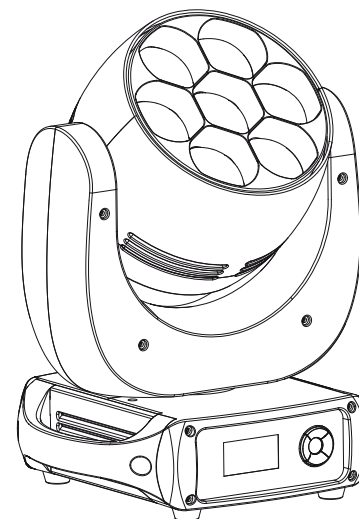




LEDING



DYNAMO 7
USER MANUAL

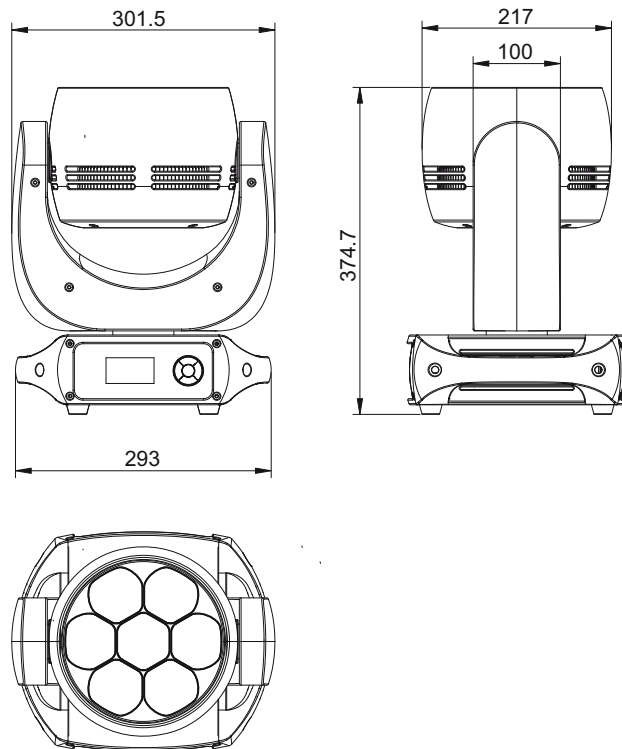
1 PRODUCT SPECIFICATIONS

1.1 PRODUCT SPECIFICATIONS

Electrical

- ◆ Voltage: AC100~240V, 50/60Hz
- ◆ Max Power: 300W
- ◆ Size: 375x302x251mm
- ◆ Weight: 9.3kg

1.2 PRODUCT FEATURES



1.3 SAFETY WARNING

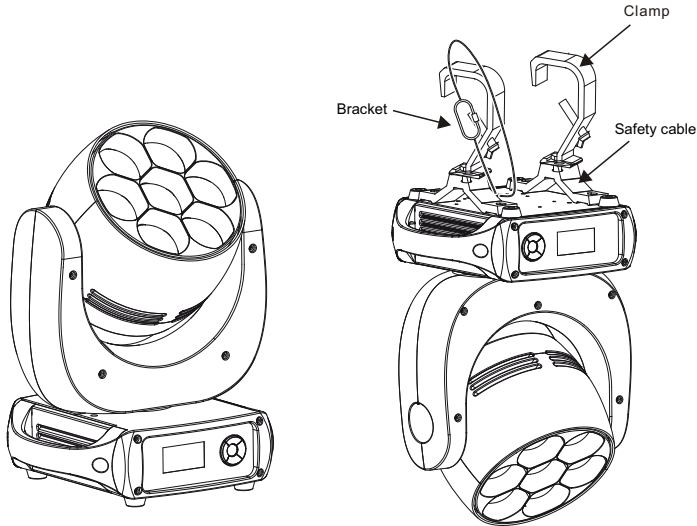
IMPORTANT:

- This product must be installed by a qualified professional.
- All maintenance must be carried out by a qualified electrician.
- A minimum distance of 0.5m must be maintained between the equipment and a combustible surface.
- The product must always be operated in a well ventilated area.
- DO NOT stare directly into the LED light source.
- Always disconnect the power before carrying out any maintenance.
- The earth must always be connected to the ground.
- Ensure that all parts of the equipment are kept clean and free of dust.

2 INSTALLATION

2.1 MOUNTING:

- The fixture can be mounted in any position.
- Always ensure that mounting surface can withstand 10 times the weight of the fixture.
- Always use a safety cable when mounting the fixture in any elevated position.

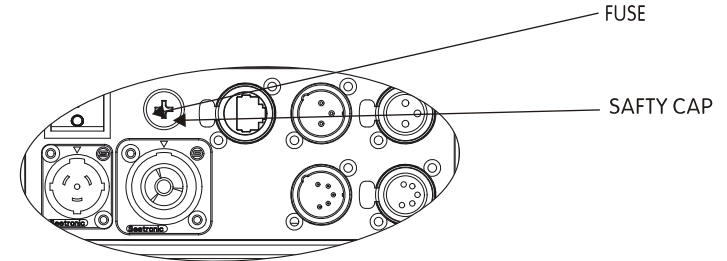


IMPORTANT SAFETY NOTE!!

Always use a safety cable when installing this unit!!
Be sure that the safety cable is connected to a solid load-bearing structure.

