

# Cyclone Vertical LED Fogger (CF-7.0)

CF-7.0



Save this instruction properly  
Every information is subject to change without prior notice

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**If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.**

Instructional icons

	Read the manual
	Indoor use only
	This symbol indicating separate collection for electrical and electronic equipment
	<b>Warning:</b> situations that could cause injury to yourself or others
	<b>Caution:</b> situations that could cause damage to your machine or other equipment
	<b>Note:</b> notes, usage tips, or additional information

Thank you for selecting our Cyclone Vertical LED Fogger machine, you already own the high-tech, professional DMX Fogs! Better read the manual thoroughly before operation, follow instruction will help you have a smooth handling with Cyclone Vertical LED fogger to achieve the most satisfactory fog effect, it will also assist unit to further prolong life time as a whole.

## **Warning!**



*Like all electronic products, Cyclone Vertical LED Fogger must be used with safety precautions in mind.*



*Fill enough fog fluid before plugging in, empty fluid tank when not in use or moving.*

- Products for indoor use only. Keep away from liquids. Never operate in rain or in damp conditions.
- Use only appropriate, grounded electric power supply for your unit. See your product specification label for appropriate power supply. This appliance must be earthed.
- Disconnect from electric mains power supply when not in use, when filling the fog fluid tank, or when changing a fuse. Keep unit dry. If moisture or liquids enter the fog machine case, immediately disconnect power supply. Contact a service technician to determine safety for use.

- Keep machine in flat position, never put it in tilted place.
- Before moving fog machine, always drain fog fluid into the tank and tighten the tank cap securely to avoid spilling.
- Without user-serviceable parts in the package, please contact your local agent or qualified technician for servicing.
- Without changeable structure by non-qualified user, please do not open the up cover or have any change at will, otherwise, it may cause accident!
- Fog machine is for adult use. Keep out of reach of children. Never leave the unit running unattended.
- Fog machine nozzle gets hot over 200 degrees (centigrade) during use. Don't touch! Maintain a safe distance over 100CM. Never aim the nozzle directly at people.
- Keep case closed while operating. Put fog machine in drafty place. Do not insert objects into air vents. Allow 20cm space or above around the machine for proper ventilation.
- Keep fog machine away from flames and flammable items. Never aim the nozzle at open flames or sparks. Use only high quality water-based fog fluid. Never put flammable substances into the tank.
- Machine must cool down before cleaning, servicing or storing.
- Never put any flammable material (lipid, gas, perfume etc.) into the tank, read the user manual thoroughly before operation.



- In the warm-up is completed, the green LED light up period, if the receiver receives a valid signal emitted by the transmitter, the green LED off. If the transmitter stop signal, then restore the green LED lights while stopped puffing smoke.
- The fog machine is off emission for about 9 minutes during warm-up and re-heating cycles (about 80 seconds), and turns on when the temperature reached again.

#### **\*Important Remark\***

When the green LED on the controller lights up, it does not mean that the machine has got completely heated, but just means that the machine reaches an enough temperature for fogging.

Check the red dot in the middle of CH.A (or others like CH.b etc.) on the LED display to know whether the machine has completed heating up or not.

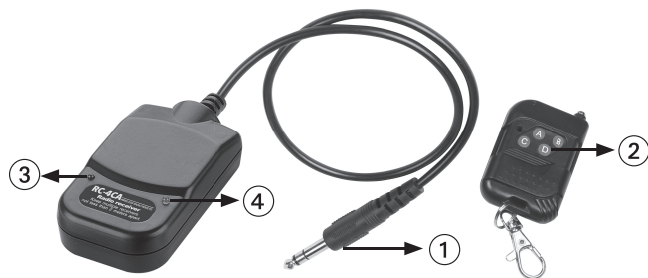
If the red dot is flashing, heating is not completed yet, and duration of fogging is only 1-3 seconds. If the red dot is lighted and does not flash, heating is completed, and duration of each fogging can reach 8-9 seconds.

