User Manual

ORION Cyclops 2 **[ORFX4]**

INTRODUCTION

Welcome to the Orion ORFX4 Cyclops2 9-channel DMX lighting fixture. Compact and lightweight, it is suitable for a wide range of party, nightclub and entertainment purposes, with easily adjustable operating modes and functions.

Please read the instructions carefully and before use.

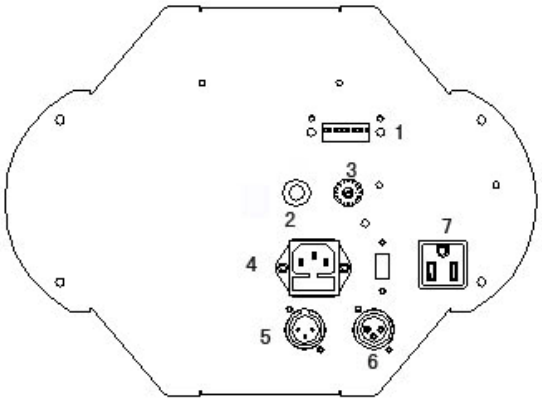
Main features:

- DMX 512 protocol, 9 DMX channels
- DMX, Automatic, Sound Active, and Master/Slave operating modes
- Built-in Auto programs
- Built-in Sound Active programs

SAFETY INFORMATION

- For indoor use only.
- Store in a dry, well-ventilated place.
- Connect to a properly grounded A/C power source.
- Do not operate in an environment above 40^{0}C
- In case of a damaged fuse, always replace with the same type of fuse.
- Always consult a qualified technician for service and repair.

BACK PANEL DIAGRAM



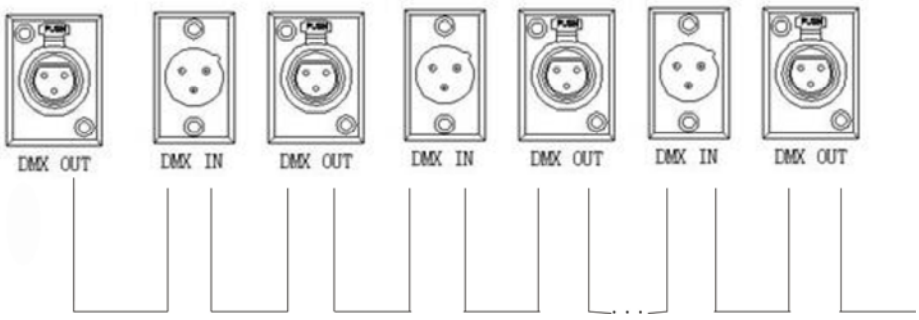
1. Dipswitches
2. Microphone
3. Sound sensitivity knob
4. Power input
5. DMX in
6. DMX out
7. Power output

INSTALLATION

Overhead mounting

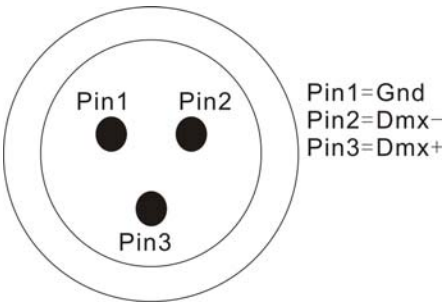
- Verify that the structure can support at least 10 times the weight of all installed fixtures, clamps, cables, auxiliary equipment, and other attached items.
- If hanging the fixture with a rigging clamp, make sure the clamp can support the fixture's weight.
- Loosen the swivel locks, tilt the fixture to the desired angle, and retighten.
- The fixture should be at least 1 metre from the surface to be illuminated and at least 0.3 metres away from any combustible materials.

Multi-connectors methods



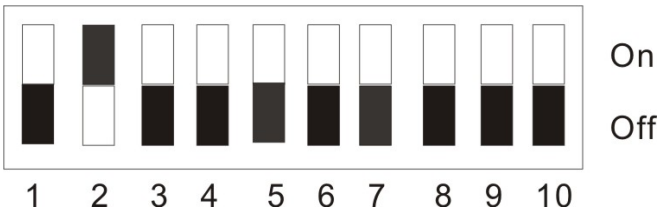
Controller/Master Light 1 Light2 … Light…n

Input/Output Pins



OPERATION

Switch on/off configuration



Switch 1 is off, Switch 2 is on.

