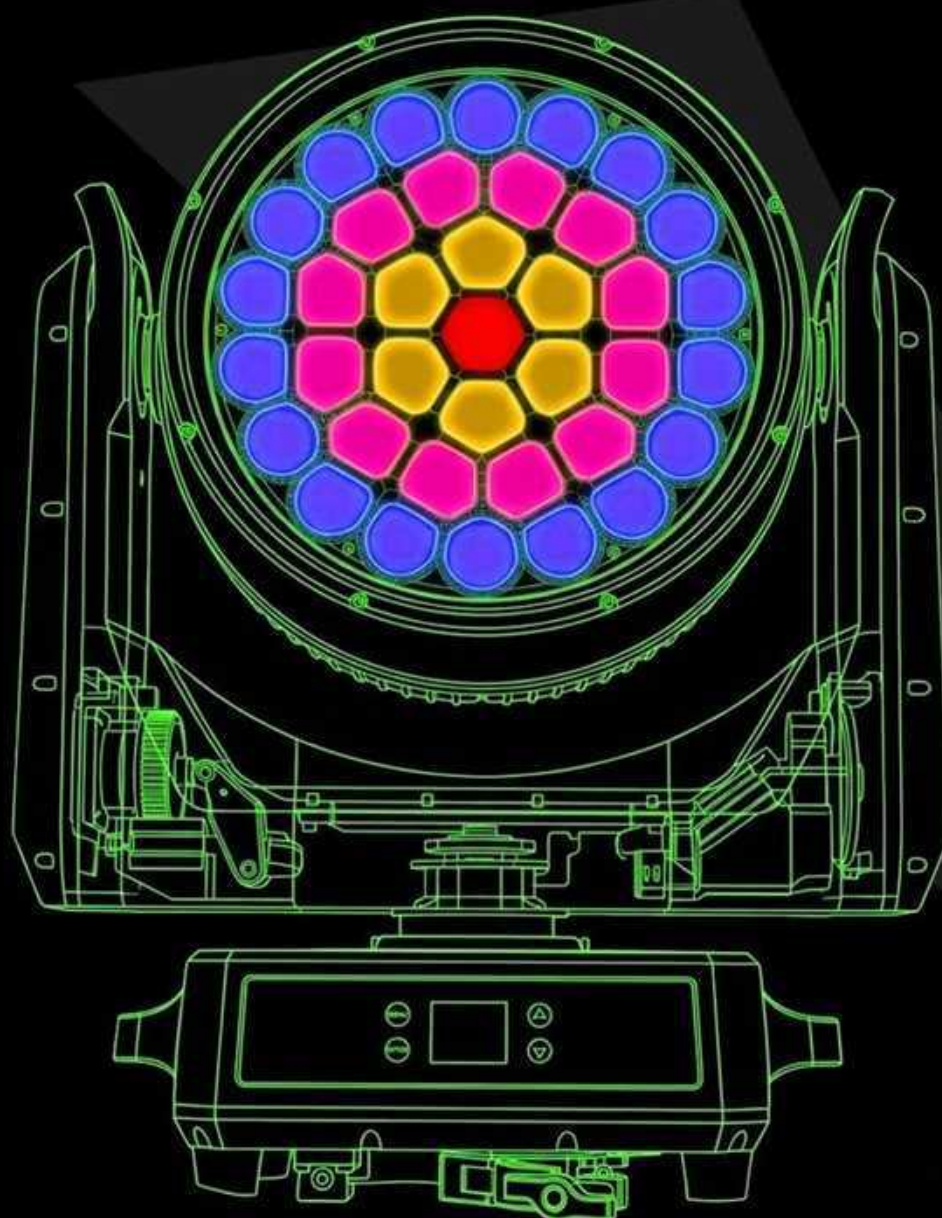
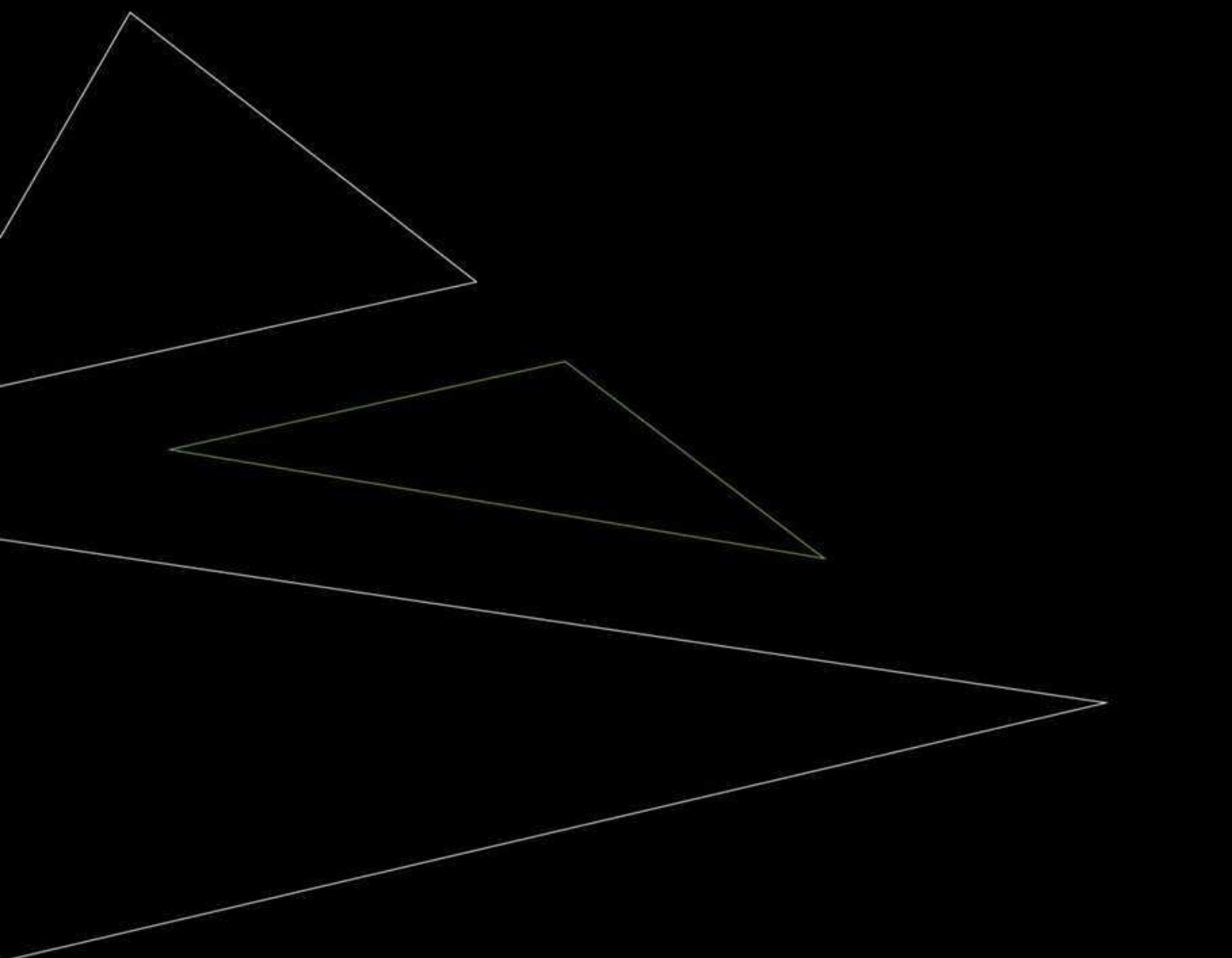