## **Specification of Compatible Controllers**

Model	RC-4CA
Cable Length	Wireless
Effective Distance (open space, no barrier)	Up to 30 m
Connector	1/4" stereo jack
Function	Control 4 color macros
Dimension (LxWxH)	Receiver 91×58×29mm with 600mm cable (stereo jack included) Transmitter 63×39×14mm
Weight	Receiver 85g / Transmitter 31g



## Appendix – A RC-4CA



- |                     |                    |
|---------------------|--------------------|
| 1. 1/4" stereo jack | 2. Button          |
| 3. Green LED (fog)  | 4. Red LED (power) |

### **Wireless Remote Control Operation:**

The Cyclone Vertical LED Fogger is designed with wireless remote controller. Workable remote distance possibly extends to 30 meters. Detail operation as follows;

#### **A. Four-channel wireless remote control transmitter:**

Key A, B, C, D respectively "CHA, CHb, CHc, CHd". Each channel can be individually set its Color Marco (see "SYSTEM MENU" instruction) by menu of the machine. Send smoke signals when the button is pressed, release the button to stop smoke.

#### **B. Receiver:**

- Red LED: Power indication. Once the fog machine is plugged, the red LED on this receiver of remote controller will light up. Unplug the power, the red LED off.
- Green LED: Status indication.
  1. Warm-up, the green LED goes out.
  2. Warm-up is completed, the green LED light up.

- Better use our high quality water-based fog fluid, random use with other fog fluid may jam the pipe, or even erode the components inside.
- Keep sufficient fog fluid in tank. Operating the unit without sufficient fog fluid, the pump will stop working.
- If any abnormal running occurs, stop it immediately, empty the fluid, and bring the done up unit (recommend original box) to your agent or dealer for servicing. Make sure all fluid is empty from the tank before moving or shipping.
- Never drink fog fluid. If ingested, call a doctor immediately. If fluid contacts eyes or skin, rinse skin thoroughly with water.
- Read user manual instructions thoroughly before operating. Follow the instruction. Never remove warning or informative labels from the unit.



### **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 your local dealer.



## Particular Warning :

Please install the product correctly according to the instruction of the user manual. To avoid any accident, it is not allowed to install the product with any way not instructed on the user manual. If accident happens because users do not install the product according to the instruction of the user manual, the manufacturer will not take any responsibility.



## Please note:

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

## Important

***The wires in this mains lead are colored in accordance with the following code.***

### EU

Green and Yellow – Earthed (E)

Blue – Neutral (N)

Brown – Live (L)

Warning: This appliance must be earthed.



### USA

Green and Yellow – Earthed (E)

White – Neutral (N)

Black – Live (L)

Warning: This appliance must be earthed.

- PC board should be kept from being dirtied with oil. In case this happened, dismantle carefully the PCB, and have it brushed clean both sides with dilute alcohol. Leave it dry itself, then install it back. Make sure all wires are well connected.
- Clean the metal cover with dry cloth.

## Product Specifications

Name	Cyclone Vertical LED Fogger
Item No.	CF-7.0
Heater Power	650W
Consumption	680W
FUSE(120V)	T10A/250V (IEC)
FUSE(230V,240V)	T5A/250V (IEC)
Warm Up time(min)	9
Fog Output (cu.ft/min)	20000
Fluid Consumption (ml/min)	120ml/min
Display	LED
Tank (liters)	2.5L
LED	3x3W RED LED 3x3W GREEN LED 3x3W BLUE LED 3x3W Amber LED
DMX512 CH.	1CH, 2CH, 3CH, 5CH or 7CH
Handle	YES
Dimensions/mm (LxWxH W/Handle)	397x302x191
Weight (kg)	7.1
Voltage	120V,230V,240V 50/60Hz
Matching Controller (Included)	RC-4CA

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

## Troubleshooting

This troubleshooting guide is meant to help solve simple problems. 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 problem persists, refer servicing to a qualified technician.

### **Power Connected but No Fog Is Emitted**

1. Check the power supply. Plug the unit into grounded electric power supply socket with proper voltage.
2. Check your controller if in correct connection, test the battery if power enough for wireless controller.
3. Check your DMX address setting.
4. Disconnect fog machine from electric power supply. Replace fuse with one of the same type.

