of reach of children. In case of eye contact or accidentally swallow the fluid, please seek medical attention immediately.



CAUTION

- Keep the machine dry at all time. The machine is not waterproof, do not expose the machine to water, rain or moisture environment.
- Please make sure the power outlet is not damaged or loose before plug in the power cord.
- If the power cord is damaged, it must be replaced by Antari or its local dealers, otherwise the warranty will be void.
- Before transporting the machine, please make sure the fluid is drained and both water tank and reservoir are

- empty. (Recommend using original package)
- The machine is for indoor use only.
- Do not operate the machine in any area with unstable voltage.
- If you experience strange sound or malfunction, turn off the power and unplug the power cord immediately and contact your local Antari dealer for assistant.
- Do not contact any moving part.
- Only use accessories recommended or sold by Antari.
- Please make sure the power is off when not using the machine and unplug the power cord if not intend to use for a long period of time.
- To disconnect, turn all controls to the off position, then remove plug from outlet.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Unplug from outlet before servicing or cleaning.
- Do not operate the machine with a damaged cord or plug, or after the machine malfunctions or is dropped or damaged in any manner. Return machine to the nearest authorized service facility for examination, repair, or electrical or mechanical adjustment.
- To ensure the lifespan of the machine, please only use the fluid manufactured by Antari, do not use other fluid or additive, otherwise it may cause malfunction.

Before operating the machine, please read all warning labels on the machine, description as below;

Top Cover Printing

REMINDER

Please Always Drain the Water out of Machine After use or Before Moving

FLUID TANK

Use Manufacturer Designated Fog Fluid Only

WATER TANK

For Optimal Performance Use Distilled Water Only

3. Package Contents & Inspection

Immediately upon receiving the machine, carefully unpack the carton, check the content to ensure it is the correct model and all parts are included. If any part appears to be damaged or missing during transportation, please contact your local dealer and return in original package for inspection.