2.2 FUSE REPLACEMENT

- Remove the safety cap by a screwdriver.
- Fetch the old fuse from safety cap.
- Install a new fuse.
- Install the safety cap.



2.3 POWER CONNECTIONS

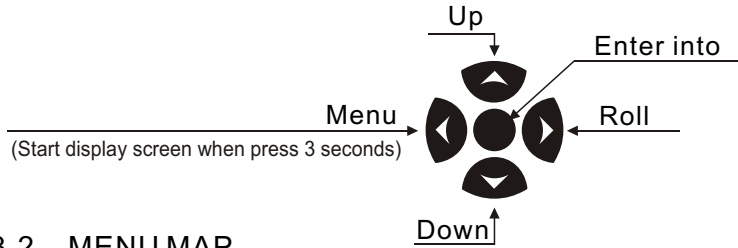
- 220~240V: 6 units may be connected in series
- 110~120V: 3 units may be connected in series

Note:

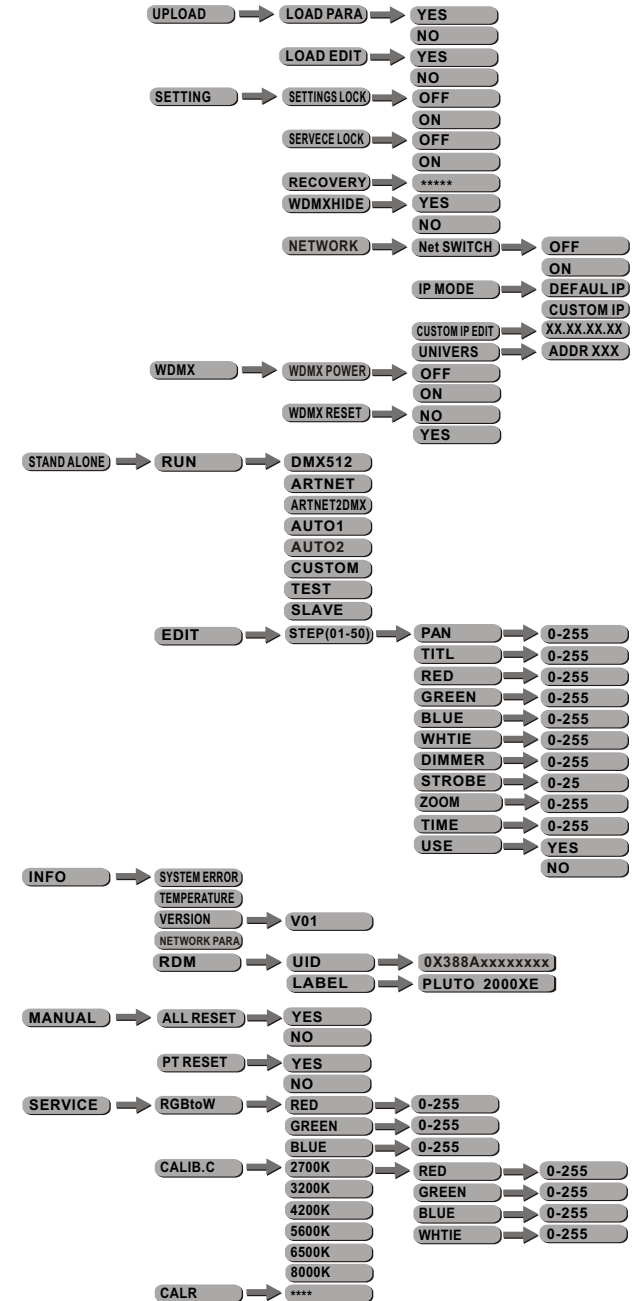
If the signal cable is over 60m between the DMX512 controller and fixture or between two fixtures, then a DMX signal amplifier is needed as well.

3 DISPLAY PANEL OPERATION

3.1 DISPLAY OPERATION



3.2 MENU MAP

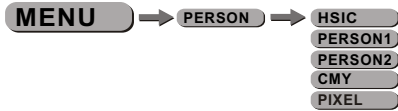


3.3 DMX512 SETTINGS



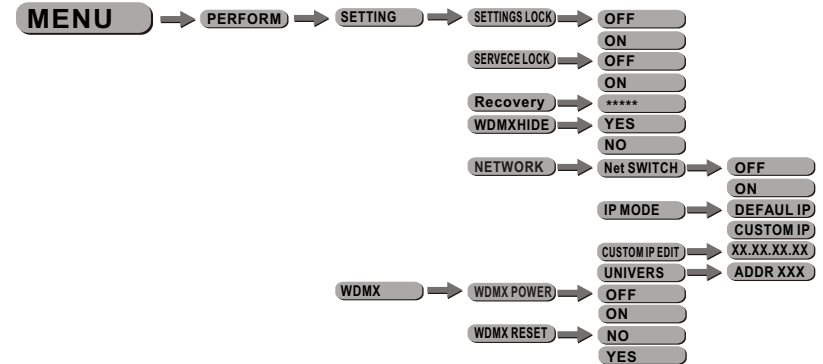
- Enter the **DMX** mode to set the DMX ADDRESS.