ZM37 MAGIC FX IP

OUTDOOR 37X40W MOVING WASH LIGHT

USER MANUAL



USER MANUAL

THIS PRODUCT MANUAL CONTAINS IMPORTANT INFORMATION ABOUT THE SAFE INSTALLATION AND USE OF THIS PROJECTOR. PLEASE READ AND FOLLOW THESE INSTRUCTIONS CAREFULLY AND KEEP THIS MANUAL IN A SAFE PLACE FOR FUTURE REFERENCE.

PLEASE READ THE INSTRUCTIONS CAREFULLY BEFORE USE

01

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STATEMENT

THE PRODUCT HAS WELL CAPABILITY AND INTACT PACKING WHEN LEAVE FACTORY. ALL OF THE USER SHOULD COMPLY WITH WARNING ITEM AND MANUAL, ANY MISUSE CAUSE OF THE DAMAGES ARE NOT INCLUDED IN OUR GUARANTEE, AND ALSO CAN NOT BE RESPONSIBLE FOR ANY MALFUNCTION & PROBLEM OWING TO IGNORE THE MANUAL.

SAFETY INSTRUCTIONS

01

PLEASE KEEP THIS USER GUIDE FOR FUTURE CONSULTATION. IF YOU SELL THE UNIT TO ANOTHER USER, BE SURE THAT THEY ALSO RECEIVE THIS INSTRUCTION BOOKLET.

UNPACK AND CHECK CAREFULLY THERE IS NO TRANSPORTATION DAMAGE BEFORE USING THE UNIT. BEFORE OPERATING, ENSURE THAT THE VOLTAGE AND FREQUENCY OF POWER SUPPLY MATCH THE POWER REQUIREMENTS OF THE UNIT. IT'S IMPORTANT TO GROUND THE YELLOW/GREEN CONDUCTOR TO EARTH IN ORDER TO AVOID ELECTRIC SHOCK. THE UNIT MUST BE INSTALLED IN A LOCATION WITH ADEQUATE VENTILATION, AT LEAST 50CM FROM ADJACENT SURFACES. BE SURE THAT NO VENTILATION SLOTS ARE BLOCKED. DISCONNECT MAIN POWER BEFORE REPLACEMENT OR SERVICING.

MAKE SURE THERE ARE NO FLAMMABLE MATERIALS CLOSE TO THE UNIT WHILE OPERATING AS IT IS FIRE HAZARD. USE SAFETY CABLE WHEN FIXES THIS UNIT. DO NOT HANDLE THE UNIT BY TAKING ITS HEAD ONLY, BUT ALWAYS BY TAKING ITS BASE. MAXIMUM AMBIENT TEMPERATURE IS TA: 40°C. DO NOT OPERATE IT WHERE THE TEMPERATURE IS HIGHER THAN THIS UNIT SURFACE TEMPERATURE MAY REACH UP TO 85°C. DO NOT TOUCH THE HOUSING BARE-HAND DURING ITS OPERATION. TURN OFF THE POWER AND ALLOW ABOUT 15 MINUTES FOR THE UNIT TO COOL DOWN BEFORE REPLACING OR SERVING.

IN THE EVENT OF SERIOUS OPERATING PROBLEM, STOP USING THE UNIT IMMEDIATELY. NEVER TRY TO REPAIR THE UNIT BY YOURSELF. REPAIRS CARRIED OUT BY UNSKILLED PEOPLE CAN LEAD TO DAMAGE OR MALFUNCTION. PLEASE CONTACT THE NEAREST AUTHORIZED TECHNICAL ASSISTANCE CENTER. ALWAYS USE THE SAME TYPE SPARE PARTS. DO NOT TOUCH ANY WIRE DURING OPERATION AS HIGH VOLTAGE MIGHT BE CAUSING ELECTRIC SHOCK.