Basic Functions

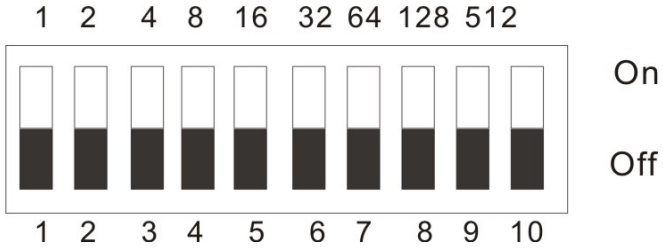
Switches / Function		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
D M X		Set DMX address									ON
S L A V E		x	x	x	x	x	x	x	x	x	ON
M A S T E R	SOUND	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	AUTO	Auto speed				OFF	OFF	OFF	OFF	ON	OFF
	STROBE	x	x	x	x	Strobe speed			OFF	ON	OFF
	ALL ON	x	x	x	x	x	x	x	ON	ON	OFF

X means switch setting has no effect.

DMX mode introduction

Setting DMX mode

Calculate DMX address



1. The DMX address is set by switches 1~9.

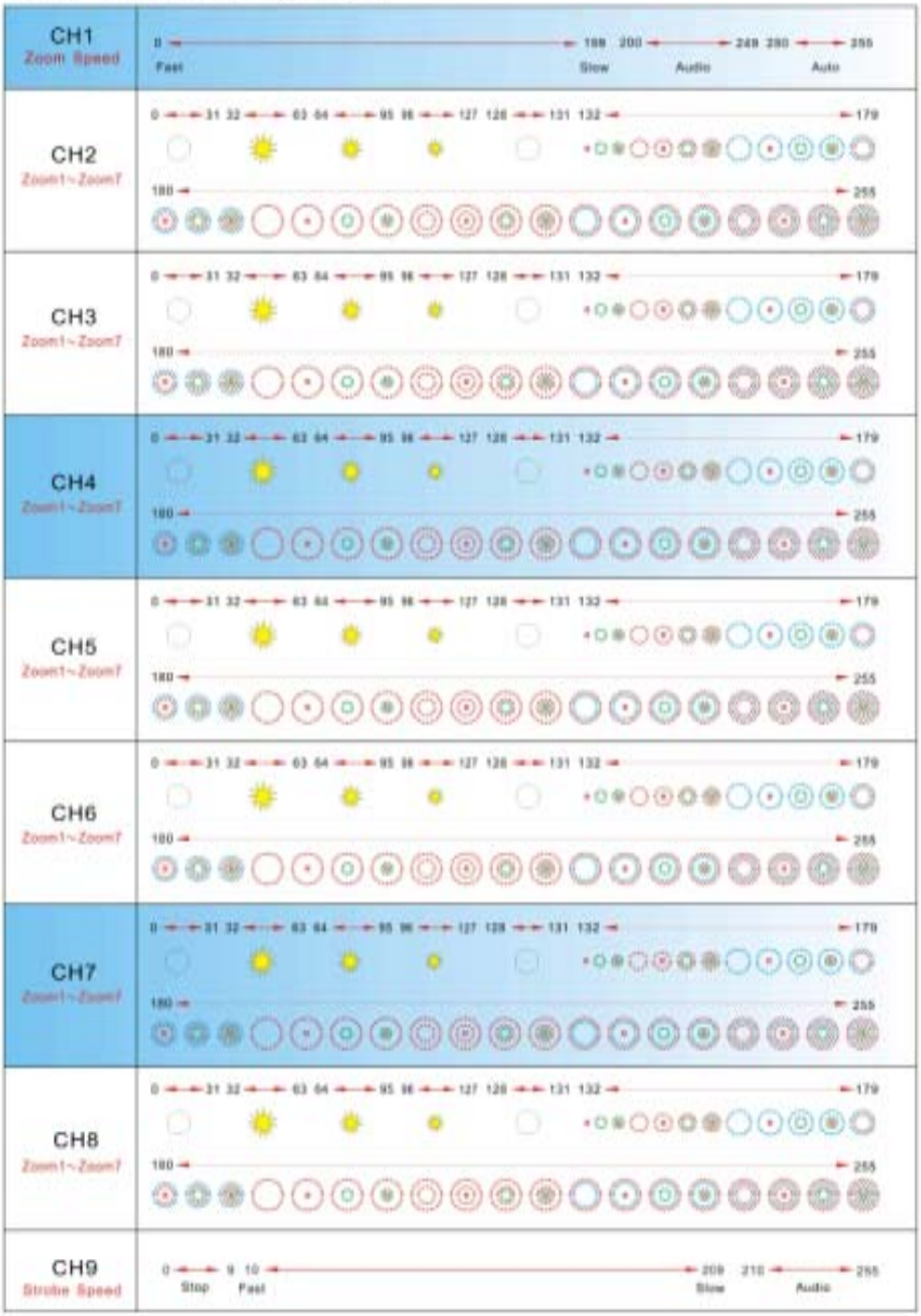
2. When switch10 is ON, it is DMX mode, otherwise it is in MASTER /SLAVE mode.

