



## FOS Linear Zoom



This manual contains important information.  
Please read before operating fixture.

# 1. Safety measures

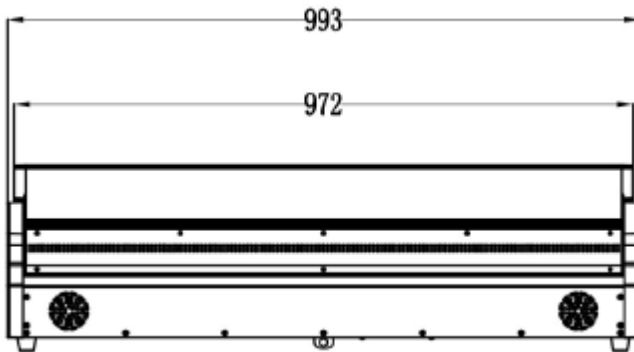
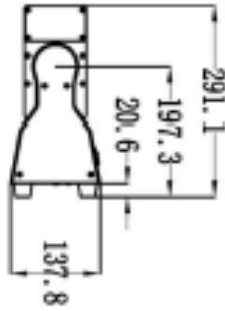
**WARNING!!! To reduce the risk of fire, electric shock, or injury to persons, follow these important safety instructions:**

- non-professionals, not to disassemble the light arbitrarily and lighting accessories inside.
- rated voltage range: AC110V-120V/60Hz or AC200V-240V / 50HZ (to be selected).
- not beam irradiate the flammable materials, flammable materials and the lamp should be maintained at least 1M over the distance.
- lamps used in ambient temperature: -15 °C -40 °C , the highest temperature of the surface of the lamp: 60 °C .
- to keep away from the liquid substance and humid environment.
- before using the lights must ensure the good grounding, can not install charging and remove any parts.
- the installation of lamps, must be fixed screw fasteners with additional security cable and regular inspection.
- lamps consecutive working hours is not recommended more than 10 hours.
- should stop using the lights in time when happens unusual conditions during the process
- lamp parts of the rotation, external accessories and paste parts should be regular inspected, such as the emergence of loose and rock, should be reinforced in a timely manner to prevent the accident.
- lamps adopt strong winds to refrigerate, it is easy to accumulate the dust, so you have to clean it weekly especially the cooling air opening, otherwise the dust will plug leading to poor light

## 2. Technical Specifications

- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption: 600W
- LED Source: 18x 40W RGBW LED multichip
- Zoom: 4° - 45°
- Channel: 16CH/27CH/76CH/88CH
- LED life expectancy: min. 20.000 hours
- Color mixing mode RGBW
- Individual control of each RGBW pixel
- Variable CTO: 2.700K - 8.000K
- Motorized zoom
- 2 independent zoom zones
- Pre-programmed random strobe & pulse effects Electronic strobe effect with variable speed up to 20 Hz High resolution electronic dimming: 0 - 100%
- Tilt movement: 205°
- 16 bit movement resolution
- Power in/out connector: PowerCON in/out
- DMX in/out: Locking 5-pin/3-pin XLR
- Product Dimensions:993x137.8x291.1mm

### 3. Dimensions



## 4. On board menu

- Address: 001 – 512
- Run: DMX 512, Auto, Sound
- DMX Mode: 16, 27, 76 & 88 Channels
- Test: All
- Set: Display, Signal Keep, Slave, English
- Manual control:
  - Tilt: 000 - 255
  - Zoom 1: 000 – 255
  - Zoom 2: 000 – 255
  - Red: 000 – 255
  - Green: 000 – 255
  - Blue: 000 – 255
  - White: 000 – 255
  - Strobe: 000 – 255
- Reset

## 5. DMX Channels

### 16 Channels

1	0 – 255	Tilt movement 205
2	0 - 255	Tilt Fine
3	0 – 255	Zoom 1
4	0 – 255	Zoom 2
5	0 – 255	Dimmer
6	0 – 19	Shutter Open
	20 – 255	Strobe slow to fast

7	0 – 255	Red
8	0 – 255	Green
9	0 – 255	Blue
10	0 – 255	White
11	0 – 10	No function
	11 – 30	Color 1
	31 – 50	Color 2
	51 – 70	Color 3
	71 – 90	Color 4
	91 – 110	Color 5
	111 – 130	Color 6
	131 – 150	Color 7
	151 – 170	Color 8
	171 – 200	Color 9
	201 – 205	Macro 1
	206 – 210	Macro 2
	211 – 215	Macro 3
	216 – 220	Macro 4
	221 – 225	Macro 5
	226 – 230	Macro 6
	231 – 235	Macro 7
	236 – 240	Macro 8
	241 - 245	Macro 9
	246 – 250	Macro 10
	251 – 255	Macro 11