WARNING:

DO NOT OPEN THE UNIT WITHIN FIVE MINUTES AFTER SWITCHING OFF. THE HOUSING, THE LENSES, OR THE ULTRAVIOLET FILTER MUST BE REPLACED IF THEY ARE VISIBLY DAMAGED.

CAUTION:

THERE ARE NO USER SERVICEABLE PARTS INSIDE THE UNIT. DO NOT OPEN THE HOUSING OR ATTEMPT ANY REPAIRS YOURSELF. IN THE UNLIKELY EVENT YOUR UNIT MAY REQUIRE SERVICE, PLEASE CONTACT YOUR NEAREST DEALER.

INSTALLATION:

THE UNIT SHOULD BE MOUNTED VIA ITS SCREW HOLES ON THE BRACKET. ALWAYS ENSURE THAT THE UNIT IS FIRMLY FIXED TO AVOID VIBRATION AND SLIPPING WHILE OPERATING. AND MAKE SURE THAT THE STRUCTURE TO WHICH YOU ARE ATTACHING THE UNIT IS SECURE AND IS ABLE TO SUPPORT A WEIGHT OF 10 TIMES OF THE UNIT'S WEIGHT. ALSO ALWAYS USE A SAFETY CABLE THAT CAN HOLD 12 TIMES OF THE WEIGHT OF THE UNIT WHEN INSTALLING THE FIXTURE.

THE EQUIPMENT MUST BE FIXED BY PROFESSIONALS. AND IT MUST BE FIXED AT A PLACE WHERE IS OUT OF THE TOUCH OF PEOPLE.

TECHNICAL SPECIFICATION

02

POWER VOLTAGE: AC 100-240V, 50/60HZ
POWER CONSUMPTION: 1600W
LIGHT SOURCE LIFESPAN: 50000 HOURS
LIGHT SOURCE: HIGH POWER TX 4IN1 RGBL 37PCS 40W LEDS + 408PCS 0.3W 3IN1
RGB LEDS
COLOR MIXING: UNIFORM RGBL COLOR MIXING SYSTEM AND RAINBOW EFFECT
ZOOM ANGLE: 4° - 60° LINEAR ZOOM FUNCTION
COLOR TEMPERATURE : 2700K-8000K
PIXEL EFFECT: EACH LED AND COLOR CAN BE CONTROL INDIVIDUALLY
DIMMER: 0-100% LINEAR DIMMER
STROBE : 1-30 TIMES/ SECOND ELECTRONIC STROBE AND RANDOM STROBE
INSIDE APERTURE : CAN BE CONTROLLED AT A SINGLE POINT, ALLOWING FOR FREE PURSUIT OF FLOWING COLOR CHANGING EFFECTS
PAN 540° MOVEMENT, TILT 360° INFINITE MOVEMENT QUICKER, SMOOTHER AND MORE MUTE

CONTROL

DMX CHANNEL: 26CH / 50CH / 199CH / A199CH
CONTROL MODES: DMX512, AUTO, MASTER-SLAVE
PROTOCOL: DMX-512, RDM, ART-NET, SCAN
RDM: BIDIRECTIONAL COMMUNICATION
COOLING: TEMPERATURE CONTROLLED, OVERHEATING PROTECTION
CONSTRUCTION

CONSTRUCTION

DISPLAY: OLED TOUCH DISPLAY
DMX SOCKET: SEETRONIC 3-PIN XLR WATERPROOF SOCKET IN/OUT
POWER SOCKET: SEETRONIC POWERCON WATERPROOF SOCKET IN/OUT
ART-NET SOCKET: SEETRONIC ART-NET WATERPROOF SOCKET IN/OUT
HOUSING: WHOLE DIE-CASTING ALUMINUM HOUSING

SIZE

PRODUCT SIZE: 490X365X650MM

WEIGHT

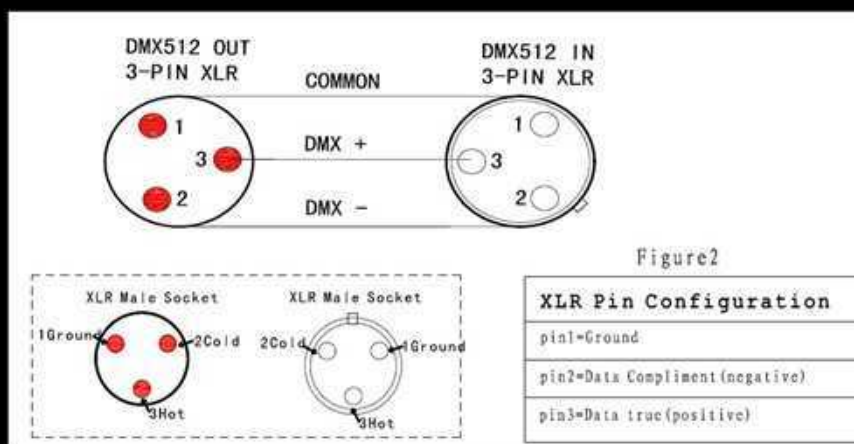
NET WEIGHT: 28KGS

The background features several thin, white geometric lines. A horizontal line is positioned near the top left. A large, thin triangle is oriented with its base at the top and its vertex pointing downwards, occupying the right half of the page. Another smaller triangle is located in the bottom right corner. The text is centered in the upper left area.