3.4 PERSONALITY



- Enter the **PERSON** mode to select DMX mode: **HSIC** , **PERSON1** , **PERSON2** , **CMY** , **PIXEL** ,

3.5 PERFORM



- **FANS** menu, select **Slow/Norm/Fast/Auto** as required fans speed.
- **PANINVERT** menu, select **NORM/INVERT** for normal/inverted control of the PAN function
- **TILTINVERT** menu, select **NORM/INVERT** for normal/inverted control of the TILT function
- **PT SPEED** menu, select **Slow/Fast** as required PAN/TILT movement speed.
- **BLACKD** menu, select **OFF** for immediate activation of PAN/TILT blackout when selected using the control channel or **ON** for 3 second delay before activation.
- **DIMMER** menu for selection of **DIM1/DIM2/DIM3/DIM4/OFF** special dimming curves
- **COLOR** is for activate/unactivate the color calibration functions. When **RGBtoW** is selected, on RGB = 255,255,255, the color is displayed as calibrated in Service -- RGBtoW. When **COLOR** is set **OFF**, on RGB = 255,255,255, the RGB values are not adjusted and the output is most powerful. When **UC** is selected, the RGB output are adjusted to a standard preset universal color which balances fixtures from different generations.
- **FULL POWER CCT** is the color temperature choose bottom, press UP/DOWN to choose, under full power, <3200K>、<4200K>、<5600K>、<10000K> can be chosen, when choose <COLOR>、<3200K>、<4200K>、<5600K>、<10000K> are not work, but choose <NORMAL>.
- **DMX ERROR** menu, select **SAVE** to maintain last command in case of DMX error or **BLACK** for blackout
- **DMX RESET** menu, select **DMX** to allow remote reset using DMX controller or **DISPLAY** for reset only available at on-fixture display
- **DISPLAY ON** menu, select **LONG/SHORT/DISPLAY LOCK** for length of time for display backlight
- **UPLOAD** upload data setting, choose **LOAD PARA** to upload data, choose **NO** means do not upload data choose **YES** means upload data, choose **LOAD EDIT** to program, choose **NO** means do not upload, choose **YES** means upload

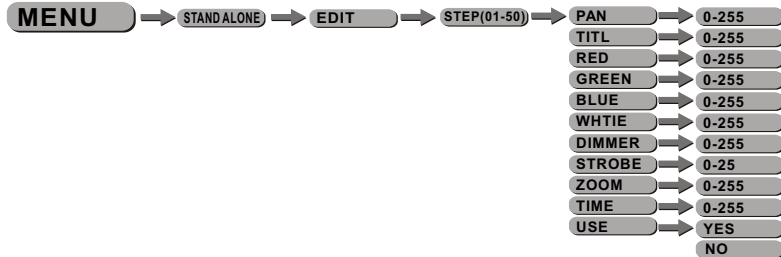
- **【SETTING】** is a protect bottom, **【 SETTINGS LOCK】** is the menu lock bottom, choose **【OFF】** means the menu lock bottom is off, choose **【ON】** means the menu lock bottom is on **【RECOVERY】** is the recover to default value. Press **【ENTER】** to password setting, press correct password **【UP+DOWN+UP+DOWN】** ,and press **【ENTER】** ,if password is correct, display will show **【OK】** ,
- **【NET SWTCH】** is net switch, OFF adhere to 2.XX.XX.XX , ON adhere to 2.XX.XX.XX, **【IP MODE】** is IP mode setting, "DEFAULT IP" is default IP, CUSTOM IP is user IP, **【CUSTOM IP SET】** is customer IP setting, **【UNIVERS】** is data bulk setting, output series 0-255
- **【WDMX】** setting , choose **【WDMX POWER】** to turn on/off the DMX , choose **【OFF】** to turn off it. **【ON】** to turn on it. Choose **【 WDMX RESET】** to reset the DMX , choose **【NO】** , then DMX will not reset , **【YES】** , then DMX will reset

3.6 RUN



- Enter the **【STANDALONE】** menu to select from **【DMX512/ARTNET/ARTNET2DMX/AUTO 1/AUTO 2/CUSTOM/TEST/SLAVE】** run modes

3.7 EDIT

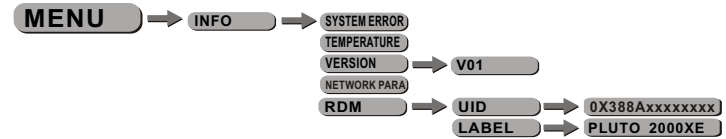


- Enter the **【 EDIT】** mode to edit the custom programs by adjusting the value of **【PAN】** , **【TILT】** , **【RED】** , **【GREEN】** , **【BLUE】** , **【WHITE】** , **【DIMMER】** , **【STROBE】** , **【ZOOM】** , **【 TIME】**
- Enter **【 USE】** and select **【YES】** to run the steps user need.

Note: if user want to circulate the created steps, please set the last step 's **【Time】** as 0
For example, there are 3 steps, the setting should be like belowed:

Step 1 **【Time】** = 4 **【 Use】** = Yes
Step 2 **【Time】** = 5 **【 Use】** = Yes
Step 3 **【Time】** = 0 **【 Use】** = Yes

3.8 INFO



- push **【OK】** button into the information search mode in menu **【INFO】** , push **【up/down】** to choose item.