Example: if switches #2 and #3 are on, and the rest are off, the DMX address is 6. (0+2+4+0+0+0+0+0+0 = 6)

DMX functions

- When a DMX signal is present, the blue LED will flash.
- Each lighting fixture uses 9 DMX channels.
- DMX 512 signals can control different functions on multiple units at the same time.
- Setting fixtures to different DMX addresses allows each light to be controlled individually.

DMX Channel control



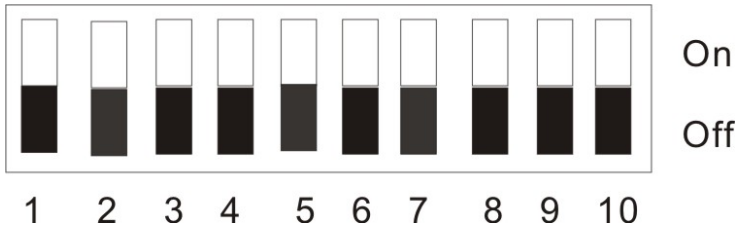
Channel	Data	Function	
	000 ⇆ 199	Mode	Strobe
	200 ⇆ 249		Sound active (all clusters in auto mode)
	250 ⇆ 255		Auto + sound
2	000 ⇆ 031	LED Cluster1	No mode
	032 ⇆ 063		Auto mode 1
	064 ⇆ 095		Auto mode 2
	096 ⇆ 127		Auto mode 3
	128 ⇆ 131		No mode
	132 ⇆ 255		Static color (refer to static color chart)
3	000 ⇆ 031	LED Cluster2	No mode
	032 ⇆ 063		Auto mode 1
	064 ⇆ 095		Auto mode 2
	096 ⇆ 127		Auto mode 3
	128 ⇆ 131		No mode
	132 ⇆ 255		Static color (refer to static color chart)
4	000 ⇆ 031	LED Cluster 3	No mode
	032 ⇆ 063		Auto mode 1
	064 ⇆ 095		Auto mode 2
	096 ⇆ 127		Auto mode 3
	128 ⇆ 131		No mode
	132 ⇆ 255		Static color (refer to static color chart)
5	000 ⇆ 031	LED Cluster4	No mode
	032 ⇆ 063		Auto mode 1
	064 ⇆ 095		Auto mode 2
	096 ⇆ 127		Auto mode 3
	128 ⇆ 131		No mode
	132 ⇆ 255		Static color (refer to static color chart)
6	000 ⇆ 031	LED	No mode

	032 ⇆ 063	Cluster5	Auto mode 1
	064 ⇆ 095		Auto mode 2
	096 ⇆ 127		Auto mode 3
	128 ⇆ 131		No mode
	132 ⇆ 255		Static color (refer to static color chart)
7	000 ⇆ 031	LED Cluster 6	No mode
	032 ⇆ 063		Auto mode 1
	064 ⇆ 095		Auto mode 2
	096 ⇆ 127		Auto mode 3
	128 ⇆ 131		No mode
	132 ⇆ 255		Static color (refer to static color chart)
8	000 ⇆ 031	LED Cluster 7	No mode
	032 ⇆ 063		Auto mode 1
	064 ⇆ 095		Auto mode 2
	096 ⇆ 127		Auto mode 3
	128 ⇆ 131		No mode
	132 ⇆ 255		Static color (refer to static color chart)
9	000 ⇆ 009	Strobe	No
	010 ⇆ 209		fast—>slow (in static colors)
	210 ⇆ 255		Sound active mode (in static colors)

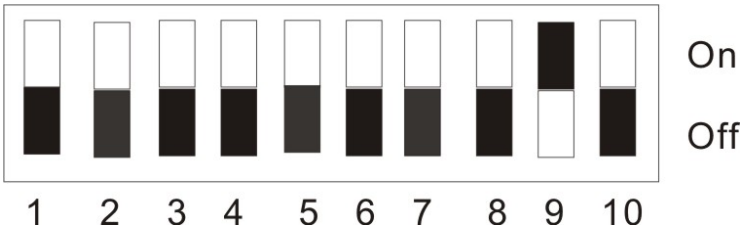
MASTER /SLAVE mode

Example: The fixture is connected to a controller and daisy chained to other DMX fixtures. Set the fixture to Master, and the others to Slave.