HOW TO CONTROL THE DEVICE

03

THE DMX512 IS WIDELY USED IN INTELLIGENT LIGHTING CONTROL,WITH A DMX 512 CONTROLLER.CONNECT SEVERAL LIGHTS TOGETHER,DMX IN AND DMX OUT, 3 PIN XLR CONNECTORS: PIN 1: GND, PIN 2: NEGATIVE SIGNAL (-), PIN 3: POSITIVE SIGNAL (+)



DISPLAY

DOWN TO GO BACKWARD IN THE SELECTED FUNCTIONS
UP TO GO FORWARD IN THE SELECTED FUNCTIONS
ENTER TO CONFIRM THE SELECTED FUNCTIONS

SET DMX ADDRESS CODE

1. PRESS "MENU" TO "SET DMX ADDRESS",AND PRESS "ENTER" KEYS TO ENTER INTO
2. SHOW "SET DMX ADDRESS DMX ADDRESS:001",PRESS THE "UP AND DOWN" KEYS TO AMENDED
- 3 PRESS "ENTER" KEYS TO SAVE AND EXIT,PRESS THE "MENU" KEYS DOES NOT SAVE AND EXIT
- 4 FUNCTIONS SETTING VIA LCD DISPLAY PANEL AS BELOW:



- ADDRESS: CLICK TO ENTER THE ADDRESS CODE SETTINGS
- SETTINGS: CLICK TO ENTER SYSTEM SETTINGS
- MANUAL: CLICK TO ENTER MANUAL MODE
- CALIBRATION: CLICK TO ENTER THE PASSWORD AND ENTER THE SYSTEM CALIBRATION MODE
- RESET: CLICK TO ENTER THE SYSTEM RESET MODE
- INFORMATION: CLICK TO VIEW THE DEPARTMENT

Menu		Submenu	Three-level menu/parameters
Quick menu interface		return	Return to main interface
		centre /EN	Chinese/English
		positive sign	Flip the display interface
		set up	Go to Settings
		running mode	Artnet/DMX/Artnet+DMX/Trailer 1/Trailer 2/Voice-controlled
		channel pattern	26CH/50CH/199CH/199CH
		network settings	IP network address code of data packet
		Horizontal Inversion	Turn on/off
		Vertical Reversal	Turn on/off
		Hall error correction	Turn on/off
		optocoupler error correction	Turn on/off

Settings	System Settings	signal holding	Turn on/off
		Screen Protector	Turn on/off
		Flip screen	Turn on/off
		Sync updates	Turn on/off
		language	Chinese/English
		light dimming speed	Fast/Standard
		dimming curve	Curves 1-4
		Screen Lock	Turn on/off
		factory data reset	Confirm/Cancel
	manual mode	Manual control of channel values	000-255
	system calibration	enter password	lamp calibration
	senior	Go to the previous level	
		network (IP/MS)	Add, subtract, confirm
		Data packet (Net(0-127)) / Sub_Uni	Add, subtract
		lamp reset	
		XY reset	

	system info	complete reduction	
		repositioning information	Display specific information
		DMX data detection	Display specific DMX detection content
		sensor information	Display specific information about optocouplers and Hall effect sensors
		Hardware version	Display hardware version
		software release	Display software version

SCREEN ROTATION

THE SYSTEM AUTOMATICALLY ROTATES THE SCREEN BASED ON THE DIRECTION OF GRAVITY, ELIMINATING THE NEED FOR MANUAL ROTATION. YOU CAN ALSO DISABLE THE AUTO-ROTATION FEATURE.

MANUAL CONTROL

THIS INTERFACE CONTROLS THE CURRENT LIGHT. SEE THE CHANNEL TABLE FOR DETAILS. PRESS OK TO ENTER EDIT MODE. USE THE UP AND DOWN KEYS TO CHANGE CHANNEL VALUES. PRESS OK AGAIN TO SAVE CHANGES AND EXIT EDIT. PRESS EXIT TO EXIT EDIT WITHOUT SAVING CHANGES.

SYSTEM CALIBRATION

SET A PASSWORD HERE TO PREVENT UNAUTHORIZED ACCESS. PRESS OK TO VERIFY THE PASSWORD.

option	explain
initial position calibration	After entering the sub-interface, you can adjust the reset positions of motors such as X-axis, Y-axis, focus, and rotation to compensate for hardware installation errors. The adjustment range is 0 to 255, with 127 indicating no adjustment.
white balance CAL	Adjust the power of the adjustable lamp and LED1-37 (red, green, blue, white) within the range of 0 to 255, where 255 indicates no adjustment.
calibration of power	Adjust the maximum power of the entire lamp. The range is 0 to 255, where 255 means no adjustment.
voice sensitivity	Adjust the voice sensitivity.
change password	Set the system calibration password.

reset

Press the up and down keys to switch between reset modes.

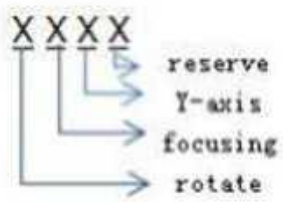
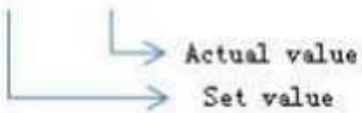
Press OK to reset directly.

option	explain
lamp reset	focus and rotate motor reset

XY reset	Reset XY axis
complete reduction	lamp reset

system info

option	explain
Reduction error message	If the red ERR indicator light turns on, the lamp is malfunctioning. 1) IC1 Communication Failure (Motor and Display Board Communication Failure) 2) X/Y optical coupling error 3) Focusing and rotation reset failed
DMX data monitoring	Enter the sub-interface to view channel values numerically and navigate pages

sensor information	1) Hall:  2) sensor : <u>X/Y Optical Coupler: XXXX--XXXX</u> 
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DMX

