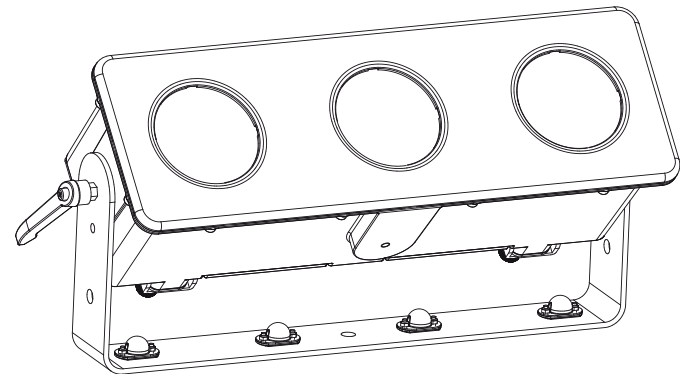


Z3 LED

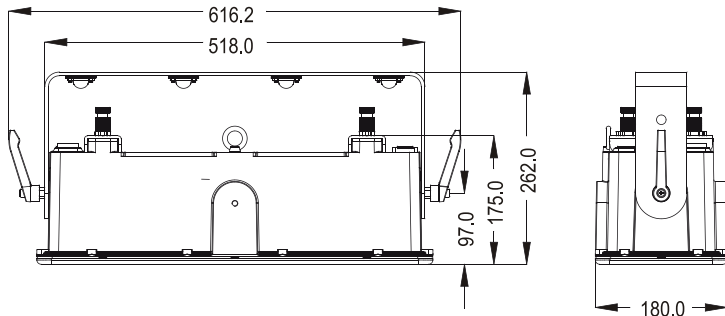
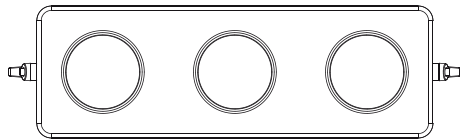
USER MANUAL



1 PRODUCT SPECIFICATIONS

1.1 PRODUCT SPECIFICATIONS

- ◆ Voltage: AC100~240V, 50/60Hz
- ◆ Max Power: 230W
- ◆ Operation Temperature: -20°C~45°C
- ◆ Size: 616×180×262mm
- ◆ Weight: 10.5kg



1.2 SAFETY WARNING

IMPORTANT:

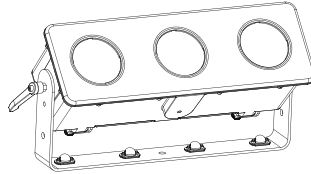
- This product must be installed by a qualified professional.
- All maintenance must be carried out by a qualified electrician.
- A minimum distance of 0.5m must be maintained between the equipment and a combustible surface.
- The product must always be operated in a well ventilated area.
- DO NOT stare 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

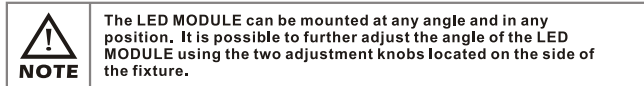
HANGING

The fixture can be mounted in a hanging position using the supporting bracket. The bracket should be secured to the mounting truss or structure using a standard mounting clamp. Please note that when hanging the unit a safety cable should also be used.



UPRIGHT

The fixture can be mounted in an upright or sitting position using the supporting brackets.



2.2 POWER CONNECTIONS

@ 220V: 8 units may be connected in series

@ 110V: 4 units may be connected in series

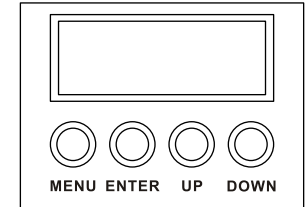
Note:

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.