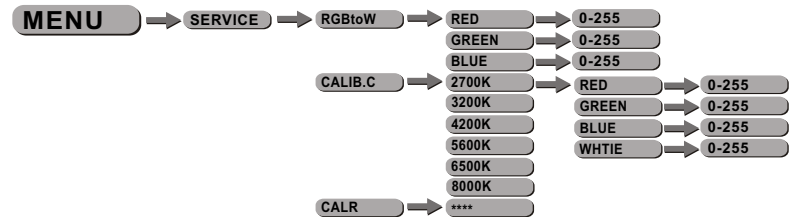
Choose **【SYSTEM ERROR】** system data error.
Choose **【TEMPERATURE】** LED working temperature
Choose **【 VERSION】** software version
Choose **【NETWORK PARA】** check network specification
Choose **【RDM】** check the fixture ID
Choose **【LABEL】** check model name

3.9 MANUAL



- Select **【RESET】** from the **【MANUAL】** menu
- **【ALL RESET】** menu, select **【YES/NO】** to carry out full fixture reset
- **【PT RESET】** menu, select **【YES/NO】** to carry out PAN/TILT reset

3.10 SERVICE



- Enter the **【RGBtoW】** to adjust the RGB parameter to make different whites.
- When the new setting is activated, the DMX controller choose RGB = 255,255,255 the white color will be made by the actual RGB values on the **【RGBtoW】** .
- Enter the **【CALIB】** to select white color of different color temperature.
- There are 11 pre-programmed White colors plus RGB TO WHITE and can be edited by using **【RED】** , **【GREEN】** , **【BLUE】** & **【WHITE】** .
- Press **【ENTER】** to find **【CALR】** CCT reset, press passcode **【Up +Down+ Up+ Down】** , then **【SUCCESS】** will be shown

4 USING A DMX512 CONTROLLER

4.1 CHANNEL ASSIGNMENT

- Note: This product have four DMX512 channel configuration:
【HSIC】 , 【PERSON1】 , 【PERSON2】 , 【CMY】 , 【PIXEL】 .

HSIC

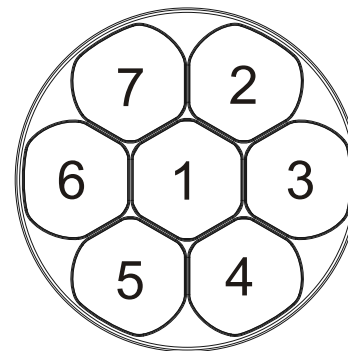
CHANNEL	VALUE	FUNCTION
1	0 ⇄ 255	PAN
2	0 ⇄ 255	PAN FINE
3	0 ⇄ 255	TITL
4	0 ⇄ 255	TITL FINE
5	0 ⇄ 255	PT SPEED
6	0 ⇄ 255	INTENSIYT
7	0 ⇄ 255	HUE
8	0 ⇄ 255	HUE FINE
9	0 ⇄ 255	SATURATION
10		CCT
	0 ⇄ 9	NO FUNCTION
	10 ⇄ 40	2700K
	41 ⇄ 80	3200K
	81 ⇄ 120	4200K
	121 ⇄ 160	5600K
	161 ⇄ 200	6500K
	201 ⇄ 255	8000K
11		STROBE
	0 ⇄ 9	NO FUNCTION
	10 ⇄ 99	STROBE FROM (SLOD TO FAST , 0-25Hz)
	100 ⇄ 109	NO FUNCTION
	110 ⇄ 179	LIGHTNING STROBE
	180 ⇄ 189	NO FUNCTION
190 ⇄ 255	RANDOM SROBE	
12	0 ⇄ 255	ZOOM

CHANNEL	VALUE	FUNCTION
		CONTROL
13	0 ⇄ 9	NO FUNCTION
	10 ⇄ 19	PAN/TILTBLACK ACTIVATED
	20 ⇄ 29	PAN/TILTBLACK DEACTIVATED
	30 ⇄ 39	FAN SLOW
	40 ⇄ 49	FAN NORMAL
	50 ⇄ 59	FAN FAST
	60 ⇄ 69	FAN AUTO
	70 ⇄ 79	AUTO1
	80 ⇄ 89	AUTO2
	90 ⇄ 99	CUSTOM
	100 ⇄ 109	TEST
	110 ⇄ 119	RESET
	120 ⇄ 129	NO FUNCTION
	130 ⇄ 139	DIM0
	140 ⇄ 149	DIM1
	150 ⇄ 159	DIM2
	160 ⇄ 169	DIM3
	170 ⇄ 179	DIM4
180 ⇄ 255	NO FUNCTION	