### **Other Abnormal Situations that Could Make Heater & Pump Stop Working**

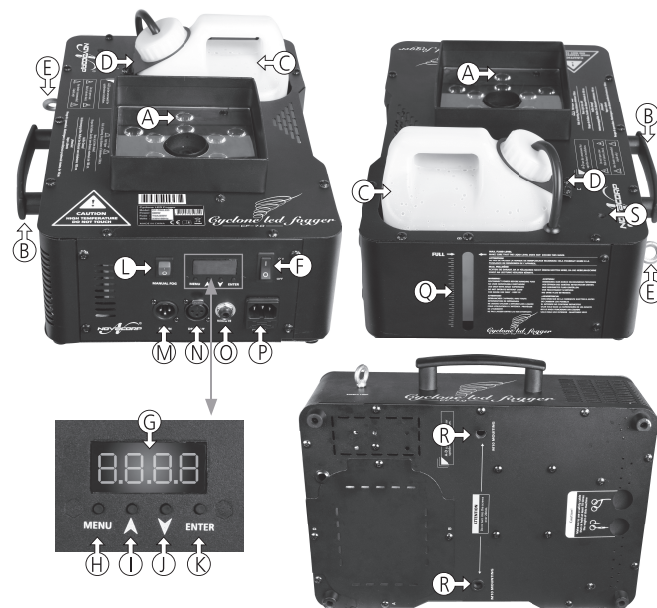
- Flashing and showing "Erro" means heater is too hot or thermos sensor is cut.

## Maintenance

Before doing maintenance, please make sure that the power is cut, the power cord is unplugged, and the machine itself has cooled down. The maintenance must be done by qualified person.

- The fog liquid is not allowed to get dirty. Be sure to always clean or replace the caps on the fog liquid vessel and tight the cover of the fog machine liquid tank immediately after filling.
- Periodically check the connections among the oil tube, the pump and the heater to see if there's oil leaking. If positive, lock tight the connections carefully with proper tool.

**Figure 1 Cyclone Vertical LED Fogger Functions**



- |                    |   |
|--------------------|---|
| A. 12 LEDs         | K. Enter                                |
| B. Handle          | L. Manual Fog                           |
| C. Fog Fluid Tank  | M. DMX 3 pin XLR Input                  |
| D. Tank Fixed Ring | N. DMX 3 pin XLR Output                 |
| E. Safety Loop     | O. Control Socket Connection            |
| F. Power Switch    | P. Electric Power Cord with Fuse Holder |
| G. LED display     | Q. Visible Fog Fluid Level Indicator    |
| H. Menu            | R. M10*P1.5 C Clamp Installation        |
| I. Up              | S. Safety Loop hole                     |
| J. Down            |   |

## Description

### Cyclone Vertical LED Fogger (CF-7.0)

- Built-in function of led lighting control allows easy control led patterns through by LED display. Like flames, burst etc.
- When hanging CF-7.0 upside down, just loosen the screws of the tank fixed ring and back board to change the position of the tank.
- Visible fog fluid level indicator on rear.
- DMX on board, 5 DMX modes for choice; 1CH, 2CH, 3CH, 5CH & 7CH, operate by any additional DMX controller.
- Manual fogging can be operated directly from the back panel of the machine.
- Operate by wireless controller (RC-4CA). Simple and humanized design makes CF-7.0 easier for use.
- Aluminum die-cast design functioned with high-effective heating module prevents clogging. Unique design that can be earthed directly without affecting normal working of the thermo system and DMX control circuit. There won't be danger of accidental human body's electric shock.
- High output fog machine, approx. 20,000 cu.ft/min output.
- Electronic Thermo Sensing (ETS) – electronic heater stay hot at all times between fog blasts.
- Direct thermal protection.

## Getting Ready

All products are thoroughly tested at the factory and shipped in perfect condition. If damage has occurred during shipping, or if components are missing, please contact your local dealer immediately.

### Your package should include:

- 1 One Cyclone Vertical LED Fogger
- 2 One Wireless controller
- 3 One product user manual

93-96	Red = 158 Green =255 Blue = 144 W/A = 144	221-224	Red =165 Green =198 Blue =247 W/A =0
97-100	Red = 255 Green =251 Blue = 153 W/A = 153	225-228	Red =209 Green =219 Blue =182 W/A =0
101-104	Red = 255 Green =175 Blue = 147 W/A = 147	229-232	Red =42 Green =165 Blue =85 W/A =0
105-108	Red = 255 Green =138 Blue = 186 W/A = 138	233-236	Red = 0 Green =46 Blue = 35 W/A = 0
109-112	Red = 255 Green =147 Blue = 251 W/A = 147	237-240	Red = 255 Green =0 Blue = 0 W/A = 0
113-116	Red = 151 Green =138 Blue = 255 W/A = 138	241-244	Red = 0 Green =255 Blue = 0 W/A = 0
117-120	Red = 151 Green =138 Blue = 255 W/A = 138	245-248	Red = 0 Green =0 Blue =255 W/A =0
121-124	Red = 138 Green =169 Blue = 255 W/A = 138	249-252	Red =0 Green =0 Blue =0 W/A = 255
125-128	Red = 17 Green =0 Blue = 145 W/A = 42	253-255	Red = 255 Green =255 Blue = 255 W/A = 255