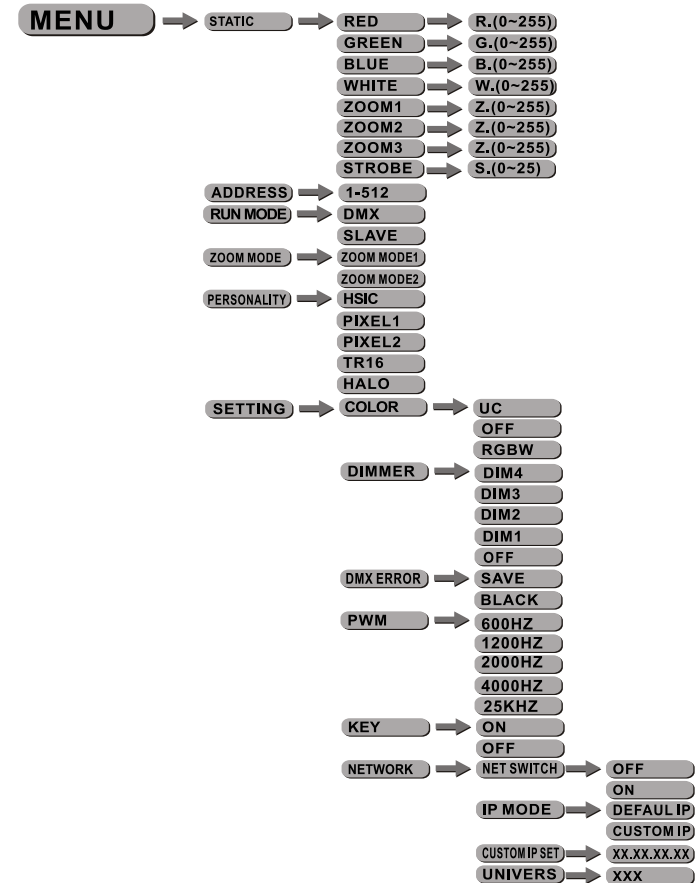
3 DISPLAY PANEL OPERATION

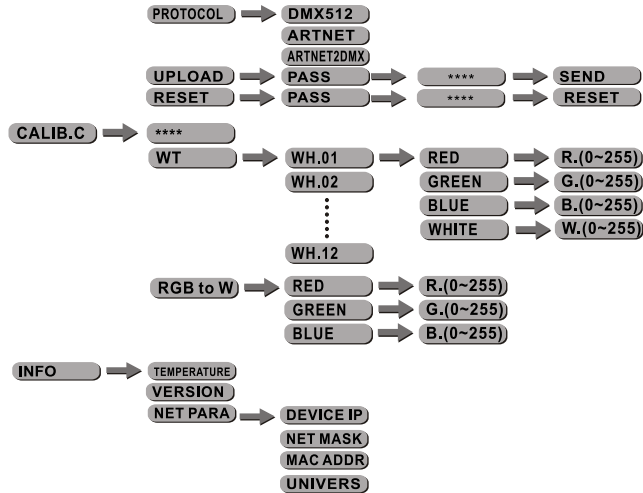
3.1 DISPLAY OPERATION

- ◆ MENU: BACK;
- ◆ ENTER: ENTER OR SAVE;
- ◆ DOWN: DOWN;
- ◆ UP: UP;

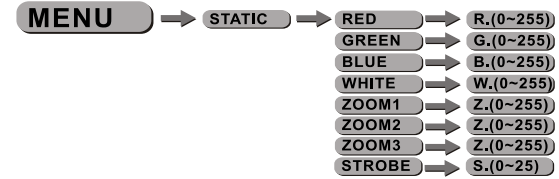


3.2 MENU MAP





3.3 EDIT STATIC COLOUR



- Combine **【RED】**, **【GREEN】**, **【BLUE】**, **【WHITE】**, **【ZOOM1】**, **【ZOOM2】** AND **【ZOOM3】** to reate an infinite range of colors (0-255)
- Set the value of the **【STROBE】** (0-25Hz)

3.4 DMX512 SETTINGS



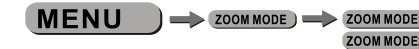
- Enter the **【 ADDRESS】** mode to set the DMX ADDRESS.

3.5 RUN MODE



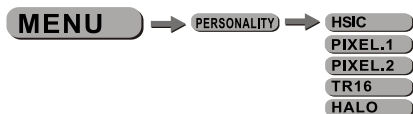
- Enter the **【 RUN MODE】** mode to set working mode.
- **【DMX】** mode is for using the DMX512 controller to control the fixtures.
- **【SLAVE】** mode is for Master -- Slave operation.