PERSON1

CHANNEL	VALUE	FUNCTION	单点控制功能
1	0 ⇄ 255	PAN	
2	0 ⇄ 255	TITL	
3	0 ⇄ 255	RED	
4	0 ⇄ 255	GREEN	
5	0 ⇄ 255	BLUE	
6	0 ⇄ 255	WHITE	
7	0 ⇄ 255	DIMMER	
8		MARCOS	
	0 ⇄ 9	NO FUNCTION	
	10 ⇄ 29	RED 100% /GREEN UP /BLUE 0%	
	30 ⇄ 49	RED DOWN /GREEN 100% /BLUE 0%	
	50 ⇄ 69	RED 0% /GREEN 100% /BLUE UP	
	70 ⇄ 89	RED 0% /GREEN DOWN /BLUE 100%	
	90 ⇄ 109	RED UP /GREEN 0% /BLUE 100%	
	110 ⇄ 129	RED 100% /GREEN 0% /BLUEDOWN	
	130 ⇄ 149	RED 100%/GREEN UP/BLUEUP	
	150 ⇄ 169	RED DOWN/GREEN DOWN/BLUE 100%	
	170 ⇄ 189	ALL LEDAT FULLOUTPUT	
	190 ⇄ 199	2700K	
	200 ⇄ 209	3200K	
	210 ⇄ 219	4200K	
	220 ⇄ 229	5600K	
	230 ⇄ 239	6500K	
240 ⇄ 255	8000K		
9		A SINGLE POINT	
	0 ⇄ 7	NO FUNCTION	
	8 ⇄ 11	static 1	1
	12 ⇄ 15	static 2	2
	16 ⇄ 19	static 3	3
	20 ⇄ 23	static 4	4
	24 ⇄ 27	static 5	5
	28 ⇄ 31	static 6	6
	32 ⇄ 35	static 7	7
	36 ⇄ 39	static 8	2,3
	40 ⇄ 43	static 9	4,5
	44 ⇄ 47	static 10	6,7
	48 ⇄ 51	static 11	2,5
	52 ⇄ 55	static 12	3,6
	56 ⇄ 59	static 13	4,7
	60 ⇄ 63	static 14	2,3,4
	64 ⇄ 67	static 15	5,6,7

CHANNEL	VALUE	FUNCTION	单点控制功能
9	68 ⇄ 71	static 16	1,2,3
	72 ⇄ 75	static 17	1,4,5
	76 ⇄ 79	static 18	1,6,7
	80 ⇄ 83	static 19	1,2,5
	84 ⇄ 87	static 20	1,3,6
	88 ⇄ 91	static 21	1,4,7
	92 ⇄ 95	static 22	3,5,7
	96 ⇄ 99	static 23	5,6,7
	100 ⇄ 103	static 24	1,3,5,7
	104 ⇄ 107	static 25	1,5,6,7
	108 ⇄ 111	static 26	1,2,4,5,7
	112 ⇄ 115	static 27	1,2,3,5,6
	116 ⇄ 119	static 28	1,3,4,6,7
	120 ⇄ 123	static 29	2,3,4,5,6,7
	124 ⇄ 127	black	DARK
	128 ⇄ 135	static ALL	BRIGHT
	136 ⇄ 145	RING1 slow-->fast	(2)-(3)-(4)-(5)-(6)-(7)
	146 ⇄ 155	RING2A slow-->fast	(2,3)-(4,5)-(6,7)
	156 ⇄ 165	RING2B slow-->fast	(2,5)-(3,6)-(4,7)
	166 ⇄ 175	RING2C slow-->fast	(1,2)-(1,3)-(1,4)-(1,5)-(1,6)-(1,7)
	176 ⇄ 185	RING3A slow-->fast	(2,3,4)-(5,6,7)
	186 ⇄ 195	RING3B slow-->fast	(1,2,3)-(1,4,5)-(1,6,7)
	196 ⇄ 205	RING3C slow-->fast	(1,2,5)-(1,3,6)-(1,4,7)
	206 ⇄ 215	RING3D slow-->fast	(2,5,7)-(1,4,6)
	216 ⇄ 225	RING3E slow-->fast	(2,3,4)-(3,4,5)-(4,5,6)-(5,6,7)-(6,7,2)-(7,2,3)
	226 ⇄ 235	RING4 slow-->fast	(1,2,3,5,6)-(1,3,4,6,7)-(1,4,5,7)
	236 ⇄ 245	RING5 slow-->fast	(1,2,3,5,6)-(1,3,4,6,7)-(1,4,5,7,2)
	246 ⇄ 255	GINR6 slow-->fast	(1)-(2,3,4,5,6,7)

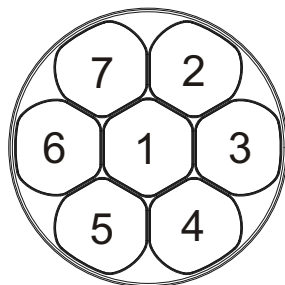


To identify up, middle and down by head which after the fixture electrify & reset

CHANNEL	VALUE	FUNCTION
		STROBE
	0 ↔ 9	NO FUNCTION
10	10 ↔ 99	STROBE FROM (SLOD TO FAST , 0-25Hz)
	100 ↔ 109	NO FUNCTION
	110 ↔ 179	LIGHTNING STROBE
	180 ↔ 189	NO FUNCTION
	190 ↔ 255	RANDOM SROBE
11	0 ↔ 255	ZOOM
		CONTROL
	0 ↔ 9	NO FUNCTION
	10 ↔ 19	PAN/TILTBLACK ACTIVATED
	20 ↔ 29	PAN/TILTBLACK DEACTIVATED
	30 ↔ 39	FAN SLOW
	40 ↔ 49	FAN NORMAL
	50 ↔ 59	FAN FAST
	60 ↔ 69	FAN AUTO
	70 ↔ 79	AUTO1
12	80 ↔ 89	AUTO2
	90 ↔ 99	CUSTOM
	100 ↔ 109	TEST
	110 ↔ 119	RESET
	120 ↔ 129	NO FUNCTION
	130 ↔ 139	DIM0
	140 ↔ 149	DIM1
	150 ↔ 159	DIM2
	160 ↔ 169	DIM3
	170 ↔ 179	DIM4
	180 ↔ 255	NO FUNCTION