57-60	Red = 255 Green =96 Blue = 236 W/A = 96	185-188	Red = 0 Green =142 Blue =208 W/A =0
61-64	Red = 238 Green =93 Blue = 255 W/A = 93	189-192	Red =52 Green =148 Blue =209 W/A =0
65-68	Red = 196 Green =87 Blue = 255 W/A = 87	193-196	Red =1 Green =134 Blue =201 W/A =0
69-72	Red = 150 Green =90 Blue = 255 W/A = 90	197-200	Red =0 Green =145 Blue =212 W/A =0
73-76	Red = 100 Green =77 Blue = 255 W/A = 77	201-204	Red =0 Green =121 Blue =192 W/A =0
77-80	Red = 77 Green =100 Blue = 255 W/A = 77	205-208	Red =0 Green =129 Blue =184 W/A =0
81-84	Red = 67 Green =148 Blue = 255 W/A = 67	209-212	Red =0 Green =83 Blue = 115 W/A =0
85-88	Red = 77 Green =195 Blue = 255 W/A = 77	213-216	Red =8 Green =107 Blue =222 W/A =0
89-92	Red = 77 Green =234 Blue = 255 W/A = 77	217-220	Red =107 Green =156 Blue =231 W/A =0

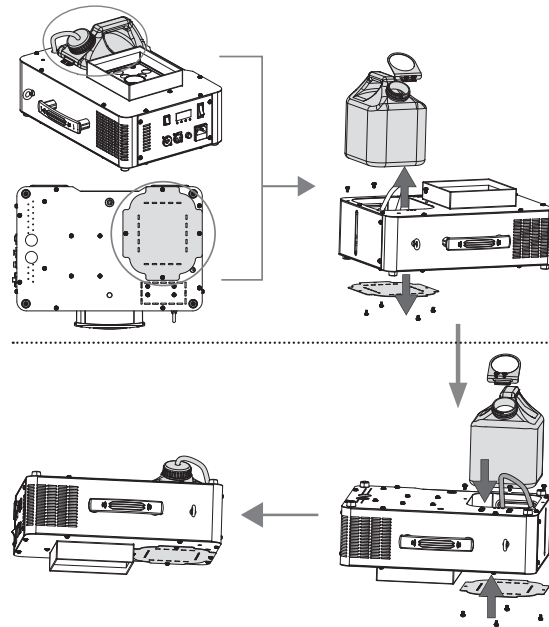
## Mouting

**Particular Warning:** Please install the product correctly according to the instruction of the user manual. To avoid any accident, it is not allowed to install the product with any way not instructed on the user manual. If accident happens because users do not install the product according to the instruction of the user manual, the manufacturer will not take any responsibility.

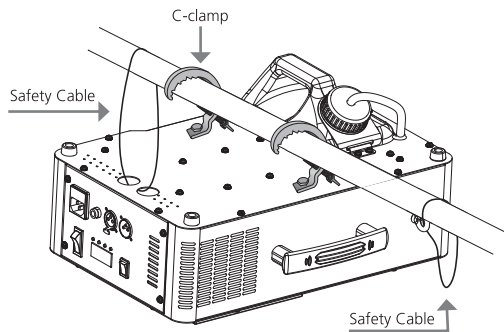
Cyclone Vertical LED Fogger (CF-7.0) can only be set right way, upside down way, and sideways.

### 1. Upside down way:

Loosen the two screws of the tank fixed ring, replace the tank down to the bottom, then put the tank fix ring to the tank again, and tighten the screws.

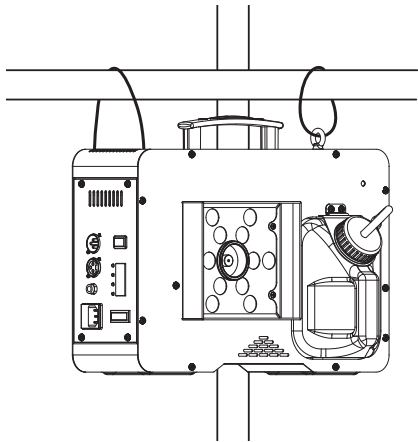


Fasten the CF-7.0 onto firm trussing (Use a 15-kg rated or stronger C-clamp bolted onto bottom of CF-7.0, enhancing safety necessarily with safety cables). Leave at least one meter at all sides for air circulation.