3.6 ZOOM MODE



- **【ZOOM MODE 1】** is the default fast zoom speed, work in Ambient Temp. > 0°C
- **【ZOOM MODE 2】** is slow zoom speed, works in Ambient Temp. < 0°C

3.7 PERSONALITY

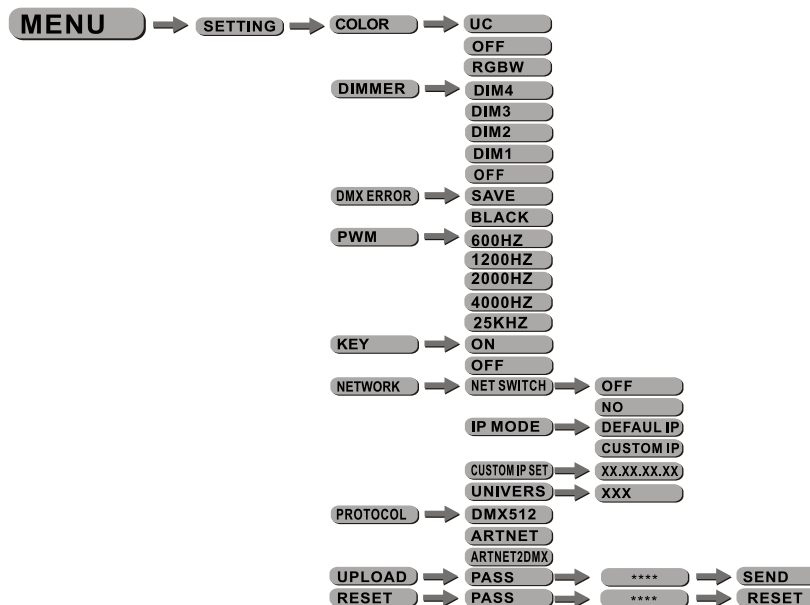


- Enter the **PERSONALITY** mode to select DMX mode: **HSIC** \ **SSP** \ **TOUR** \ **TR16** \ **HALO** .

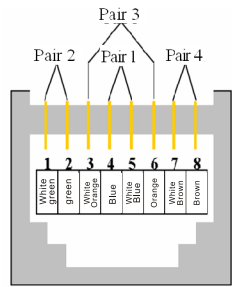
Introduction for HSIC

- **HUE**: colorful present(red, orange,yellow, green,cyan, blue, magentacolor changeable)
- **HUE FINE**: fine dimming when choose a color
- **SATURATION**: adjust saturation when choose a color
- **INTENSITY**: adjust intensity for chosen color
- **CCT**: choose needed color temperature(2700k, 3000k, 3200k, 3500k, 4000k, 4200k, 4500k, 5600k, 6000k, 6500k, 7200k, 8000k)

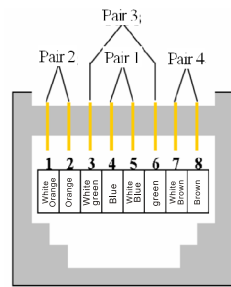
3.10 SPECIAL SETTINGS



- **SETTING**...this menu allows the user to adjust key operation settings for this fixture.
- **COLOR** is for activate/unactivate the color calibration functions. When **RGBW** is selected, on RGB = 255,255,255, the color is displayed as calibrated in CALIB.C -- RGBW. 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.
 Note: **COLOR** work only when choose **NORMAL** at **FULL POWER CCT**
- Select **DIM1**, **DIM2**, **DIM3** or **DIM4** for different dimming speeds. (**DIM4** is the slowest dimming speed)
- **DMX ERROR** Choose **SAVE** in order to save the last DMX data in case of DMX signal error. Choose **BLACK** in order to blackout in case of DMX signal error.
- **PWM_RATE** is PWM refresh rate bottom, press UP/DOWN to choose <600Hz>, <1200Hz>, <2000Hz>, <4000Hz>, <25000Hz>
 Note: with refresh rate increased, gray rate of dimmer will be reduced, (that's means high refresh rate, low gray rate), when it's <4000Hz>, CV3 is invalid, when it's <25000Hz>, CV1 CV2 CV3 are invalid, so please lower PWM rate to increase gray rate in necessary.
- **KEY**...select **ON** for automatic lock-out. Password to re-enter the display is **UP** + **DOWN** + **UP** + **DOWN**.



