



HYDREX WASHFLOW FX1650 IP

    /illusioncad

DESIGNED FOR CANADA 



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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.

1.Safety Instruction

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 T_a : 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 servicing.

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.

2. Technical Specification

Power Voltage: AC 100-240V, 50/60Hz

Power Consumption: 900W

Light source lifespan: 20000 hours

Light Source: High power TX 4in1 RRGBL 16Pcs 50W LEDs + 204pcs 0.3W 3in1 RGB LEDs

Color Mixing: Uniform RRGBL 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°, Tilt 270° Movement quicker, smoother and more mute

Control

DMX Channel: BASIC 24CH / STAND 44CH / EXTEND 48CH / EXTEND2 113CH

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: 392x283x511mm

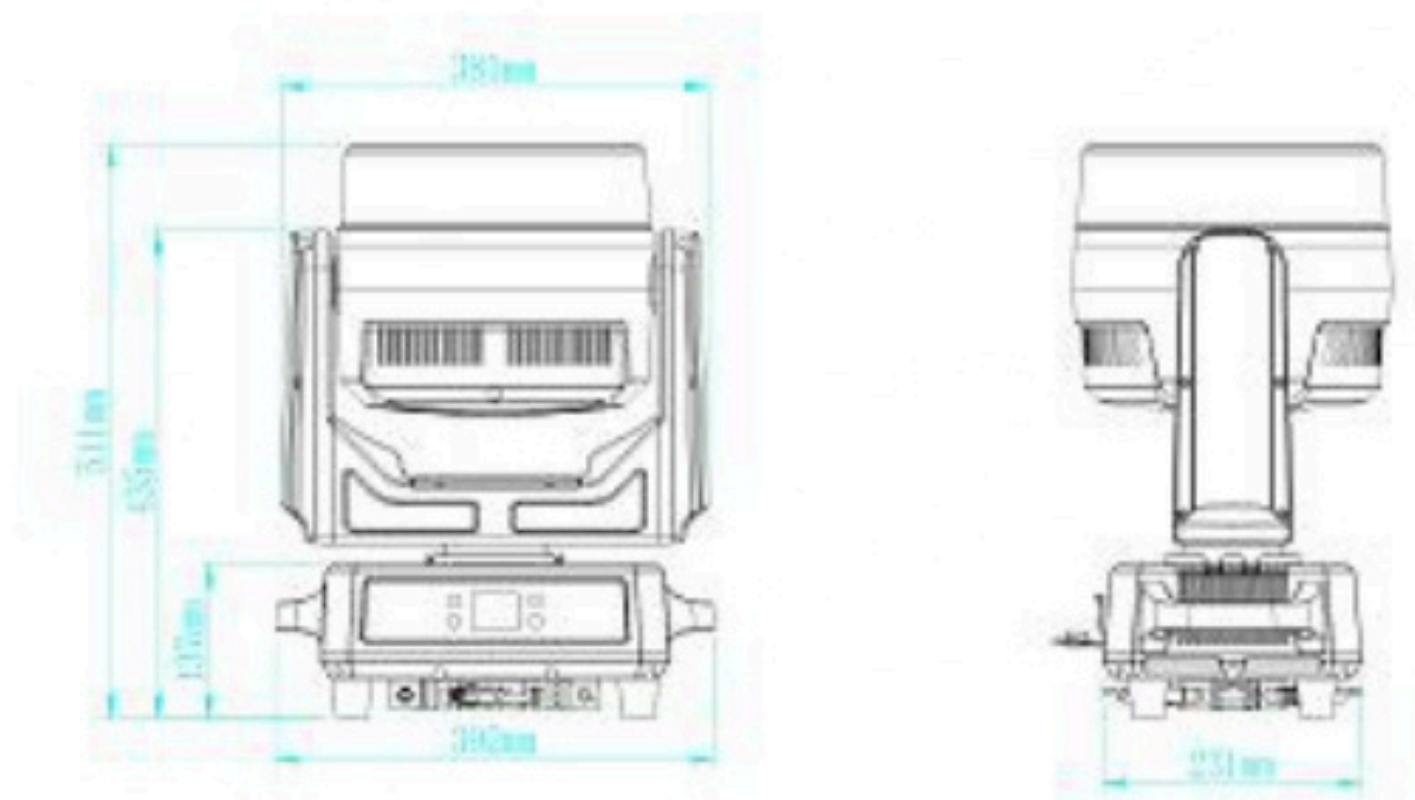
Carton Packing Size: 470*320*620mm

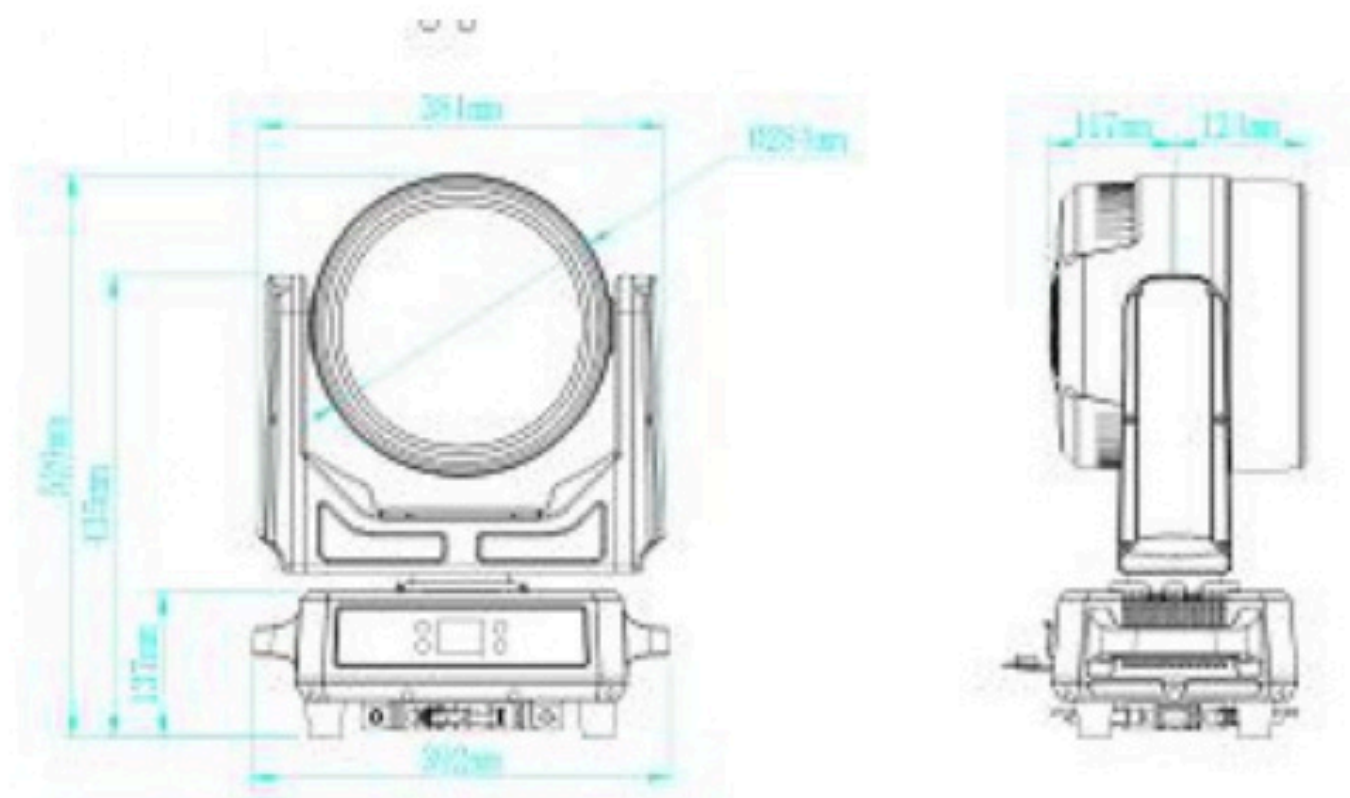
Weight

Net Weight: 21Kgs

Gross Weight: 23.7Kgs

Product Dimensions View:





3.How to Control The Device

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 (+)