## 2. Side way:

Please set CF-7.0 as photo's position. Fasten the CF-7.0 onto firm trussing (Use a 15-kg rated or stronger C-clamp bolted onto bottom of CF-7.0, enhancing safety necessarily with safety cables). Leave at least one meter at all sides for air circulation.



21-24	Red = 223 Green =255 Blue = 83 W/A = 83	149-152	Red = 176 Green =17 Blue = 0 W/A = 0
25-28	Red = 255 Green =243 Blue = 77 W/A = 77	153-156	Red = 96 Green =0 Blue = 11 W/A = 0
29-32	Red = 255 Green =200 Blue = 74 W/A = 74	157-160	Red = 234 Green =139 Blue = 171 W/A = 0
33-36	Red = 255 Green =166 Blue = 77 W/A = 77	161-164	Red = 224 Green =5 Blue = 97 W/A = 0
37-40	Red = 255 Green =125 Blue = 74 W/A = 74	165-168	Red = 175 Green =77 Blue = 173 W/A = 0
41-44	Red = 255 Green =97 Blue = 77 W/A = 74	169-172	Red = 119 Green =130 Blue = 199 W/A = 0
45-48	Red = 255 Green =71 Blue = 77 W/A = 71	173-176	Red = 147 Green =164 Blue = 212 W/A = 0
49-52	Red = 255 Green =83 Blue = 134 W/A = 83	177-180	Red = 88 Green =2 Blue = 163 W/A = 0
53-56	Red = 255 Green =93 Blue = 182 W/A = 93	181-184	Red = 0 Green =38 Blue =86 W/A =0

## 7CH MODE.....

CH1	CH2	CH3	CH4	CH5	CH6	CH7
<b>FOG</b>	<b>RED</b>	<b>GREEN</b>	<b>BLUE</b>	<b>AMBER</b>	<b>STROBE</b>	<b>MASTER DIMMER</b>
32-255 MAX FOG	1-255 MIN to MAX	1-255 MIN to MAX	1-255 MIN to MAX	1-255 MIN to MAX	160-255 Random Strobe (Slow>Fast)	1-255 MIN to MAX
16-31 = Color Preview, Fog off (5 seconds, repeat every 15 seconds)	0 OFF	0 OFF	0 OFF	0 OFF	96-159 Pulse-Effect in sequence	0 OFF
0-15 OFF					32-95 Strobe Effect (Slow > Fast)	
					0-31 Strobe Off	

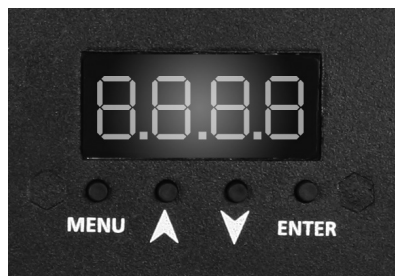
**Figure 3 Color Macro List**

Value	Color	Value	Color
0	OFF		
1-4	Red = 80 Green =255 Blue = 234 W/A = 80	129-132	Red = 255 Green =206 Blue = 143 W/A = 0
5-8	Red = 80 Green =255 Blue = 164 W/A = 80	133-136	Red = 254 Green =177 Blue = 153 W/A = 0
9-12	Red = 77 Green =255 Blue = 112 W/A = 77	137-140	Red = 254 Green =192 Blue = 138 W/A = 0
13-16	Red = 117 Green =255 Blue = 83 W/A = 83	141-144	Red = 254 Green =165 Blue = 98 W/A = 0
17-20	Red = 160 Green =255 Blue = 77 W/A = 77	145-148	Red = 254 Green =121 Blue = 0 W/A = 0

## Set Up

1. Open the shipping carton and carefully remove the unit from the shipping carton.
2. Be sure to remove packing material from around the fog machine, especially near the nozzle.
3. Set the fog machine on a dry, flat surface.
4. Place the feeder tube with filter deep inside the full fog fluid tank (C of figure1). Use only high quality, water-based fog fluid.
5. Firmly attach the remote control mechanism to socket (O of figure1) on the back of the unit. Or use DMX control setting (H of figure1) on the back of the unit.
6. Plug mains power cord from the fog machine into appropriate power supply socket. Wait about 9 minutes for heating element to heat up.
7. Refer to your controller manual for operation details. (Appendix A )
8. If fog is emitted continuously for a long time, the heating element temperature may drop, shutting off fog production. If so, please do not activate for emission. Wait briefly. When the heating element temperature rises, fog emissions can be resumed.