T568A Line sequence

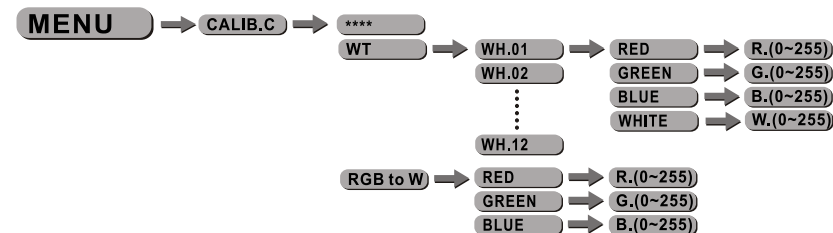


T568B Line sequence

- **[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
- **[PROTOCOL]** is the control protocol setting, press **[UP]** / **[DOWN]** to choose, choose **[UP]** / **[DOWN]** means use DMX protocol, choose **[ARTNET]** means use artnet protocol, choose **[ARTNET2DMX]** means use artnet protocol and send DMX signal from DMX XLR at the same time.
- Net wire: Straight-through cable is recommended between T568B wire order, the computer connected to the switch with a straight-through cable, the connection between the switch and the lamp used T568A line order with a straight-through cable crossover cable at one end and the other end with T568B wire order. Lamps directly connected computer should use a crossover cable
- IP setting: When set IP, it can't be duplicated. Internet port IP and fixture IP should be provided on the same subnet. Computer subnet mask is fixed: 255.0.0.0
- Select[UPLOAD] to upload the custom programs from the current MASTER unit to the SLAVE units.
- In order to reset custom modes to default values select [RESET] .Note:

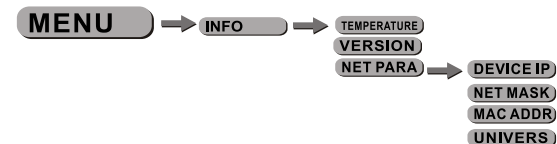
3.9 BALANCE PARAMETERS AND CORRECTION MENU DISPLAY

Press **[MENU]** button to enter the password confirmation, to enter the correct password < UP + DOWN + UP + DOWN >
Key, press the **[MENU]** in, the correct password will enter show submenu



- Enter the **[CALIB.C]** to select white color of different color temperature.
- There are 12 pre-programmed White colors can be edited by using **[RED]** , **[GREEN]** , **[BLUE]** & **[WHITE]** .
- 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 **[RGBW]** .

3.10 INFO



- Press **[ENTER]** enter into **[INFO]** and check information, press **[DOWN]** / **[UP]** to choose **[TEMPERATURE]** to check temperature information, choose **[VERSION]** to check version information, choose **[NET PARA]** to check net data

4 USING A DMX512 CONTROLLER

4.1 CHANNEL ASSIGNMENT

● Note: This product have four DMX512 channel configuration:
【HSIC】, **【PIXEL.1】**, **【PIXEL.2】**, **【TR16】**, **【HALO】**.