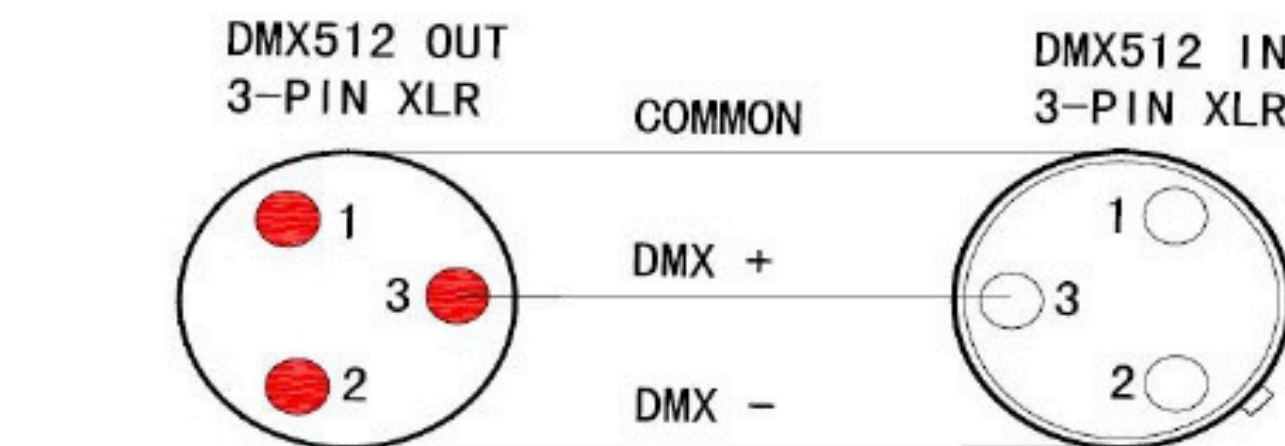
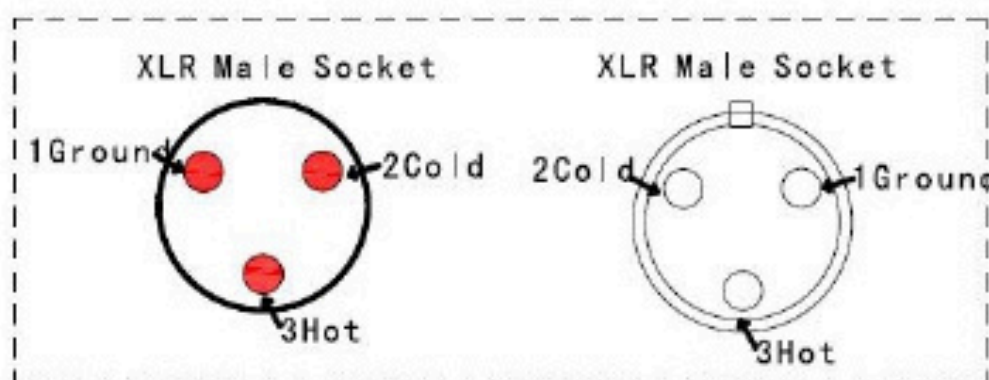


Figure2



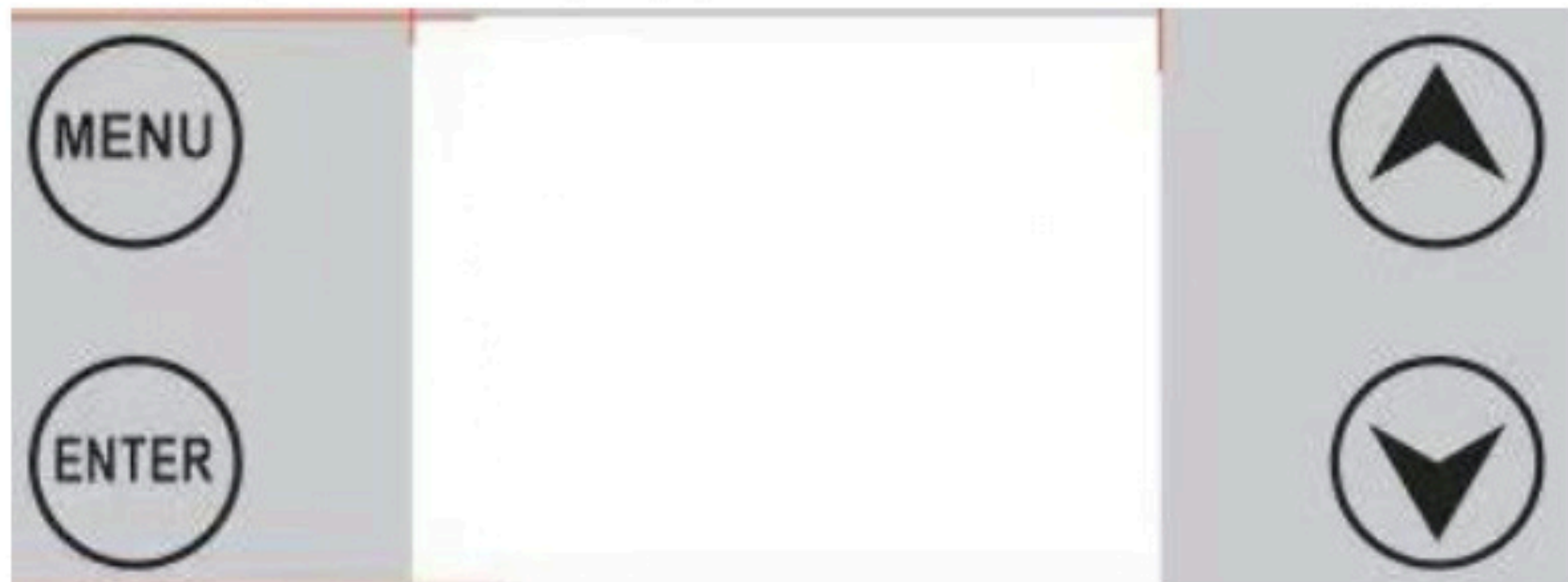
XLR Pin Configuration
pin1=Ground
pin2=Data Compliment (negative)
pin3=Data true (positive)