12	0 – 255	Foreground Dimmer 0 – 100%
13	0 – 10	No function
	11 – 255	Background color
14	0 – 255	Background Dimmer 0 – 100%
15	0 – 10	No function
	11 – 15	Show 1
	16 – 20	Show 2
	21 – 25	Show 3
	26 – 30	Show 4
	31 – 35	Show 5
	36 – 40	Show 6
	41 – 45	Show 7
	46 – 50	Show 8
	51 – 55	Show 9
	56 – 60	Show 10
	61 – 65	Show 11
	66 – 70	Show 12
	71 – 75	Show 13
	76 – 80	Show 14
	81 – 85	Show 15
	86 – 90	Show 16
	91 – 95	Show 17
	96 – 100	Show 18
	101 – 105	Show 19
	106 – 110	Show 20
	111 – 115	Show 21
116 – 120	Show 22	

	121 – 125	Show 23
	126 - 130	Show 24
	131 – 135	Show 25
	136 – 140	Show 26
	141 – 145	Show 27
	146 – 150	Show 28
	151 – 155	Show 29
	156 – 160	Show 30
	161 – 165	Show 31
	166 – 170	Show 32
	171 – 175	Show 33
	176 – 180	Show 34
	181 – 185	Show 35
	186 – 190	Show 36
	191 – 195	Show 37
	196 – 200	Show 38
	201 – 205	Show 39
	206 – 210	Show 40
	211 – 215	Show 41
	216 – 220	Show 42
	221 – 235	Show 43
	236 – 245	Sound 1
	246 – 255	Sound 2

16	0 – 127	Show speed with tilt movement
	128 – 254	Show speed without tilt movement
	255	Reset



## 27 Channels

1	0 – 255	Tilt movement 205
2	0 - 255	Tilt Fine
3	0 – 255	Zoom 1
4	0 – 255	Zoom 2
5	0 – 255	Dimmer
6	0 – 19	Shutter Open
	20 – 255	Strobe slow to fast
7 through 24	0 – 10	Off
	11 – 25	Red
	26 – 40	Green
	41 – 55	Blue
	56 – 70	White
	71 – 85	Red + Green
	86 – 100	Red + Blue
	101 – 115	Green + Blue
	116 – 130	Red + White
	131 – 145	Green + White
	146 – 160	Blue + White
	161 – 175	Red + Green + White
	176 – 190	Red + Blue + White
	191 – 205	Green + Blue + White
	206 – 255	Red + Green + Blue + White

25	0 – 255	Background Dimmer 0 – 100%
26	0 – 10	No function
	11 – 15	Show 1
	16 – 20	Show 2
	21 – 25	Show 3
	26 – 30	Show 4
	31 – 35	Show 5
	36 – 40	Show 6
	41 – 45	Show 7
	46 – 50	Show 8
	51 – 55	Show 9
	56 – 60	Show 10
	61 – 65	Show 11
	66 – 70	Show 12
	71 – 75	Show 13
	76 – 80	Show 14
	81 – 85	Show 15
	86 – 90	Show 16
	91 – 95	Show 17
	96 – 100	Show 18
	101 – 105	Show 19
	106 – 110	Show 20
	111 – 115	Show 21
116 – 120	Show 22	

27	0 – 127	Show speed with tilt movement
	128 – 254	Show speed without tilt movement
	255	Reset

## 76 Channels

1	0 – 255	Tilt Movement
2	0 – 255	Tilt Fine
3	0 – 255	Zoom 1
4	0 – 255	Zoom 2
5	0 – 255	LED 1 Red
6	0 – 255	LED 1 Green
7	0 – 255	LED 1 Blue
8	0 – 255	LED 1 White
...	...	...
73	0 – 255	LED 18 Red
74	0 – 255	LED 18 Green
75	0 – 255	LED 18 Blue
76	0 – 255	LED 18 White

# 88 Channels

1	0 – 255	Tilt movement 205
2	0 - 255	Tilt Fine
3	0 – 255	Zoom 1
4	0 – 255	Zoom 2
5	0 – 255	Dimmer
6	0 – 19	Shutter Open
	20 – 255	Strobe slow to fast
7	0 – 255	Red
8	0 – 255	Green
9	0 – 255	Blue
10	0 – 255	White
11	0 – 10	No function
	11 – 30	Color 1
	31 – 50	Color 2
	51 – 70	Color 3
	71 – 90	Color 4
	91 – 110	Color 5
	111 – 130	Color 6
	131 – 150	Color 7
	151 – 170	Color 8
	171 – 200	Color 9
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12	0 – 255	Foreground Dimmer 0 – 100%
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14	0 – 255	Background Dimmer 0 – 100%
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	11 – 15	Show 1
	16 – 20	Show 2
	21 – 25	Show 3
	26 – 30	Show 4
	31 – 35	Show 5
	36 – 40	Show 6
	41 – 45	Show 7
	46 – 50	Show 8
	51 – 55	Show 9
	56 – 60	Show 10
61 – 65	Show 11	