HSIC		
CHANNEL	VALUE	FUNCTION
1	0 ↔ 255	INTENSITY
2	0 ↔ 255	HUE
3	0 ↔ 255	HUE FINE
4	0 ↔ 255	SATURATION
5		CCT
	0 ↔ 15	NO FUNCTION
	16 ↔ 35	2700K
	36 ↔ 55	3000K
	56 ↔ 75	3200K
	76 ↔ 95	3500K
	96 ↔ 115	4000K
	116 ↔ 135	4200K
	136 ↔ 155	4500K
	156 ↔ 175	5600K
	176 ↔ 195	6000K
	196 ↔ 215	6500K
	216 ↔ 235	7200K
	236 ↔ 255	8000K
6		STROBE
	0 ↔ 9	STROBE CLOSED
	10 ↔ 59	STROBE FROM SLOD TO FAST (1-25Hz)
	60 ↔ 109	NO FUNCTION
	110 ↔ 159	THUNDER STROBE FROM SLOD TO FAST
	160 ↔ 209	NO FUNCTION
210 ↔ 255	RANDOM SROBE	
7	0 ↔ 255	ZOOM1
8	0 ↔ 255	ZOOM2
9	0 ↔ 255	ZOOM3
10	0 ↔ 255	ALL ZOOM
11		ZOOM CONTROL
	0 ↔ 9	NO FUNCTION
	10 ↔ 59	ZOOM SEPEARATE ON (Effect when stay 3 seconds, CH7-CH9 has effect when start)
	60 ↔ 109	ZOOM SEPEARATE OFF (Effect when stay 3 seconds, CH7-CH9 no effect when off)
	110 ↔ 159	ZOOM SPEED (Control all zoom speed)
	160 ↔ 209	ZOOM REST (Effect when stay 3 seconds)
210 ↔ 255	NO FUNCTION	

CHANNEL	VALUE	FUNCTION
12		DIMMER SPEED
	0 ↔ 9	NO FUNCTION
	10 ↔ 49	DIM4 (Effect when stay 3 seconds)
	50 ↔ 89	DIM3 (Effect when stay 3 seconds)
	90 ↔ 129	DIM2 (Effect when stay 3 seconds)
	130 ↔ 169	DIM1 (Effect when stay 3 seconds)
	170 ↔ 209	DIM0 (Effect when stay 3 seconds)
	210 ↔ 255	NO FUNCTION

PIXEL.1

CHANNEL	VALUE	FUNCTION
1	0 ↔ 255	MASTER DIMMER
2	0 ↔ 255	RED1
3	0 ↔ 255	GREEN1
4	0 ↔ 255	BLUE1
5	0 ↔ 255	RED2
6	0 ↔ 255	GREEN2
7	0 ↔ 255	BLUE2
8	0 ↔ 255	RED3
9	0 ↔ 255	GREEN3
10	0 ↔ 255	BLUE3
11		STROBE
	0 ↔ 9	STROBE CLOSED
	10 ↔ 59	STROBE FROM SLOD TO FAST (1-25Hz)
	60 ↔ 109	NO FUNCTION
	110 ↔ 159	THUNDER STROBE FROM SLOD TO FAST
	160 ↔ 209	NO FUNCTION
	210 ↔ 255	RANDOM SROBE
12	0 ↔ 255	ZOOM1
13	0 ↔ 255	ZOOM2
14	0 ↔ 255	ZOOM3
15	0 ↔ 255	ALL ZOOM
16		ZOOM CONTROL
	0 ↔ 9	NO FUNCTION
	10 ↔ 59	ZOOM SEPEARATE ON (Effect when stay 3 seconds, CH7-CH9 has effect when start)
	60 ↔ 109	ZOOM SEPEARATE OFF (Effect when stay 3 seconds, CH7-CH9 no effect when off)
	110 ↔ 159	ZOOM SPEED (Control all zoom speed)
	160 ↔ 209	ZOOM REST (Effect when stay 3 seconds)
210 ↔ 255	NO FUNCTION	
17		DIMMER SPEED
	0 ↔ 9	NO FUNCTION
	10 ↔ 49	DIM4 (Effect when stay 3 seconds)
	50 ↔ 89	DIM3 (Effect when stay 3 seconds)
	90 ↔ 129	DIM2 (Effect when stay 3 seconds)
	130 ↔ 169	DIM1 (Effect when stay 3 seconds)
	170 ↔ 209	DIM0 (Effect when stay 3 seconds)
	210 ↔ 255	NO FUNCTION