Display:

- MENU To select the programming functions
- 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

Main menu	Secondary menu	Three-level menu / parameters
Address	001 - 512	(Increase the number of channels each time, decrease normal)
System Settings	Operation modes	Operation modes: DMX/ Voice Control/Auto 1/ Auto 2
	Channel mode	BASIC 24CH / STAND 44CH / EXTEND 48CH / EXTEND2 113CH

	Art-Net Set		
	Horizontal reversal	Open / Off	
	Vertical reversal	Open / Off	
	Hall error correction	Open / Off	
	Optocoupler error correction	Open / Off	
	Signal hold	Open / Off	
	Screen saver	Open / Off	
	Screen overturn	On/Off/Automatic	
	Synchronous update	Open / Off	
	Language	中/EN	
	Dimming speed	Standard/Fast	
	Dimming curve	Curve 1 Curve 2 Curve 3 Curve 4	
	Dimming frequency	6K 4K 1K 25K 20K 15K 10K	
	Screen lock	Open / Off	
	factory data reset		
Manual mode	The current channel mode	0-255	
System calibration	Enter the password	Luminaire calibration	
System reset	Effect motor reset		
	Scan motor reset		
	Reset all motors		
System information	Reset information	Display a reset error message	
	DMX data monitoring	Receive the channel value of the control console	
	Sensor information	Hall information	
		Pan optocoupler information	
		Tilt optocoupler information	
Hardware version	Display hardware version		

Automatic screen rotation function

The system can automatically rotate the screen according to the direction of gravity without the need for manual rotation. The automatic rotation function can also be turned off.

Manual control

This interface is used to control the current lamp.

Press the "OK" key to enter the editing state. Press the "Up" and "Down" keys to change the channel value. Press "OK" again to save the modified value and exit the editing. Pressing "Exit" will not save the modified value and directly exit the editing.

System calibration

A password is set here to prevent non-professionals from making accidental operations. Just press the "OK" key directly to verify the password.

Option	Description
Initial position calibration	After entering the sub-interface, the starting positions of the X-axis, Y-axis, and focusing motor can be adjusted to compensate for hardware installation errors. The adjustment range is 0 to 255, and 127 indicates no adjustment.
Itinerary calibration	After entering the sub-interface, you can adjust the travel of the X-axis, Y-axis, and focusing motor. The adjustment range is 0 to 255. 127 indicates no adjustment.
Dynamics calibration	After entering the sub-interface, the force of the X-axis, Y-axis and other motors can be adjusted. The adjustment range is 0 to 255. 127 indicates no adjustment.
Other calibration	MIC sensitivity calibration and password modification.

Reset

Press the "Up" and "Down" keys to switch the reset mode. Press "OK" to reset directly.

Option	Description
Effect motor reset	Reset the effect expect pan and tilt
Scan motor reset	Pan Tilt reset
All motor reset	Fixture reset

System Info

Option	Description
Reset info	If the red ERR indicator light is on, it indicates that the lamp is operating incorrectly. For detailed information, you can enter the sub-interface from here to view.
DMX data monitoring	From here enter the sub-interface, where the channel values are displayed in numerical form for viewing
Sensor info	Real-time monitoring of the status of sensors such as optocouplers and Hall sensors on the light
Hardware version number	Lighting hardware information
Software version number	Lighting software version

4. DMX Channel Table

DMX 512 24CHs ZM16 Argo FX IP

24CH	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	P/T Speed	0-255	P/T Speed Fast And Slow
6	Background Red	0-255	Background Red (0 - 100%)
7	Background Red Fine	0-255	Background Red Fine (0-100%)
8	Background Green	0-255	Background Green (0 - 100%)
9	Background Green Fine	0-255	Background Green Fine (0-100%)
10	Background Blue	0-255	Background Blue (0 - 100%)
11	Background Blue Fine	0-255	Background Blue Fine (0 - 100%)
12	Background Lemon	0-255	Background Lemon (0 - 100%)
13	Background Lemon Fine	0-255	Background Lemon Fine (0 - 100%)
14	Flash	0-31	Turn Off The Light
		32-63	Open The Light