CHANNEL TABLE

DMX 512 26CHS XM37 MAGIC FX IP

26CH	Function	Value	Description
1	Pan	0-255	Pan
2	Pan Fine	0-255	Pan Fine
3	Tilt	0-255	Tilt
4	Tilt Fine	0-255	Tilt Fine
5	Pan Tilt Speed	0-255	Pan Tilt Speed
6	Reserve	0-255	Reserve
		0-127	Inaction

7	Tilt Infinite Rotation	128-189	Forward rotation from fast to slow
		190-193	Stop
		194-255	Slow to fast back throw
8	Background color red	0-255	Background color red (0-100%)
9	Background color red fine	0-255	Red background adjustment (0-100%)
10	Background Green	0-255	Background color green(0-100%)
11	Background Green fine	0-255	Background Green Adjustment (0-100%)
12	Background color Blue	0-255	Background color blue (0-100%)
13	Background color Blue fine	0-255	Background color adjustment (0-100%)
14	Background color white	0-255	Background color white(0-100%)
15	Background color white fine	0-255	Background color adjustment (0-100%)
16	Strobe	0-31	lighting-off
		32-63	light up
		64-95	The stroboscopic speed increases from slow to fast.
		96-127	light up
		128-159	Pulsed strobe from slow to fast

		160-191	light up
		192-223	random strobe
		224-255	light up
17	Dimmer	0-255	Dimming (0-100%)
18	Dimming fine	0-255	Dimming fine adjustment (0-100%)
19	CTO	0-21	NF
		22-42	
		43-63	7500K
		64-84	
		85-105	6500K
		106-126	
		127-147	5500K
		148-168	
		169-189	4500K
		190-210	
		211-231	3500K
		232-255	
20	Color presets	0-255	Color presets
21	Color Presets RGBW Cross Fade	0	Output controlled by RGBW values
		1-254	RGBW settings and color preset channels for cross fade-in and fade-out
		255	Control color with color presets

22	Color preset cross fade	0-4	None
		4-255	Two-color preset cross-gradient from 100 milliseconds to 5 seconds
23	Zoom	0-255	Zoom
24	Zoom Fine	0-255	Zoom Fine
25	Reserve		Reserve
26	Reset/ internal function	0-4	None
		5-9	screen saver
		15-19	Display reverse close
		45-49	Lighting curve linearity
		55-57	1K
		61-63	6K
		80-84	All motors reset
		88-90	Zoom motor reset

DMX 512 50 CHs ZM37 Magic FX IP

50CH	Function	Value	Description
1	Pan	0-255	Pan
2	Pan Fine	0-255	Pan Fine
3	Tilt	0-255	Tilt
4	Tilt Fine	0-255	Tilt Fine
5	Pan Tilt Speed	0-255	Pan Tilt Speed
6	Reserve	0-255	Reserve

7	Tilt Infinite Rotation	0-127	inaction
		128-189	Forward rotation from fast to slow
		190-193	Stop
		194-255	Slow to fast back throw
8	Background color red	0-255	Background color red (0-100%)
9	Background color red fine	0-255	Red background adjustment (0-100%)
10	Background Green	0-255	Background color green(0-100%)
11	Background Green fine	0-255	Background Green Adjustment (0-100%)
12	Background color Blue	0-255	Background color blue (0-100%)
13	Background color Blue fine	0-255	Background color adjustment (0-100%)
14	Background color white	0-255	Background color white(0-100%)
15	Background color white fine	0-255	Background color adjustment (0-100%)
16	Strobe	0-31	lighting-off
		32-63	light up
		64-95	The stroboscopic speed increases from slow to fast.
		96-127	light up

		128-159	Pulsed strobe from slow to fast
		160-191	light up
		192-223	random strobe
		224-255	light up
17	Dimmer	0-255	Dimming (0-100%)
18	Dimming fine	0-255	Dimming fine adjustment (0-100%)
19	CTO	0-21	NF
		22-42	
		43-63	7500K
		64-84	
		85-105	6500K
		106-126	
		127-147	5500K
		148-168	
		169-189	4500K
		190-210	
		211-231	3500K
		232-255	
20	Color presets	0-255	Color presets
21	Color Presets	0	Output controlled by RGBW values
	RGBW Cross Fade	1-254	RGBW settings and color preset channels for cross fade-in and fade-out

		255	Control color with color presets
22	Color preset cross fade	0-4	None
		4-255	Two-color preset cross-gradient from 100 milliseconds to 5 seconds
23	Zoom	0-255	Zoom
24	Zoom Fine	0-255	Zoom Fine
25	Reserve	0-255	Reserve
26	Reset/ internal function	0-4	None
		5-9	screen saver
		15-19	Display reverse close
		45-49	Lighting curve linearity
		55-57	1K
		61-63	6K
		80-84	All motors reset
		88-90	Zoom motor reset
		0-4	None
		10-14	Effect 1
		15-19	Effect 2
		20-24	Effect 3
		25-29	Effect 4
		30-34	Effect 5
		35-39	Effect 6