PERSON2			
CHANNEL	VALUE	FUNCTION	单点控制功能
1	0 ↔ 255	PAN	
2	0 ↔ 255	PAN FINE	
3	0 ↔ 255	TITL	
4	0 ↔ 255	TITL FINE	
5	0 ↔ 255	PT SPEED	
6	0 ↔ 255	RED	
7	0 ↔ 255	RED FINE	
8	0 ↔ 255	GREEN	
9	0 ↔ 255	GREEN FINE	
10	0 ↔ 255	BLUE	
11	0 ↔ 255	BLUE FINE	
12	0 ↔ 255	WHTIE	
13	0 ↔ 255	WHTIE FINE	
14	0 ↔ 255	DIMMER	
15	0 ↔ 255	DIMMER FINE	
		MARCOS	
	0 ↔ 9	NO FUNCTION	
	10 ↔ 29	RED 100% /GREEN UP /BLUE 0%	
	30 ↔ 49	RED DOWN /GREEN 100% /BLUE 0%	
	50 ↔ 69	RED 0% /GREEN 100% /BLUE UP	
	70 ↔ 89	RED 0% /GREEN DOWN /BLUE 100%	
	90 ↔ 109	RED UP /GREEN 0% /BLUE 100%	
	110 ↔ 129	RED 100%/GREEN 0%/BLUEDOWN	
16	130 ↔ 149	RED 100%/GREEN UP/BLUE UP	
	150 ↔ 169	RED DOWN/GREEN DOWN/BLUE 100%	
	170 ↔ 189	ALL LEDAT FULLOUTPUT	
	190 ↔ 199	2700K	
	200 ↔ 209	3200K	
	210 ↔ 219	4200K	
	220 ↔ 229	5600K	
	230 ↔ 239	6500K	
	240 ↔ 255	8000K	
		A SINGLEPOINT	
	0 ↔ 7	NO FUNCTION	
	8 ↔ 11	static 1	1
	12 ↔ 15	static 2	2
	16 ↔ 19	static 3	3
17	20 ↔ 23	static 4	4
	24 ↔ 27	static 5	5
	28 ↔ 31	static 6	6
	32 ↔ 35	static 7	7

CHANNEL	VALUE	FUNCTION	单点控制功能
17	36 ⇔ 39	static 8	2,3
	40 ⇔ 43	static 9	4,5
	44 ⇔ 47	static 10	6,7
	48 ⇔ 51	static 11	2,5
	52 ⇔ 55	static 12	3,6
	56 ⇔ 59	static 13	4,7
	60 ⇔ 63	static 14	2,3,4
	64 ⇔ 67	static 15	5,6,7
	68 ⇔ 71	static 16	1,2,3
	72 ⇔ 75	static 17	1,4,5
	76 ⇔ 79	static 18	1,6,7
	80 ⇔ 83	static 19	1,2,5
	84 ⇔ 87	static 20	1,3,6
	88 ⇔ 91	static 21	1,4,7
	92 ⇔ 95	static 22	3,5,7
	96 ⇔ 99	static 23	5,6,7
	100 ⇔ 103	static 24	1,3,5,7
	104 ⇔ 107	static 25	1,5,6,7
	108 ⇔ 111	static 26	1,2,4,5,7
	112 ⇔ 115	static 27	1,2,3,5,6
	116 ⇔ 119	static 28	1,3,4,6,7
	120 ⇔ 123	static 29	2,3,4,5,6,7
	124 ⇔ 127	black	DARK
	128 ⇔ 135	static ALL	BRIGHT
	136 ⇔ 145	RING1 slow-->fast	(2)-(3)-(4)-(5)-(6)-(7)
	146 ⇔ 155	RING2A slow-->fast	(2,3)-(4,5)-(6,7)
	156 ⇔ 165	RING2B slow-->fast	(2,5)-(3,6)-(4,7)
	166 ⇔ 175	RING2C slow-->fast	(1,2)-(1,3)-(1,4)-(1,5)-(1,6)-(1,7)
176 ⇔ 185	RING3A slow-->fast	(2,3,4)-(5,6,7)	
186 ⇔ 195	RING3B slow-->fast	(1,2,3)-(1,4,5)-(1,6,7)	
196 ⇔ 205	RING3C slow-->fast	(1,2,5)-(1,3,6)-(1,4,7)	
206 ⇔ 215	RING3D slow-->fast	(2,5,7)-(1,4,6)	
216 ⇔ 225	RING3E slow-->fast	(2,3,4)-(3,4,5)-(4,5,6)-(5,6,7)-(6,7,2)-(7,2,3)	
226 ⇔ 235	RING4 slow-->fast	(1,2,3,5,6)-(1,3,4,6,7)-(1,4,5,7)	
236 ⇔ 245	RING5 slow-->fast	(1,2,3,5,6)-(1,3,4,6,7)-(1,4,5,7,2)	
246 ⇔ 255	GINR6 slow-->fast	(1)-(2,3,4,5,6,7)	