Sound active mode



Auto mode



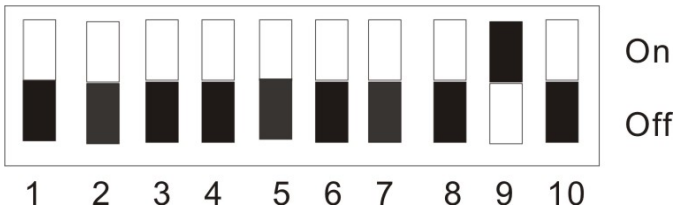
Adjust auto speed with switches #1~4; switches #5~8, 10 should be off.

Auto mode speed

Switch1	Switch2	Switch3	Switch4	Auto speed
OFF	OFF	OFF	OFF	No speed
ON	OFF	OFF	OFF	Slow
×	ON	OFF	OFF	Middle
×	×	ON	OFF	Fast
×	×	×	ON	Very fast

X means switch setting has no effect.

Strobe mode



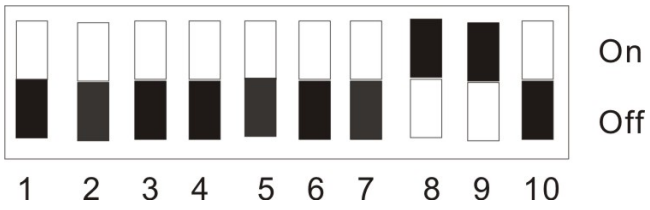
Adjust strobe speed with switches #5~7 (see the following chart).

Strobe speed adjustment

Switch5	Switch6	Switch7	Strobe speed
OFF	OFF	OFF	No speed
ON	OFF	OFF	Slow
×	ON	OFF	Middle
×	×	ON	Fast

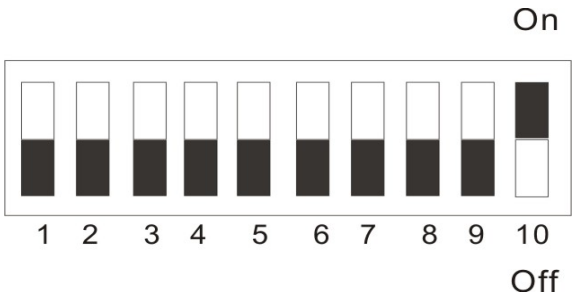
X means switch setting has no effect.

All ON



Switches #1 – 7 have no effect.

SLAVE mode (Slave synchronization to Master)



Settings for switches #1~9 have no effect.

MAINTENANCE and TROUBLESHOOTING

Problem	Probable cause(s)	Suggested remedy
Fixture does not work	No power source	Check if power source is on and power cord is connected
	Fuse is burnt out	Disconnect power and change the same type fuse. If fuse was burnt on end, it may be the problem of line connection
The fixture is powered on, but does not respond to DMX controller data	No DMX data signal connection	Check the data line. Ensure that the first fixture's DMX input is connected to the controller output
	Improperly set DMX address	Check DMX address DIP switch settings
	XLR cord broken or malfunctioning	Test fixtures one by one for proper signal connection.
	Signal output does not match pin2 and pin3 configuration	Toggle the PHASE button on the controller to reverse polarity

Cleaning

Product quality is our top priority. For best performance, periodically check and maintain the fixture. Make sure to keep the fan and vent clean. Accumulated dust can interfere with proper cooling.

TECHNICAL SPECIFICATIONS

Dimensions----------320mmL x 356mmW x 305mmH
LED color & number----------red 280, green 36, blue 126
Beam angle----------45°
DMX-input----------3 pin XLR male socket
DMX-output----------3 pin XLR female socket
DMX pin configuration----------pin1 (shield), pin2 (-), pin3 (+)
Protocols----------DMX 512 USITT
DMX channels----------9
Operating temperature---------- <35 deg. C.
Operating voltage----------120v 60HZ/230V 50HZ
Fuse----------2A ,125V /1A, 250V
Power----------25W
Weight----------7.5kg