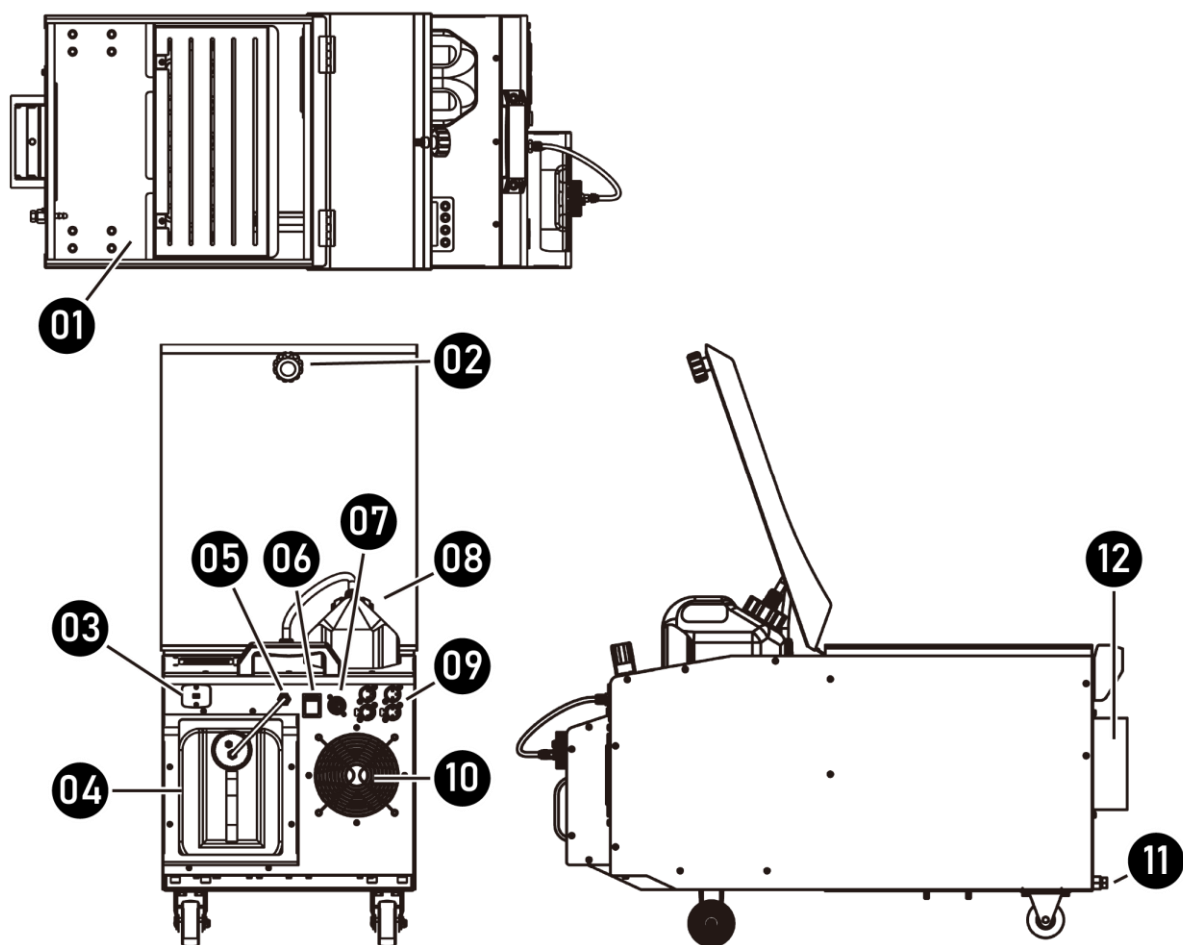
3.1 Package Contents

- 1 x DNG-50 Low Fog Machine
- 1 x 2.5 Liter Fluid Tank
- 1 x 5 Liter Water Tank
- 1 x 2M Fog Conducting Hose
- 1 x SEETRONIC Power Cable
- 1 x Quick Start Guide

3.2 Optional Accessories

Item Code	Description
WTR-110 Wireless Remote	W-2 Wireless Transmitter/ EasySwitch Wireless Receiver
ES-W-DMX Receiver	EasySwitch Wireless DMX Receiver

4. Machine Details



01. Water Compartment	07. SEETRONIC Power Connector (Power)
02. Knob Screw	08. 2.5L Fluid Tank
03. Expansion Socket	09. XLR 3-Pin/5-Pin Connector (DMX)
04. 5L Water Tank	10. Fan
05. Water Inlet	11. Water Outlet
06. Power Switch	12. Nozzle

5. Technical Label Information

Please read the technical label information on the back of the machine before operating it.

1 2 3 4 5 XXXX INPUT VOLTAGE: FREQUENCY: RATED POWER: BREAKER/FUSE: XXXX Vac 50/60Hz XXXW XXA 250V MADE IN TAIWAN XXXXXXMMYYXXXXX 6 7 6 7 Scan It for User Manual	
1. Model Name	5. Breaker/Fuse
2. Input Voltage	6. QR CODE for User Manual
3. Frequency	7. Serial No.
4. Rated Power	

6. Fog Fluid



CAUTION

Always turn off the power before filling the fluid tank. Do not add flammable liquid to the fluid tank. If fluid gets inside the machine, please contact your local Antari dealer for assistance.

- Only the fog fluid manufactured by Antari can be used, do not mix or dilute the fog fluid. Due to improper storage or using other fluid might cause malfunction.
- The machine is tested and calibrated with the specific fog fluid to get the best performance.
- Please empty the fluid in the tank before switching to another fluid to avoid mixing.
- The warranty on your fog machine will be void if you use fog fluid not manufactured by Antari.

7. Setting and Manual Operation



WARNING

Machine falling off might cause serious injury, please make sure it is secure and firm on the overhead.

- Step 1.** Place the machine on a flat, level hard and well ventilated surface area and reserve at least 50cm open space around the machine, and make sure there is no flammable gas or material nearby;
- Step 2.** Fill the fluid tank with Antari approved fog fluid, and make sure the tube is not twisted;
- Step 3.** Then fill the 5L water tank with distilled water, and make sure the tube is not twisted;
- Step 4.** Then fill the machine's water compartment with approximately 8 liters of distilled water (Please see graph below), then close the lid and tighten the knob securely;
- Step 5.** Connect the machine to the power outlet. Please read the technical label on the back of the machine and make sure the power outlet is the correspond to the rated voltage for the machine;
- Step 6.** Turn on the machine, warm up process takes approximately 2 minutes; when the machine is ready for operation, the LCD display will show "Ready To Fog". Now the machine is ready for operation;
- Step 7.** Please refer to "8. Control Setting" to operate the machine
- Step 8.** To turn off the machine, please make sure the machine is not operating then turn off the power. If you will not use the machine a long period of time, please remove the power cord.