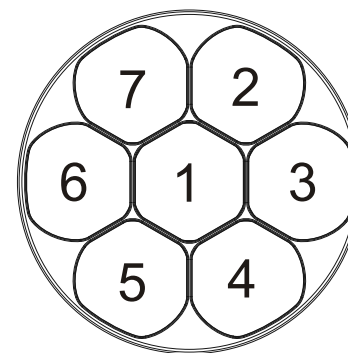


To identify up, middle and down by head which after the fixture electrify & reset

CHANNEL	VALUE	FUNCTION
18		STROBE
	0 ⇔ 9	NO FUNCTION
	10 ⇔ 99	STROBE FROM (SLOD TO FAST , 0-25Hz)
	100 ⇔ 109	NO FUNCTION
	110 ⇔ 179	LIGHTNING STROBE
	180 ⇔ 189	NO FUNCTION
	190 ⇔ 255	RANDOM SROBE
19	0 ⇔ 255	ZOOM
20		CONTROL
	0 ⇔ 9	NO FUNCTION
	10 ⇔ 19	PAN/TILTBLACK ACTIVATED
	20 ⇔ 29	PAN/TILTBLACK DEACTIVATED
	30 ⇔ 39	FAN SLOW
	40 ⇔ 49	FAN NORMAL
	50 ⇔ 59	FAN FAST
	60 ⇔ 69	FAN AUTO
	70 ⇔ 79	AUTO1
	80 ⇔ 89	AUTO2
	90 ⇔ 99	CUSTOM
	100 ⇔ 109	TEST
	110 ⇔ 119	RESET
120 ⇔ 129	NO FUNCTION	
130 ⇔ 139	DIM0	
140 ⇔ 149	DIM1	
150 ⇔ 159	DIM2	
160 ⇔ 169	DIM3	
170 ⇔ 179	DIM4	
180 ⇔ 255	NO FUNCTION	

CMY			
CHANNEL	VALUE	FUNCTION	单点控制功能
1	0 ↔ 255	PAN	
2	0 ↔ 255	PAN FINE	
3	0 ↔ 255	TITL	
4	0 ↔ 255	TITL FINE	
5	0 ↔ 255	PT SPEED	
6	0 ↔ 255	CYAN	
7	0 ↔ 255	MAGENT	
8	0 ↔ 255	YELLOW	
9	0 ↔ 255	DIMMER	
10		MARCOS	
	0 ↔ 9	NO FUNCTION	
	10 ↔ 29	RED 100% / GREEN UP / BLUE 0%	
	30 ↔ 49	RED DOWN / GREEN 100% / BLUE 0%	
	50 ↔ 69	RED 0% / GREEN 100% / BLUE UP	
	70 ↔ 89	RED 0% / GREEN DOWN / BLUE 100%	
	90 ↔ 109	RED UP / GREEN 0% / BLUE 100%	
	110 ↔ 129	RED 100% / GREEN 0% / BLUE DOWN	
	130 ↔ 149	RED 100% / GREEN UP / BLUE UP	
	150 ↔ 169	RED DOWN / GREEN DOWN / BLUE 100%	
	170 ↔ 189	ALL LED AT FULL OUTPUT	
	190 ↔ 199	2700K	
	200 ↔ 209	3200K	
	210 ↔ 219	4200K	
	220 ↔ 229	5600K	
	230 ↔ 239	6500K	
	240 ↔ 255	8000K	
11		A SINGLE POINT	
	0 ↔ 7	NO FUNCTION	
	8 ↔ 11	static 1	1
	12 ↔ 15	static 2	2
	16 ↔ 19	static 3	3
	20 ↔ 23	static 4	4
	24 ↔ 27	static 5	5
	28 ↔ 31	static 6	6
	32 ↔ 35	static 7	7
	36 ↔ 39	static 8	2,3
	40 ↔ 43	static 9	4,5
	44 ↔ 47	static 10	6,7
	48 ↔ 51	static 11	2,5
	52 ↔ 55	static 12	3,6
	56 ↔ 59	static 13	4,7
60 ↔ 63	static 14	2,3,4	
64 ↔ 67	static 15	5,6,7	

CHANNEL	VALUE	FUNCTION	单点控制功能
11	68 ↔ 71	static 16	1,2,3
	72 ↔ 45	static 17	1,4,5
	76 ↔ 79	static 18	1,6,7
	80 ↔ 83	static 19	1,2,5
	84 ↔ 87	static 20	1,3,6
	88 ↔ 91	static 21	1,4,7
	92 ↔ 95	static 22	3,5,7
	96 ↔ 99	static 23	5,6,7
	100 ↔ 103	static 24	1,3,5,7
	104 ↔ 107	static 25	1,5,6,7
	108 ↔ 111	static 26	1,2,4,5,7
	112 ↔ 115	static 27	1,2,3,5,6
	116 ↔ 119	static 28	1,3,4,6,7
	120 ↔ 123	static 29	2,3,4,5,6,7
	124 ↔ 127	black	DARK
	128 ↔ 135	static ALL	BRIGHT
	136 ↔ 145	RING1 slow-->fast	(2)-(3)-(4)-(5)-(6)-(7)
	146 ↔ 155	RING2A slow-->fast	(2,3)-(4,5)-(6,7)
	156 ↔ 165	RING2B slow-->fast	(2,5)-(3,6)-(4,7)
	166 ↔ 175	RING2C slow-->fast	(1,2)-(1,3)-(1,4)-(1,5)-(1,6)-(1,7)
	176 ↔ 185	RING3A slow-->fast	(2,3,4)-(5,6,7)
	186 ↔ 195	RING3B slow-->fast	(1,2,3)-(1,4,5)-(1,6,7)
	196 ↔ 205	RING3C slow-->fast	(1,2,5)-(1,3,6)-(1,4,7)
	206 ↔ 215	RING3D slow-->fast	(2,5,7)-(1,4,6)
	216 ↔ 225	RING3E slow-->fast	(2,3,4)-(3,4,5)-(4,5,6)-(5,6,7)-(6,7,2)-(7,2,3)
	226 ↔ 235	RING4 slow-->fast	(1,2,3,5,6)-(1,3,4,6,7)-(1,4,5,7)
	236 ↔ 245	RING5 slow-->fast	(1,2,3,5,6)-(1,3,4,6,7)-(1,4,5,7,2)
	246 ↔ 255	GINR6 slow-->fast	(1)-(2,3,4,5,6,7)