27	Main light effect	40-44	Effect 7
		45-49	Effect 8
		50-54	Effect 9
		55-59	Effect 10
		60-64	Effect 11
		65-69	Effect 12
		70-74	Effect 13
		75-79	Effect 14
		80-84	Effect 15
		85-89	Effect 16
		90-94	Effect 17
		95-99	Effect 18
		100-104	Effect 19
		105-109	Effect 20
		110-255	
28	Main light effect speed	0-125	The main light effect speed Forward rotation from fast to slow
		126-130	Stop
		131-255	The main light effect speed backward rotation from fast to slow
29	Main Light effect	0-255	Main light effect length function

	faded		
30	main light length effect	0-255	main light length effect (0-100%)
31	Main light effect: Red	0-255	Main light red effect (0-100%)
32	Main light effect: Green	0-255	Main light green effect (0-100%)
33	Main light effect: Blue	0-255	Main light blue effect (0-100%)
34	Main light effect: White	0-255	Main light white effect (0-100%)
35	Main light dimming	0-255	Main light dimming (0-100%)
36	Main light background dimming	0-255	Main light background dimming (0-100%)
37	Main light effect strobe	0-31	lighting-off
		32-63	light up
		64-95	The stroboscopic speed increases from slow to fast.
		96-127	light up
		128-159	Pulsed strobe from slow to fast
		160-191	light up
		192-223	random strobe
		224-255	light up

38	Halo Ring control	0-255	Halo Ring control
39	Halo Ring Dimmer	0-255	Halo Ring Dimmer
40	Halo Ring Dimmer Fine	0-255	Halo Ring Dimmer Fine
41	Halo Ring Effect Red	0-255	Halo Ring Effect Red
42	Halo Ring Effect Green	0-255	Halo Ring Effect Green
43	Halo Ring Effect Blue	0-255	Halo Ring Effect Blue
44	Halo Ring Effect	0-9	None
		10-255	Effect 1-62 (Every 4 values for 1 effect)
45	Reserve	0-255	None
46	Halo Ring Effect Speed	0-130	Halo ring effect speed forward from fast to slow
		131-255	Halo ring effect speed backward from fast to slow
47	Halo ring effect background dimming	0-255	Halo ring effect background dimming (0-100%)
48	Halo Ring Effect Background Red Color	0-255	Halo Ring effect background red color (0-100%)
49	Halo Ring Effect Background Green Color		Halo Ring effect background green color (0-100%)

50	Halo Ring Effect Background Blue Color		Halo Ring effect background blue color (0-100%)
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DMX 512 199CHs ZM37 Magic FX IP

199CH	Function	Value	Description
1	Pan	0-255	Pan
2	Pan Fine	0-255	Pan Fine
3	Tilt	0-255	Tilt
4	Tilt Fine	0-255	Tilt Fine
5	Pan Tilt Speed	0-255	Pan Tilt Speed
6	Reserve	0-255	Reserve
7	Tilt Infinite Rotation	0-127	inaction
		128-189	Forward rotation from fast to slow
		190-193	Stop
		194-255	Slow to fast back throw
8	Background color red	0-255	Background color red (0-100%)
9	Background color red fine	0-255	Red background adjustment (0-100%)
10	Background Green	0-255	Background color green(0-100%)
11	Background Green fine	0-255	Background Green Adjustment (0-100%)

12	Background color Blue	0-255	Background color blue (0-100%)
13	Background color Blue fine	0-255	Background color adjustment (0-100%)
14	Background color white	0-255	Background color white(0-100%)
15	Background color white fine	0-255	Background color adjustment (0-100%)
16	Strobe	0-31	lighting-off
		32-63	light up
		64-95	The stroboscopic speed increases from slow to fast.
		96-127	light up
		128-159	Pulsed strobe from slow to fast
		160-191	light up
		192-223	random strobe
		224-255	light up
17	Dimmer	0-255	Dimming (0-100%)
18	Dimming fine	0-255	Dimming fine adjustment (0-100%)
19	CTO	0-21	NF
		22-42	
		43-63	7500K
		64-84	
		85-105	6500K

		106-126	5500K
		127-147	
		148-168	
		169-189	4500K
		190-210	
		211-231	3500K
		232-255	
20	Color presets	0-255	Color presets
21	Color Presets RGBW Cross Fade	0	Output controlled by RGBW values
		1-254	RGBW settings and color preset channels for cross fade-in and fade-out
		255	Control color with color presets
22	Color preset cross fade	0-4	None
		4-255	Two-color preset cross-gradient from 100 milliseconds to 5 seconds
23	Zoom	0-255	Zoom
24	Zoom Fine	0-255	Zoom Fine
25	Reserve	0-255	Reserve
26	Reset/ internal function	0-4	None
		5-9	screen saver
		15-19	Display reverse close
		45-49	Lighting curve linearity
		55-57	1K

27	Main light effect	61-63	6K
		80-84	All motors reset
		88-90	Zoom motor reset
		0-4	None
		10-14	Effect 1
		15-19	Effect 2
		20-24	Effect 3
		25-29	Effect 4
		30-34	Effect 5
		35-39	Effect 6
		40-44	Effect 7
		45-49	Effect 8
		50-54	Effect 9
		55-59	Effect 10
		60-64	Effect 11
		65-69	Effect 12
		70-74	Effect 13
		75-79	Effect 14
		80-84	Effect 15
		85-89	Effect 16
		90-94	Effect 17
		95-99	Effect 18

		100-104	Effect 19
		105-109	Effect 20
		110-255	
28	Main light effect speed	0-125	The main light effect speed Forward rotation from fast to slow
		126-130	Stop
		131-255	The main light effect speed backward rotation from fast to slow
29	Main Light effect faded	0-255	Main light effect length function
30	main light length effect	0-255	main light length effect (0-100%)
31	Main light effect: Red	0-255	Main light red effect (0-100%)
32	Main light effect: Green	0-255	Main light green effect (0-100%)
33	Main light effect: Blue	0-255	Main light blue effect (0-100%)
34	Main light effect: White	0-255	Main light white effect (0-100%)
35	Main light dimming	0-255	Main light dimming (0-100%)
36	Main light background dimming	0-255	Main light background dimming (0-100%)