Water Level (Inside Water Compartment)

CAUTION

**BEFORE USE, FILL DISTILL WATER UP TO THIS RED LINE.
DO NOT EXCEED.**



8. Control Settings

DNG-50 Low Fog Machine can be operated in the following modes. The machine can only accept 1 type of signal at a time.

- Manual
- Timer
- DMX512
- Wireless
- W-DMX

8.1 Control Panel Description



DNG-50 Low Fog Machine can be operated with the digital control interface.

Button	Operating Method	Action
	Press	Enter menu
	Press	Up/Increase value (MENU)
	Press	Down/Decrease value (MENU)
	Press	(Standby Mode) Active TIMER mode according to the set time
	Press	(Standby Mode) Active VOLUME mode according to the set volume
	Press	1. Leave setting menu 2. Deactive “TIMER” or “VOLUME” mode 3. Confirm Selection

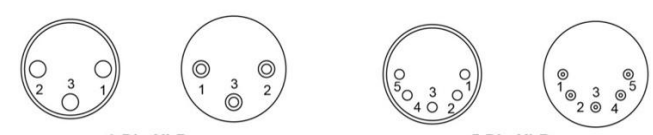
8.2 Menu Options Description

Options	Description
Timer Output100%	Set Output Volume from 30 - 100% (Timer Mode)
Timer Interval xxx Sec	Set Interval Time from 15 - 999 sec
Timer Duration xxx Sec	Set Duration Time from 15 - 999 sec
Volume Output 100%	Set Output Volume from 30 - 100% (Volume Mode)
DMX512 Add:xxx	Set DMX Address from 001-512
Wireless Function	On / Off
W-DMX	On / Off
Language	EN / 中文
BackLight	On / Off
Keypad Sound	On / Off
Run Last Setting	On / Off
Factory Reset	On / Off

9. DMX Connection

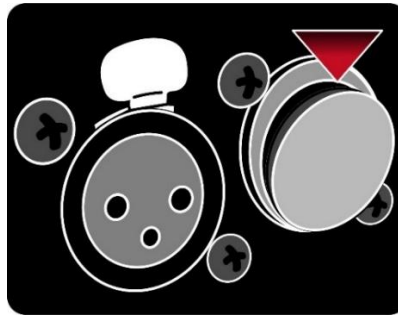
9.1 DMX Connector Pin Assignment

The machine has a XLR 3-Pin/5-Pin for DMX connection. The diagram below indicates pin assignment information.



Pin	Function
1	Ground
2	Data-
3	Data+
4	N/A
5	N/A

**** There is a protection cap on DMX IN, please remove it with your finger before operation.**



9.2 DMX Channel Function

1 Channel Mode		DMX Value Range	Function
Channel 1	Fog Output Level	0 – 75	Off
		76 - 255	30 – 100%

10. RDM Function

DNG-50 Low Fog Machine is RDM enabled, allowing control system to configure, monitor and manage. See below table for supported RDM categories and parameters.

10.1 RDM Categories/Parameter ID Defines

GET Allowed	SET Allowed	Category	RDM Parameter ID's	Value	Required
		Network Management	DISC_UNIQUE_BRANCH	0x0001	O
			DISC_MUTE	0x0002	O
			DISC_UN_MUTE	0x0003	O
O		RDM Information	SUPPORTED_PARAMETERS	0x0050	O
O		Product Information	DEVICE_INFO	0x0060	O
O			PRODUCT_DETAIL_ID_LIST	0x0070	
O			DEVICE_MODEL_DESCRIPTION	0x0080	
O			MANUFACTURER_LABEL	0x0081	
O	O		DEVICE_LABEL	0x0082	
O			LANGUAGE_CAPABILITIES	0x00A0	
O	O		LANGUAGE	0x00B0	
O			SOFTWARE_VERSION_LABEL	0x00C0	O
O	O	DMX512 Setup	DMX_PERSONALITY	0x00E0	
O			DMX_PERSONALITY_DESCRIPTION	0x00E1	
O	O		DMX_START_ADDRESS	0x00F0	O
O			SLOT_INFO	0x0120	
O			SLOT_DESCRIPTION	0x0121	
O			DEFAULT_SLOT_VALUE	0x0122	
O		Sensors	SENSOR_DEFINITION	0x0200	