## Functions of the buttons



**MENU:** Button for DMX mode selection, color macro setting for each channel of remote controller, and DMX address setting.

**ENTER:** Button for the first layer and the second layer of menu.

**UP:** Button for increasing numerical value

**DOWN:** Button for decreasing numerical value  
Press “**UP**” or “**Down**” 15 seconds can change value continuously and fast.

## Figure 2 DMX Chart

### 1CH MODE.....

CH1
<b>FOG &amp; RANDOM COLOR CHANGE</b>
32-255 = MAX FOG, Random Color Chang
16-31 = Color Preview, Fog off (5 seconds, repeat every 15 seconds)
0-15 = OFF

### 2CH MODE.....

CH1	CH2
<b>FOG</b>	<b>COLOR MACROS</b>
32-255 = MAX FOG	Color Macro 1~64 (please see figure 3 - color macro list)
16-31 = Color Preview, Fog off (5 seconds, repeat every 15 seconds)	
0-15= OFF	

### 3CH MODE.....


CH1	CH2	CH3
<b>FOG</b>	<b>COLOR MACROS</b>	<b>STROBE</b>
32-255 = MAX FOG	Color Macro 1~64 (please see figure 3 - color macro list)	160-255 Random Strobe (Slow>Fast)
16-31 = Color Preview, Fog off (5 seconds, repeat every 15 seconds)		96-159 Pulse-Effect in sequence
0-15= OFF		32-95 Strobe Effect (Slow > Fast)
		0-31 Strobe Off

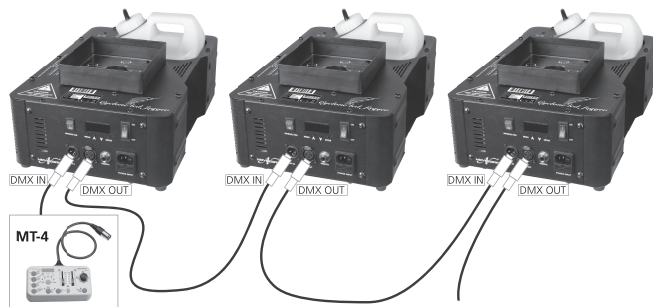
### 5CH MODE.....

CH1	CH2	CH3	CH4	CH5
<b>FOG</b>	<b>RED</b>	<b>GREEN</b>	<b>BLUE</b>	<b>AMBER</b>
32-255 MAX FOG	1-255 MIN to MAX	1-255 MIN to MAX	1-255 MIN to MAX	1-255 MIN to MAX
16-31 = Color Preview, Fog off (5 seconds, repeat every 15 seconds)	0= OFF	0= OFF	0 =OFF	0 =OFF
0-15= OFF				