		64-95	Flash From Slow To Fast
		96-127	Open The Light
		128-159	The Pulse Flicker Increases In Speed.
		160-191	Open The Light
		192-223	Random flash
		224-255	Open The Light
15	Dimmer	0-255	Dimming(0%~100%)
16	Dimming Fine	0-255	Dimming(0%~100%)
17	CTO	0-21	No function
		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	
18	Color Presets	0-255	Color Presets
19	Color presets / RGBL cross fade in/out	0	Output is controlled by RGBL values.
		1-254	Crossfade in/out between RGBL settings and color preset channels
		255	Colors are controlled by color presets.
20	Color preset cross fade in/out	0-4	No function
		5-255	Two-color preset cross-gradient ranging from 100 milliseconds to 5 seconds
21	Zoom	0-255	Zoom
22	Zoom Fine	0-255	Zoom Fine
23	Reserved	0-255	Reserved
24	Reset/Internal Function	0-4	No function
		5-9	Power Off The Screen
		10-14	Open The Screen
		15-19	Display Reverse Off
		20-24	Display Reverse Open
		45-49	Linear Dimming Curve
		50-54	Dimming Curve Square
		55-57	1K

		58-60	2.5K
		61-63	6K
		64-69	10K
		80-84	All Motors Reset
		85-87	P/T Motor Reset
		88-90	Amplifying Motor Reset

DMX 512 44CHs ZM16 Argo FX IP

44CH	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	P/T Speed	0-255	P/T Speed Fast And Slow
6	Background Red	0-255	Background Red (0 - 100%)
7	Background Red Fine	0-255	Background Red Fine (0-100%)
8	Background Green	0-255	Background Green (0 - 100%)

9	Background Green Fine	0-255	Background Green Fine (0-100%)
10	Background Blue	0-255	Background Blue (0 - 100%)
11	Background Blue Fine	0-255	Background Blue Fine (0 - 100%)
12	Background Lemon	0-255	Background Lemon (0 - 100%)
13	Background Lemon Fine	0-255	Background Lemon Fine (0 - 100%)
14	Flash	0-31	Turn Off Light
		32-63	Open The Light
		64-95	Flash From Slow To Fast
		96-127	Open The Light
		128-159	The Pulse Flicker Increases In Speed.
		160-191	Open The Light
		192-223	Random flash
		224-255	Open The Light

15	Dimmer	0-255	Dimming(0%~100%)
16	Dimming Fine	0-255	Dimming(0%~100%)
17	CTO	0-21	No function
		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	
18	Color Presets	0-255	Color Presets
19	Color presets / RGBL cross fade in/out	0	Output is controlled by RGBL values.
		1-254	Crossfade in/out between RGBL settings and color preset channels
		255	Colors are controlled by color presets.
20	Color preset	0-4	No function

	cross fade in/out	5-255	Two-color preset cross-gradient ranging from 100 milliseconds to 5 seconds
21	Zoom	0-255	Zoom
22	Zoom Fine	0-255	Zoom Fine
23	Reserved	0-255	Reserved
24	Reset/Internal Function	0-4	No function
		5-9	Power Off The Screen
		10-14	Open The Screen
		15-19	Display Reverse Off
		20-24	Display Reverse Open
		45-49	Linear Dimming Curve
		50-54	Dimming Curve Square
		55-57	1K
		58-60	2.5K
		61-63	6K
		64-69	10K
		80-84	All Motors Reset
		85-87	P/T Motor Reset
88-90	Amplifying Motor Reset		
25	Main LED Effect	0--9	No Function
		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	Reserve
26	Main LED Effect Speed	0-125	Main Effect Speed Forward, from Fast to Slow
		126-130	Stop
		131-255	Main effect speed reverse, from slow to fast

27	Main LED Effect Fade	0-255	Main Effect Fade Function (0-100%)
28	Main LED Effect Length	0-255	Main Effect Length Function
29	Main LED Effect Red	0-255	Main Effect Red (0-100%)
30	Main LED Effect Green	0-255	Main Effect Green (0-100%)
31	Main Effect Blue	0-255	Main Effect Blue (0-100%)
32	Main Effect Lemon	0-255	Main Effect Lemon (0-100%)
33	Main LED Effect Dimmer	0-255	Main Effect Dimmer (0-100%)
34	Main LED Background Dimmer	0-255	Main LED Background Dimmer (0-100%)
35	Main LED Effect Flash	0-31	Turn Off
		32-63	Light On
		64-95	Flash speed from slow to fast
		96-127	Light On
		128-159	Pulse Flash from slow to fast
		160-191	Light On
		192-223	Random Flash
		224-255	Light On
36	Main LED Control	0-255	Crossfade between RGBL settings and single color channels