To identify up, middle and down by head which after the fixture electrify & reset

CHANNEL	VALUE	FUNCTION
12		STROBE
	0 ↔ 9	NO FUNCTION
	10 ↔ 99	STROBE FROM (SLOD TO FAST , 0-25Hz)
	100 ↔ 109	NO FUNCTION
	110 ↔ 179	LIGHTNING STROBE
	180 ↔ 189	NO FUNCTION
13	190 ↔ 255	RANDOM SROBE
	0 ↔ 255	ZOOM
14		CONTROL
	0 ↔ 9	NO FUNCTION
	10 ↔ 19	PAN/TILTBLACK ACTIVATED
	20 ↔ 29	PAN/TILTBLACK DEACTIVATED
	30 ↔ 39	FAN SLOW
	40 ↔ 49	FAN NORMAL
	50 ↔ 59	FAN FAST
	60 ↔ 69	FAN AUTO
	70 ↔ 79	AUTO1
	80 ↔ 89	AUTO2
	90 ↔ 99	CUSTOM
	100 ↔ 109	TEST
	110 ↔ 119	RESET
	120 ↔ 129	NO FUNCTION
	130 ↔ 139	DIM0
	140 ↔ 149	DIM1
	150 ↔ 159	DIM2
	160 ↔ 169	DIM3
	170 ↔ 179	DIM4
	180 ↔ 255	NO FUNCTION

PIXEL			
CHANNEL	VALUE	FUNCTION	
1	0 ↔ 255	PAN	
	2	0 ↔ 255	PAN FINE
		0 ↔ 255	TILT
		0 ↔ 255	TILT FINE
		0 ↔ 255	PT SPEED
		0 ↔ 255	DIMMER
7		STROBE	
	0 ↔ 9	NO FUNCTION	
	10 ↔ 99	STROBE FROM (SLOD TO FAST , 0-25Hz)	
	100 ↔ 109	NO FUNCTION	
	110 ↔ 179	LIGHTNING STROBE	
	180 ↔ 189	NO FUNCTION	
	190 ↔ 255	RANDOM SROBE	
8	0 ↔ 255	ZOOM	
9		CONTROL	
	0 ↔ 9	NO FUNCTION	
	10 ↔ 19	PAN/TILTBLACK ACTIVATED	
	20 ↔ 29	PAN/TILTBLACK DEACTIVATED	
	30 ↔ 39	FAN SLOW	
	40 ↔ 49	FAN NORMAL	
	50 ↔ 59	FAN FAST	
	60 ↔ 69	FAN AUTO	
	70 ↔ 79	AUTO1	
	80 ↔ 89	AUTO2	
	90 ↔ 99	CUSTOM	
	100 ↔ 109	TEST	
	110 ↔ 119	RESET	
	120 ↔ 129	NO FUNCTION	
	130 ↔ 139	DIM0	
	140 ↔ 149	DIM1	
	150 ↔ 159	DIM2	
	160 ↔ 169	DIM3	
170 ↔ 179	DIM4		
180 ↔ 255	NO FUNCTION		

CHANNEL	VALUE	FUNCTION
10	0 ↔ 255	RED 1
11	0 ↔ 255	GREEN1
12	0 ↔ 255	BLUE1
13	0 ↔ 255	WHITE1
14	0 ↔ 255	RED2
15	0 ↔ 255	GREEN2
16	0 ↔ 255	BLUE2
17	0 ↔ 255	WHITE 2
18	0 ↔ 255	RED3
19	0 ↔ 255	GREEN3
20	0 ↔ 255	BLUE3
21	0 ↔ 255	WHITE3
22	0 ↔ 255	RED4
23	0 ↔ 255	GREEN4
24	0 ↔ 255	BLUE4
25	0 ↔ 255	WHITE4
26	0 ↔ 255	RED 5
27	0 ↔ 255	GREEN5
28	0 ↔ 255	BLUE5
29	0 ↔ 255	WHITE 5
30	0 ↔ 255	RED 6
31	0 ↔ 255	GREEN6
32	0 ↔ 255	BLUE6
33	0 ↔ 255	WHITE 6
34	0 ↔ 255	RED 7
35	0 ↔ 255	GREEN7
36	0 ↔ 255	BLUE7
37	0 ↔ 255	WHITE7