37	Main light effect strobe	0-31	lighting-off
		32-63	light up
		64-95	The stroboscopic speed increases from slow to fast.
		96-127	light up
		128-159	Pulsed strobe from slow to fast
		160-191	light up
		192-223	random strobe
		224-255	light up
38	Halo Ring control	0-255	Halo Ring control
39	Halo Ring Dimmer	0-255	Halo Ring Dimmer
40	Halo Ring Dimmer Fine	0-255	Halo Ring Dimmer Fine
41	Halo Ring Effect Red	0-255	Halo Ring Effect Red
42	Halo Ring Effect Green	0-255	Halo Ring Effect Green
43	Halo Ring Effect Blue	0-255	Halo Ring Effect Blue
44	Halo Ring Effect	0-9	None
		10-255	Effect 1-62 (Every 4 values for 1 effect)
45	Reserve	0-255	None

46	Halo Ring Effect Speed	0-130	Halo ring effect speed forward from fast to slow
		131-255	Halo ring effect speed backward from fast to slow
47	Halo ring effect background dimming	0-255	Halo ring effect background dimming (0-100%)
48	Halo Ring Effect Background Red Color	0-255	Halo Ring effect background red color (0-100%)
49	Halo Ring Effect Background Green Color		Halo Ring effect background green color (0-100%)
50	Halo Ring Effect Background Blue Color		Halo Ring effect background blue color (0-100%)
51	Main light control	0-255	RGBW settings for cross fade between color single-point channels
52	R 1 LED Dimming	0-255	R1 LED dimming (0-100%)
53	G 1 LED Dimming	0-255	G1 LED dimming (0-100%)
54	B 1 LED Dimming	0-255	B1 LED dimming (0-100%)
55	WLED Dimming	0-255	W1 LED dimming (0-100%)
56	R 2 LED Dimming	0-255	R2 LED dimming (0-100%)
57	G 2 LED Dimming	0-255	G2 LED dimming (0-100%)

58	B 2 LED Dimming	0-255	B2 LED dimming (0-100%)
59	W2 LED Dimming	0-255	W2 LED dimming (0-100%)
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196	R 37 LED Dimming	0-255	R37 LED dimming (0-100%)
197	G 37 LED Dimming	0-255	G37 LED dimming (0-100%)
198	B 37 LED Dimming	0-255	B37 LED dimming (0-100%)
199	W37 LED Dimming	0-255	W37 LED dimming (0-100%)

DMX 512 A199CHs ZM37 Magic FX IP

A199	Function	Value	Description
1	Pan	0-255	Pan
2	Pan Fine	0-255	Pan Fine
3	Tilt	0-255	Tilt
4	Tilt Fine	0-255	Tilt Fine
5	Pan Tilt Speed	0-255	Pan Tilt Speed
6	Reserve	0-255	Reserve
		0-127	inaction

7	Tilt Infinite Rotation	128-189	Forward rotation from fast to slow
		190-193	Stop
		194-255	Slow to fast back throw
8	Background color red	0-255	Background color red (0-100%)
9	Background color red fine	0-255	Red background adjustment (0-100%)
10	Background Green	0-255	Background color green(0-100%)
11	Background Green fine	0-255	Background Green Adjustment (0-100%)
12	Background color Blue	0-255	Background color blue (0-100%)
13	Background color Blue fine	0-255	Background color adjustment (0-100%)
14	Background color white	0-255	Background color white(0-100%)
15	Background color white fine	0-255	Background color adjustment (0-100%)
16	Strobe	0-31	lighting-off
		32-63	light up
		64-95	The stroboscopic speed increases from slow to fast.
		96-127	light up
		128-159	Pulsed strobe from slow to fast

		160-191	light up
		192-223	random strobe
		224-255	light up
17	Dimmer	0-255	Dimming (0-100%)
18	Dimming fine	0-255	Dimming fine adjustment (0-100%)
19	CTO	0-21	NF
		22-42	
		43-63	7500K
		64-84	
		85-105	6500K
		106-126	
		127-147	5500K
		148-168	
		169-189	4500K
		190-210	
		211-231	3500K
		232-255	
20	Color presets	0-255	Color presets
21	Color Presets RGBW Cross Fade	0	Output controlled by RGBW values
		1-254	RGBW settings and color preset channels for cross fade-in and fade-out
		255	Control color with color presets

22	Color preset cross fade	0-4	None
		4-255	Two-color preset cross-gradient from 100 milliseconds to 5 seconds
23	Zoom	0-255	Zoom
24	Zoom Fine	0-255	Zoom Fine
25	Reserve	0-255	Reserve
26	Reset/ internal function	0-4	None
		5-9	screen saver
		15-19	Display reverse close
		45-49	Lighting curve linearity
		55-57	1K
		61-63	6K
		80-84	All motors reset
		88-90	Zoom motor reset
		0-4	None
		10-14	Effect 1
		15-19	Effect 2
		20-24	Effect 3
		25-29	Effect 4
		30-34	Effect 5
		35-39	Effect 6
		40-44	Effect 7

27	Main light effect	45-49	Effect 8
		50-54	Effect 9
		55-59	Effect 10
		60-64	Effect 11
		65-69	Effect 12
		70-74	Effect 13
		75-79	Effect 14
		80-84	Effect 15
		85-89	Effect 16
		90-94	Effect 17
		95-99	Effect 18
		100-104	Effect 19
		105-109	Effect 20
		110-255	
28	Main light effect speed	0-125	The main light effect speed Forward rotation from fast to slow
		126-130	Stop
		131-255	The main light effect speed backward rotation from fast to slow
29	Main Light effect faded	0-255	Main light effect length function