	66 – 70	Show 12
	71 – 75	Show 13
	76 – 80	Show 14
	81 – 85	Show 15
	86 – 90	Show 16
	91 – 95	Show 17
	96 – 100	Show 18
	101 – 105	Show 19
	106 – 110	Show 20
	111 – 115	Show 21
	116 – 120	Show 22
	121 – 125	Show 23
	126 - 130	Show 24
	131 – 135	Show 25
	136 – 140	Show 26
	141 – 145	Show 27
	146 – 150	Show 28
	151 – 155	Show 29
	156 – 160	Show 30
	161 – 165	Show 31
	166 – 170	Show 32
	171 – 175	Show 33
	176 – 180	Show 34
	181 – 185	Show 35
	186 – 190	Show 36
	191 – 195	Show 37
	196 – 200	Show 38
	201 – 205	Show 39
	206 – 210	Show 40
	211 – 215	Show 41
	216 – 220	Show 42
	221 – 235	Show 43

	236 – 245	Sound 1
	246 – 255	Sound 2

16	0 – 127	Show speed with tilt movement
	128 – 254	Show speed without tilt movement
	255	Reset

17	0 – 255	LED 1 Red
18	0 – 255	LED 1 Green
19	0 – 255	LED 1 Blue
20	0 – 255	LED 1 White
...	...	...
85	0 – 255	LED 18 Red
86	0 – 255	LED 18 Green
87	0 – 255	LED 18 Blue
88	0 – 255	LED 18 White

## 6. Fixing the fixture

Please fasten the fixture clamp before hanging. The clamp can be fastened by the little hole in the middle of the bracket, then tie with a safety belt. The loading capacity of the safety belt should be 10 times than the weight of the fixture itself.

## 7. DMX512 Connection

Please connect XLR-XLR control wire with every light from the output of DMX.

XLR connection :

DMX-OUTPUT



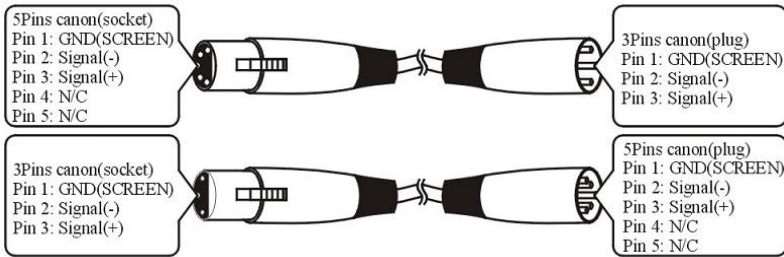
Pin 1: Screen  
Pin 2: Signal -  
Pin 3: Signal +

DMX-INPUT



Pin 1: Screen  
Pin 2: Signal -  
Pin 3: Signal +

ATTENTION: Please do remember to connect one circle circuit plug on the output signal of last equipment. And this circle circuit plug was connected a 120ohm resistance between terminals 2 and 3 of the CANON plug, connect this circle circuit plug can avoid the signal flash phenomena of signal DMX512 during the transmission.



## 8. Troubleshooting

Problems	Check list	Trouble Shooting
The fixture do not work	<ol style="list-style-type: none"> <li>1. If your power as same as the input of the machine.</li> <li>2. If the fuse was broken.</li> </ol>	<ol style="list-style-type: none"> <li>1. Make sure the voltage.</li> <li>2. Replace the same fuse.</li> </ol>



LED dimmed	If your power us same as the input of the machine	Make sure the voltage input.
No DMX input	<ol style="list-style-type: none"> <li>1. If the polarity is opposited in the DMX controller.</li> <li>2. If it is in DMX mode.</li> <li>3. If there are 2 Master in a loop.</li> </ol>	<ol style="list-style-type: none"> <li>1. Correct the DMX polarity.</li> <li>2. Change to the DMX mode.</li> <li>3. Set one piece into Slave mode.</li> </ol>
Par Light Set works abnormality	1. Check if the serial is correct on the Par Light display	1. Set the right serial No on the single Par Light

**Note:**

Based on our company continue to improve the product, the statement containing data may have changed, and will not notice the change any more. Company retains its right to change specifications related when product is improved. Thanks for your understanding.