GET Allowed	SET Allowed	Category	RDM Parameter ID's	Value	Required
O	O		SENSOR_VALUE	0x0201	
O		Control	DEVICE_HOURS	0x0400	
O	O		IDENTIFY_DEVICE	0x1000	O
O	O		POWER_STATE	0x1010	

11. WTR-110 Wireless Remote (Optional)

WTR-110 Wireless Remote is an optional accessory for DNG-50 Low Fog Machine, it included a W-2 wireless transmitter and an EasySwitch Wireless Receiver. If you already purchased the wireless model, it's ready to use. If you purchase afterwards, please follow the instruction below. If you encounter any problem, please contact your local Antari dealer for assistant.

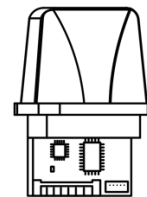
11.1 W-2 Wireless Transmitter & EasySwitch Wireless Receiver

- Battery : 27A 12V
- Effective Range : The effective range is approximately 50 meter, depends on actual condition, it may vary.
- If effective range is significantly shorter, please change battery.
- W-2 wireless transmitter has 4 buttons, each function as follow:



W-2 Wireless Transmitter

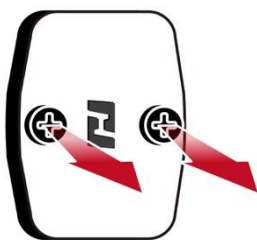
Button	Function
[A]	Start Fan
[B]	Stop Fan
[C]	Increase Fan Output
[D]	Decrease Fan Output



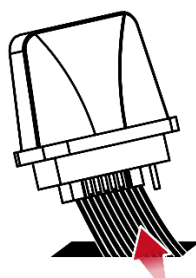
EasySwitch Wireless Receiver

11.2 EasySwitch Wireless Receiver Installation

Please follow the instructions below to install the receiver.



Graph 1



Graph 2



Graph 3

1. Please see graph 1, remove the screw from the pointed place and pull the cover;
2. You will see a white cable like graph 2, pull it out and connect to the EasySwitch wireless receiver;
3. Screw it back to the machine show in graph 3 and follow the instruction on 11.3 for pairing.

11.3 Pair & Unpair

Each receiver can pair up to 5 transmitters, please follow the steps below to pair or unpair the transmitter;

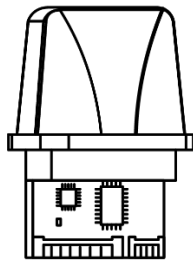
- Step 1.** Press [MENU] to enter menu, select [Wireless Function], press [UP] to choose [On] to turn on Wireless Function;
- Step 2.** Press [MENU] to enter menu, select [Wireless], press [UP] to choose [Pair] and press [STOP];
- Step 3.** When screen show Press [A], then press [A] on the W-2 wireless transmitter to pair;
- Step 4.** When screen show [Pair Completed], then it's successful;
- Step 5.** If you want to pair multiple transmitters, repeat Step 1 – 4;
- Step 6.** To unpair, press [MENU] to enter menu, select [Wireless], press [UP] to choose [Unpair] and press [STOP];
- Step 7.** When screen show [Unpair Completed], then it's successful

Note: Wireless function will ONLY appear in the menu when you connect the EasySwitch Wireless Receiver to the machine and screen will show [W]

12. EasySwitch W-DMX Receiver (Optional)

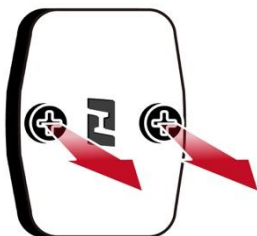
EasySwitch W-DMX Receiver is an optional accessory for DNG-50 Low Fog Machine, it included a EasySwitch W-DMX receiver. If you already purchased the W-DMX model, it's ready to use. If you purchase afterwards, please follow the instruction below. If you encounter any problem, please contact your local Antari dealer for assistant.