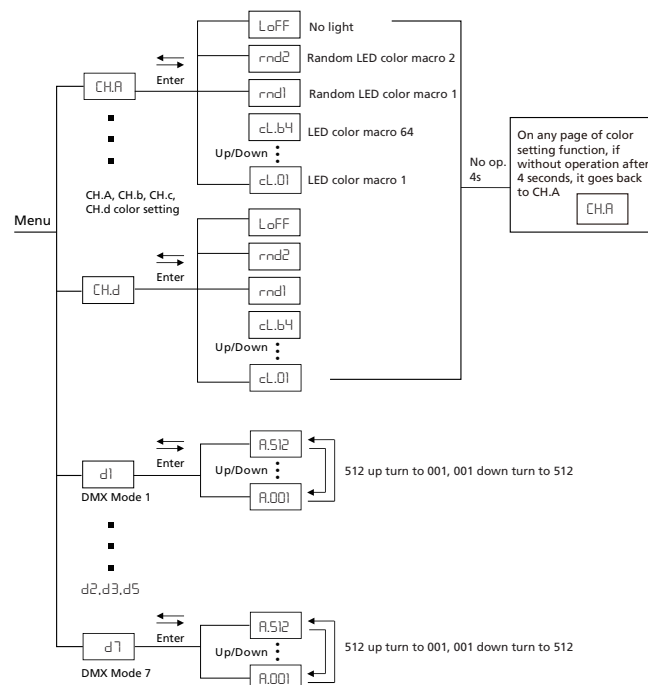


4. 2 seconds after it switches to working status: Heating up, it shows "HEAT". Setting function value is allowed when heating up. With no operation after 4 seconds, it goes back to "HEAT" status.
5. Wait about 9 minutes for heating element to heat up.
6. There are 5 DMX modes for choice; 1CH, 2CH, 3CH, 5CH, & 7CH, please choose the mode by menu: It shows "d1" to "d7".
7. When completed heating, it shows control mode: It shows ".dx" or "A.xxx.", please set the unit to the desired DMX512 address, and DMX control available, wireless control not available. Your CF-7.0 is now ready for operation with your DMX controller.
8. If desired, connect another fog machine: Plug one end of another signal cable in to the output socket(N of figure 1) on the back of the first CF-7.0; plug the other end of the signal cable to the input socket on the back of the second CF-7.0. Follow the same procedure to link more fog machine, if desired; whole link is daisy chain.

-  Manual fogging could be work with DMX control operation at the same time.
- When shot down, the present function status will be saved automatically and continue when Powered on next time.
  - If the red dot before the letters or in the middle of the letters (.dx or A.xxx) on the display is flashing, heating is not completed yet, and duration of fogging is only 1-3 seconds. If the red dot is lighted and does not flash, heating is completed, and duration of each fogging can reach 8-9 seconds.



## SYSTEM MENU



- When shot down, the present function status will be saved automatically and continue when powered on next time.

## Operation

### Stand-alone.....

Please put the Cyclone Vertical LED Fogger on a dry and flat surface.

1. Plug mains power cord from the fog machine into appropriate power supply socket.
2. Primary power on, LED display (G of figure 1) shows “8888”, and 12 LEDs (A of figure 1) around the nozzle all light up. Please check if the LED letters shown on the display lack of strips, and then show the current software version.
3. 2 seconds after it switches to working status: Heating up, it shows “HEAT”. Setting function value is allowed when heating up. With no operation after 4 seconds, it goes back to “HEAT” status.
4. Wait about 9 minutes for heating element to heat up.
5. Push the Manual Fog button (L of figure 1) to smoke.



- Manual fogging is available under any control mode and always executing the Color Macro of CHA.

### Remote Control Operation .....

For best result, use RC-4CA wireless controller.

1. Firmly attach the remote control to socket (O of figure 1) on the back of the unit.
2. Plug mains power cord from the fog machine into appropriate power supply socket.
3. LED display (G of figure 1) shows “8888”, and 12 LEDs (A of figure 1) around the nozzle all light up. Please check if the LED letters shown on the display lack of strips, and then show the current software version.
4. 2 seconds after it switches to working status: Heating up, it shows “HEAT”. Setting function value is allowed when heating up. With no operation after 4 seconds, it goes back to “HEAT” status.
5. Wait about 9 minutes for heating element to heat up.

6. Except “.dx” and “.R.x.x.x”, under any other status, wireless control is available while DMX control is not available.
7. Refer to your controller manual for controller operation details. (Appendix A)



- Manual fogging could be work with remote control operation at the same time.
- When shot down, the present function status will be saved automatically and continue when powered on next time.

### \*Important Remark\*

When the green LED on the controller lights up, it does not mean that the machine has got completely heated, but just means that the machine reaches an enough temperature for fogging.

Check the red dot in the middle of CH.A (or others like CH.b etc.) on the LED display to know whether the machine has completed heating up or not.

If the red dot is flashing, heating is not completed yet, and duration of fogging is only 1-3 seconds. If the red dot is lighted and does not flash, heating is completed, and duration of each fogging can reach 8-9 seconds.

### DMX Control Operation .....

Use LED Display to set the unit to the desired DMX512 address.

Refer to DMX channel chart in Figure 2.

1. Connect the DMX 512 controller cable to the input socket (M of figure 1) of the fog machine unit. Make sure the signal cable polarity is correct.
2. Plug mains power cord from the fog machine into appropriate power supply socket.
3. LED display (G of figure 1) shows “8888”, and 12 LEDs (A of figure 1) around the nozzle all light up. Please check if the LED letters shown on the display lack of strips, and then show the current software version.