30	main light length effect	0-255	main light length effect (0-100%)
31	Main light effect: Red	0-255	Main light red effect (0-100%)
32	Main light effect: Green	0-255	Main light green effect (0-100%)
33	Main light effect: Blue	0-255	Main light blue effect (0-100%)
34	Main light effect: White	0-255	Main light white effect (0-100%)
35	Main light dimming	0-255	Main light dimming (0-100%)
36	Main light background dimming	0-255	Main light background dimming (0-100%)
37	Main light effect strobe	0-31	lighting-off
		32-63	light up
		64-95	The stroboscopic speed increases from slow to fast.
		96-127	light up
		128-159	Pulsed strobe from slow to fast
		160-191	light up
		192-223	random strobe
		224-255	light up
38	Halo Ring control	0-255	Halo Ring control

39	Halo Ring Dimmer	0-255	Halo Ring Dimmer
40	Halo Ring Dimmer Fine	0-255	Halo Ring Dimmer Fine
41	Halo Ring Effect Red	0-255	Halo Ring Effect Red
42	Halo Ring Effect Green	0-255	Halo Ring Effect Green
43	Halo Ring Effect Blue	0-255	Halo Ring Effect Blue
44	Halo Ring Effect	0-9	None
		10-255	Effect 1-62 (Every 4 values for 1 effect)
45	Reserve	0-255	None
46	Halo Ring Effect Speed	0-130	Halo ring effect speed forward from fast to slow
		131-255	Halo ring effect speed backward from fast to slow
47	Halo ring effect background dimming	0-255	Halo ring effect background dimming (0-100%)
48	Halo Ring Effect Background Red Color	0-255	Halo Ring effect background red color (0-100%)
49	Halo Ring Effect Background Green Color		Halo Ring effect background green color (0-100%)
50	Halo Ring Effect Background		Halo Ring effect background blue color (0-100%)

	Blue Color		
51	Main light control	0-255	RGBW settings for cross fade between color single-point channels
B1	R 1 LED Dimming	0-255	R1 LED dimming (0-100%)
B2	G 1 LED Dimming	0-255	G1 LED dimming (0-100%)
B3	B 1 LED Dimming	0-255	B1 LED dimming (0-100%)
B4	WLED Dimming	0-255	W1 LED dimming (0-100%)
B5	R 2 LED Dimming	0-255	R2 LED dimming (0-100%)
B6	G 2 LED Dimming	0-255	G2 LED dimming (0-100%)
B7	B 2 LED Dimming	0-255	B2 LED dimming (0-100%)
B8	W2 LED Dimming	0-255	W2 LED dimming (0-100%)
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B145	R 37 LED Dimming	0-255	R37 LED dimming (0-100%)
B146	G 37 LED Dimming	0-255	G37 LED dimming (0-100%)
B147	B 37 LED Dimming	0-255	B37 LED dimming (0-100%)
B148	W37 LED Dimming	0-255	W37 LED dimming (0-100%)

TROUBLE SHOOTING

FOLLOWING ARE A FEW COMMON PROBLEMS THAT MAY OCCUR DURING OPERATION. HERE ARE SOME SUGGESTIONS FOR EASY TROUBLESHOOTING:

A. THE UNIT DOES NOT WORK, NO LIGHT AND THE FAN DOES NOT WORK

1. CHECK THE CONNECTION OF POWER AND MAIN FUSE.
2. MEASURE THE MAINS VOLTAGE ON THE MAIN CONNECTOR.
3. CHECK THE POWER ON LED.

B. NOT RESPONDING TO DMX CONTROLLER

1. DMX LED SHOULD BE ON. IF NOT, CHECK DMX CONNECTORS, CABLES TO SEE IF LINK PROPERLY.
2. IF THE DMX LED IS ON AND NO RESPONSE TO THE CHANNEL, CHECK THE ADDRESS SETTINGS AND DMX POLARITY.
3. IF YOU HAVE INTERMITTENT DMX SIGNAL PROBLEMS, CHECK THE PINS ON CONNECTORS OR ON PCB OF THE UNIT OR THE PREVIOUS ONE.
4. TRY TO USE ANOTHER DMX CONTROLLER.
5. CHECK IF THE DMX CABLES RUN NEAR OR RUN ALONGSIDE TO HIGH VOLTAGE CABLES THAT MAY CAUSE DAMAGE OR INTERFERENCE TO DMX INTERFACE CIRCUIT.

FIXTURE CLEANING

THE CLEANING OF INTERNAL AND EXTERNAL OPTICAL LENSES AND/OR MIRRORS MUST BE CARRIED OUT PERIODICALLY TO OPTIMIZE LIGHT OUTPUT. CLEANING FREQUENCY DEPENDS ON THE ENVIRONMENT IN WHICH THE FIXTURE OPERATES: DAMP, SMOKY OR PARTICULARLY DIRTY SURROUNDING CAN CAUSE GREATER ACCUMULATION OF DIRT ON THE UNIT'S OPTICS.

▣ **CLEAN WITH SOFT CLOTH USING NORMAL GLASS CLEANING FLUID.**

▣ **ALWAYS DRY THE PARTS CAREFULLY.**

▣ **CLEAN THE EXTERNAL OPTICS AT LEAST EVERY 20 DAYS. CLEAN THE INTERNAL OPTICS AT LEAST EVERY 30/60 DAYS.**