12.1 EasySwitch W-DMX Receiver

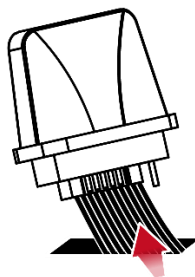


12.2 EasySwitch W-DMX Receiver Installation

Please follow the instructions below to install the receiver.



Graph 1



Graph 2



Graph 3

1. Please see graph 1, remove the screw from the pointed place and pull the cover;
2. You will see a white cable like graph 2, pull it out and connect to the EasySwitch wireless receiver;
3. Screw it back to the machine like graph 3 and follow the instruction on 12.3 for pairing.

12.3 Pair & Unpair

Please follow the steps below to link or unlink W-DMX signal;

- Step 1.** Press [MENU] to enter the menu, select [W-DMX] and Press [UP] to choose [On] to turn on W-DMX function, and you can see status on the screen
- Step 2.** It will automatically search for signal and pair;
- Step 3.** To unpair, press [MENU] to enter the menu, select [W-DMX Unpair] and press [UP] to choose [Yes], then press [STOP] to proceed;
- Step 4.** When show [Unpair Completed], it's successful

Note: W-DMX function will ONLY appear in the menu when you connect the EasySwitch W-DMX Receiver to the machine and screen will show [W]

12.4 Status of W-DMX

Signal on LCD Display	Wireless DMX Status
○	Transmitter not assigned
◐	Transmitter assigned, no DMX signal
◑	Transmitter link lost or linking to transmitter
●	Transmitter assigned, DMX signal received

13. Service and Maintenance

 DANGER	Disconnect the power cord before starting maintenance operation!
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- Always keep the machine clean and dry.
- Can use an air compressor, a vacuum or a soft brush to remove the dust on the machine.
- Can use a slightly damp cloth to clean the casing.
- Before storage or after use, ensure all liquids are completely drained and the unit is kept dry.
- It is recommended to run the machine at least once a month in order to maintain its best performance and output condition.
- Excessive dust and build up liquid residue will reduce the performance and cause overheat.

14. Technical Specifications

	DNG-50
Input Voltage	US Model : AC 100 - 120V, 50 / 60 Hz 10A EU Model : AC 220 - 240V, 50 / 60 Hz 5.0A
Rated Power	1200W
Warm-Up Time	2 Minutes (approx)
Fluid Consumption	16 ml/min (100% Output)
Fluid Tank Capacity	2.4 Liters (0.63 Gallon)
Compatible Fluid	Antari FLJ Extremely Thin & Extremely Fast Dissipating Fog Fluid Antari FLK High Density Fast Dissipating Fog Fluid Antari FLL Low Fog Effects Fluid
Operating Time	2.5 hrs (100% Output)
Ambient Temp. Range	0 °C - 40 °C (32 °F - 104 °F)

	DNG-50
Output	50 m ³ / min
Control Methods	Manual Timer DMX512 Wireless (Optional) Wireless DMX (Optional)
DMX Channels	1 Channel
Interface	SEETRONIC Connector (Power) XLR 3-Pin & 5-Pin Connector (DMX)
Included Accessories	1.5 Meter Fog Conducting Hose
Optional Accessories	WTR-110 Wireless Module ES-W-DMX Wireless DMX FTA-13 Low Fog Diverter
Dimension	L865 W355 H517 mm L34.06 W13.98 H20.36 inch
Weight	25.4 kg 56.00 lbs

15. Warranty Disclaimer

We guarantee the merchandise manufactured by us to be free from defect in material and workmanship for a period of one year. Our obligation and liability under this warranty shall be restricted to repair or replacement at our factory or local authorized dealer. We assume no liability of the products that are improperly used or used for any purpose other than that for which they are specially designed. This warranty shall not apply to any merchandise which has been repaired, altered or assembled outside our factory in any way so as in our judgment to affect its performance, nor which has been subjected to misuse, negligence, or accident nor to any merchandise operated contrary to our printed instructions. We will not allow or be liable of any loss or any damages of any kind in connection with the use, sale, or repair of any merchandise purchased from us.

16. Machine Dimension