37	Main LED Red Ring 1	0-255	Main Red Ring 1 (0-100%)
38	Main LED Green Ring 1	0-255	Main Green Ring 1 (0-100%)
39	Main LED Blue Ring 1	0-255	Main Blue Ring 1 (0-100%)
40	Main LED Lemon Ring 1	0-255	Main Lemon Ring 1 (0-100%)
41	Main LED Red Ring 2	0-255	Main Red Ring 2 (0-100%)
42	Main LED Green Ring 2	0-255	Main Green Ring 2 (0-100%)
43	Main LED Blue Ring 2	0-255	Main Blue Ring 2 (0-100%)
44	Main LED Lemon Ring 2	0-255	Main Lemon Ring 2 (0-100%)

DMX 512 48CHs ZM16 Argo FX IP

48CH	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	P/T Speed	0-255	P/T Speed Fast And Slow

6	Background Red	0-255	Background Red (0 - 100%)
7	Background Red Fine	0-255	Background Red Fine (0-100%)
8	Background Green	0-255	Background Green (0 - 100%)
9	Background Green Fine	0-255	Background Green Fine (0-100%)
10	Background Blue	0-255	Background Blue (0 - 100%)
11	Background Blue Fine	0-255	Background Blue Fine (0 - 100%)
12	Background Lemon	0-255	Background Lemon (0 - 100%)
13	Background Lemon Fine	0-255	Background Lemon Fine (0 - 100%)
14	Flash	0-31	Turn Off The Light
		32-63	Open The Light
		64-95	Flash From Slow To Fast
		96-127	Open The Light
		128-159	The Pulse Flicker Increases In Speed.

		160-191	Open The Light
		192-223	Random flash
		224-255	Open The Light
15	Dimmer	0-255	Dimming (0%~100%)
16	Dimming Fine	0-255	Dimming (0%~100%)
17	CTO	0-21	No function
		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	

18	Color Presets	0-255	Color Presets
19	Color presets / RGBL cross fade in/out	0-125	Output is controlled by RGBL values.
		126-130	Crossfade in/out between RGBL settings and color preset channels
		131-255	Colors are controlled by color presets.
20	Color preset cross fade in/out	0-4	No function
		5-255	Two-color preset cross-gradient ranging from 100 milliseconds to 5 seconds
21	Zoom	0-255	Zoom
22	Zoom Fine	0-255	Zoom Fine
23	Reserved	0-255	Reserved
24	Reset/Internal Function	0-4	No function
		5-9	Power Off The Screen
		10-14	Open The Screen
		15-19	Display Reverse Off
		20-24	Display Reverse Open
		45-49	Linear Dimming Curve
		50-54	Dimming Curve Square
		55-57	1K
		58-60	2.5K
		61-63	6K
		64-69	10K
		80-84	All Motors Reset

		85-87	P/T Motor Reset
		88-90	Amplifying Motor Reset
25	Main LED Effect	0--9	No Function
		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	Reserve
26	Main LED Effect Speed	0-125	Main Effect Speed Forward, from Fast to Slow
		126-130	Stop
		131-255	Main effect speed reverse, from slow to fast
27	Main LED Effect Fade	0-255	Main Effect Fade Function (0-100%)
28	Main LED Effect Length	0-255	Main Effect Length Function
29	Main LED Effect Red	0-255	Main Effect Red (0-100%)
30	Main LED Effect Green	0-255	Main Effect Green (0-100%)
31	Main Effect Blue	0-255	Main Effect Blue (0-100%)
32	Main Effect Lemon	0-255	Main Effect Lemon (0-100%)
33	Main LED Effect Dimmer	0-255	Main Effect Dimmer (0-100%)
34	Main LED Background Dimmer	0-255	Main LED Background Dimmer (0-100%)
35	Main LED Effect Flash	0-31	Turn Off
		32-63	Light On
		64-95	Flash speed from slow to fast
		96-127	Light On
		128-159	Pulse Flash from slow to fast

		160-191	Light On
		192-223	Random Flash
		224-255	Light On
36	Halo LED Control	0-255	No Function
37	Halo LED Dimmer	0-255	Halo LED Dimmer (0-100%)
38	Halo LED Dimming Fine Tune	0-255	Halo LED Dimming Fine Tune (0-100%)
39	Halo LED Effect Red	0-255	Halo LED Effect Red (0-100%)
40	Halo LED Effect Green	0-255	Halo LED Effect Green (0-100%)
41	Halo LED Effect Blue	0-255	Halo LED Effect Blue (0-100%)
42	Halo LED Effect	0-9	No Function
		10-205	Effect 1-97 (one effect every 2 numbers)
		206-255	Effect 98
43	Halo LED Effect Speed	0-130	Halo LED effect speed forward, from fast to slow
		131-255	Halo LED effect speed reverse, from slow to fast
44	Reserve	0-255	No Function
45	Halo LED Effect Background Dimmer	0-255	Halo LED Effect Background Dimmer (0-100%)
46	Halo LED	0-255	Halo LED Effect Background Red (0-100%)

	Effect Background Red		
47	Halo LED Effect Background Green	0-255	Halo LED Effect Background Green (0-100%)
48	Halo LED Effect Background Blue	0-255	Halo LED Effect Background Blue (0-100%)

DMX 512 113CHs ZM16 Argo FX IP

113CH	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	P/T Speed	0-255	P/T Speed Fast And Slow
6	Background Red	0-255	Background Red (0 - 100%)
7	Background Red Fine	0-255	Background Red Fine (0-100%)

8	Background Green	0-255	Background Green (0 - 100%)
9	Background Green Fine	0-255	Background Green Fine (0-100%)
10	Background Blue	0-255	Background Blue (0 - 100%)
11	Background Blue Fine	0-255	Background Blue Fine (0 - 100%)
12	Background Lemon	0-255	Background Lemon (0 - 100%)
13	Background Lemon Fine	0-255	Background Lemon Fine (0 - 100%)
14	Flash	0-31	Turn Off The Light
		32-63	Open The Light
		64-95	Flash From Slow To Fast
		96-127	Open The Light
		128-159	The Pulse Flicker Increases In Speed.
		160-191	Open The Light
		192-223	Random flash

		224-255	Open The Light
15	Dimmer	0-255	Dimming(0%~100%)
16	Dimming Fine	0-255	Dimming (0%~100%)
17	CTO	0-21	No function
		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	
18	Color Presets	0-255	Color Presets
19	Color presets / RGBL cross fade in/out	0-125	Output is controlled by RGBL values.
		126-130	Crossfade in/out between RGBL settings and color preset channels

		131-255	Colors are controlled by color presets.
20	Color preset cross fade in/out	0-4	No function
		5-255	Two-color preset cross-gradient ranging from 100 milliseconds to 5 seconds
21	Zoom	0-255	Zoom
22	Zoom Fine	0-255	Zoom Fine
23	Reserved	0-255	Reserved
24	Reset/Internal Function	0-4	No function
		5-9	Power Off The Screen
		10-14	Open The Screen
		15-19	Display Reverse Off
		20-24	Display Reverse Open
		45-49	Linear Dimming Curve
		50-54	Dimming Curve Square
		55-57	1K
		58-60	2.5K
		61-63	6K
		64-69	10K
		80-84	All Motors Reset
		85-87	P/T Motor Reset
88-90	Amplifying Motor Reset		
25	Main LED	0-9	No Function

	Effect	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	Reserve
26	Main LED	0-125	Main Effect Speed Forward, from Fast to Slow

	Effect Speed	126-130	Stop
		131-255	Main effect speed reverse, from slow to fast
27	Main LED Effect Fade	0-255	Main Effect Fade Function (0-100%)
28	Main LED Effect Length	0-255	Main Effect Length Function
29	Main LED Effect Red	0-255	Main Effect Red (0-100%)
30	Main LED Effect Green	0-255	Main Effect Green (0-100%)
31	Main Effect Blue	0-255	Main Effect Blue (0-100%)
32	Main Effect Lemon	0-255	Main Effect Lemon (0-100%)
33	Main LED Effect Dimmer	0-255	Main Effect Dimmer (0-100%)
34	Main LED Background Dimmer	0-255	Main LED Background Dimmer (0-100%)
35	Main LED Effect Flash	0-31	Turn Off
		32-63	Light On
		64-95	Flash speed from slow to fast
		96-127	Light On
		128-159	Pulse Flash from slow to fast
		160-191	Light On
		192-223	Random Flash
		224-255	Light On

36	Halo LED Control	0-255	No Function
37	Halo LED Dimmer	0-255	Halo LED Dimmer (0-100%)
38	Halo LED Dimming Fine Tune	0-255	Halo LED Dimming Fine Tune (0-100%)
39	Halo LED Effect Red	0-255	Halo LED Effect Red (0-100%)
40	Halo LED Effect Green	0-255	Halo LED Effect Green (0-100%)
41	Halo LED Effect Blue	0-255	Halo LED Effect Blue (0-100%)
42	Halo LED Effect	0-9	No Function
		10-205	Effect 1-97 (one effect every 2 numbers)
		206-255	Effect 98
43	Halo LED Effect Speed	0-130	Halo LED effect speed forward, from fast to slow
		131-255	Halo LED effect speed reverse, from slow to fast
44	Reserve	0-255	No Function
45	Halo LED Effect Background Dimmer	0-255	Halo LED Effect Background Dimmer (0-100%)
46	Halo LED Effect Background Red	0-255	Halo LED Effect Background Red (0-100%)
47	Halo LED Effect	0-255	Halo LED Effect Background Green (0-100%)

	Background Green		
48	Halo LED Effect Background Blue	0-255	Halo LED Effect Background Blue (0-100%)
49	Main LED Control	0-255	Crossfade between RGBL settings and single color channels
50	Main LED Red Ring 1	0-255	Main Red Ring 1 (0-100%)
51	Main LED Green Ring 1	0-255	Main Green Ring 1 (0-100%)
52	Main LED Blue Ring 1	0-255	Main Blue Ring 1 (0-100%)
53	Main LED Lemon Ring 1	0-255	Main Lemon Ring 1 (0-100%)
54	Main LED Red Ring 2	0-255	Main Red Ring 2 (0-100%)
55	Main LED Green Ring 2	0-255	Main Green Ring 2 (0-100%)
56	Main LED Blue Ring 2	0-255	Main Blue Ring 2 (0-100%)
57	Main LED Lemon Ring 2	0-255	Main Lemon Ring 2 (0-100%)
58	Main LED Red Ring 3	0-255	Main Red Ring 3 (0-100%)
59	Main LED Green Ring 3	0-255	Main Green Ring 3 (0-100%)
60	Main LED Blue Ring 3	0-255	Main Blue Ring 3 (0-100%)
61	Main LED	0-255	Main Lemon Ring 3 (0-100%)

	Lemon Ring 3		
62	Main LED Red Ring 4	0-255	Main Red Ring 4 (0-100%)
63	Main LED Green Ring 4	0-255	Main Green Ring 4 (0-100%)
64	Main LED Blue Ring 4	0-255	Main Blue Ring 4 (0-100%)
65	Main LED Lemon Ring 4	0-255	Main Lemon Ring 4 (0-100%)
67	Main LED Red Ring 5	0-255	Main Red Ring 5 (0-100%)
68	Main LED Green Ring 5	0-255	Main Green Ring 5 (0-100%)
69	Main LED Blue Ring 5	0-255	Main Blue Ring 5 (0-100%)
70	Main LED Lemon Ring 5	0-255	Main Lemon Ring 5 (0-100%)
71	Main LED Red Ring 6	0-255	Main Red Ring 6 (0-100%)
72	Main LED Green Ring 6	0-255	Main Green Ring 6 (0-100%)
73	Main LED Blue Ring 6	0-255	Main Blue Ring 6 (0-100%)
74	Main LED Lemon Ring 6	0-255	Main Lemon Ring 6 (0-100%)
75	Main LED Red Ring 7	0-255	Main Red Ring 7 (0-100%)
76	Main LED Green Ring 7	0-255	Main Green Ring 7 (0-100%)
77	Main LED Blue Ring 7	0-255	Main Blue Ring 7 (0-100%)

78	Main LED Lemon Ring 7	0-255	Main Lemon Ring 7 (0-100%)
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106	Main LED Red Ring 15	0-255	Main Red Ring 15 (0-100%)
107	Main LED Green Ring 15	0-255	Main Green Ring 15 (0-100%)
108	Main LED Blue Ring 15	0-255	Main Blue Ring 15 (0-100%)
109	Main LED Lemon Ring 15	0-255	Main Lemon Ring 15 (0-100%)
110	Main LED Red Ring 16	0-255	Main Red Ring 16 (0-100%)
111	Main LED Green Ring 16	0-255	Main Green Ring 16 (0-100%)
112	Main LED Blue Ring 16	0-255	Main Blue Ring 16 (0-100%)
113	Main LED Lemon Ring 16	0-255	Main Lemon Ring 16 (0-100%)

5.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.

6. 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.**



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