PIXEL.2

CHANNEL	VALUE	FUNCTION
1	0 ↔ 255	MASTER DIMMER
2	0 ↔ 255	RED1
3	0 ↔ 255	GREEN1
4	0 ↔ 255	BLUE1
5	0 ↔ 255	WHITE1
6	0 ↔ 255	RED2
7	0 ↔ 255	GREEN2
8	0 ↔ 255	BLUE2
9	0 ↔ 255	WHITE2
10	0 ↔ 255	RED3
11	0 ↔ 255	GREEN3
12	0 ↔ 255	BLUE3
13	0 ↔ 255	WHITE3
14		STROBE
	0 ↔ 9	STROBE CLOSED
	10 ↔ 59	STROBE FROM SLOD TO FAST (1-25Hz)
	60 ↔ 109	NO FUNCTION
	110 ↔ 159	THUNDER STROBE FROM SLOD TO FAST
	160 ↔ 209	NO FUNCTION
210 ↔ 255	RANDOM SROBE	
15	0 ↔ 255	ZOOM1
16	0 ↔ 255	ZOOM2
17	0 ↔ 255	ZOOM3
18	0 ↔ 255	ALL ZOOM
19		ZOOM CONTROL
	0 ↔ 9	NO FUNCTION
	10 ↔ 59	ZOOM SEPEARATE ON (Effect when stay 3 seconds, CH7-CH9 has effect when start)
	60 ↔ 109	ZOOM SEPEARATE OFF (Effect when stay 3 seconds, CH7-CH9 no effect when off)
	110 ↔ 159	ZOOM SPEED (Control all zoom speed)
	160 ↔ 209	ZOOM REST (Effect when stay 3 seconds)
210 ↔ 255	NO FUNCTION	
20		DIMMER SPEED
	0 ↔ 9	NO FUNCTION
	10 ↔ 49	DIM4 (Effect when stay 3 seconds)
	50 ↔ 89	DIM3 (Effect when stay 3 seconds)
	90 ↔ 129	DIM2 (Effect when stay 3 seconds)
	130 ↔ 169	DIM1 (Effect when stay 3 seconds)
	170 ↔ 209	DIM0 (Effect when stay 3 seconds)
	210 ↔ 255	NO FUNCTION

TR16

CHANNEL	VALUE	FUNCTION
1	0 ↔ 255	MASTER DIMMER
2	0 ↔ 255	MASTER DIMMER FINE
3	0 ↔ 255	RED
4	0 ↔ 255	RED FINE
5	0 ↔ 255	GREEN
6	0 ↔ 255	GREEN FINE
7	0 ↔ 255	BLUE
8	0 ↔ 255	BLUE FINE
9	0 ↔ 255	WHITE
10	0 ↔ 255	WHITE FINE
11		COLOR MARCOS
	0 ↔ 10	NO FUNCTION
	11 ↔ 30	RED 100% / GREEN UP / BLUE 0%
	31 ↔ 50	RED DOWN / GREEN 100% / BLUE 0%
	51 ↔ 70	RED 0% / GREEN 100% / BLUE UP
	71 ↔ 90	RED 0% / GREEN DOWN / BLUE 100%
	91 ↔ 110	RED UP / GREEN 0% / BLUE 100%
	111 ↔ 130	RED 100% / GREEN 0% / BLUE DOWN
	131 ↔ 150	RED 100% / GREEN UP / BLUE UP
	151 ↔ 170	RED DOWN / GREEN DOWN / BLUE 100%
	171 ↔ 195	ALL LEDS AT FULL OUTPUT
	196 ↔ 200	2700K
	201 ↔ 205	3000K
	206 ↔ 210	3200K
	211 ↔ 215	3500K
	216 ↔ 220	4000K
	221 ↔ 225	4200K
	226 ↔ 230	4500K
	231 ↔ 235	5600K
	236 ↔ 240	6000K
241 ↔ 245	6500K	
246 ↔ 250	7200K	
251 ↔ 255	8000K	
12		STROBE
	0 ↔ 9	STROBE CLOSED
	10 ↔ 59	STROBE FROM SLOD TO FAST (1-25Hz)
	60 ↔ 109	NO FUNCTION
	110 ↔ 159	THUNDER STROBE FROM SLOD TO FAST
	160 ↔ 209	NO FUNCTION
210 ↔ 255	RANDOM SROBE	
13	0 ↔ 255	ZOOM1

CHANNEL	VALUE	FUNCTION
14	0 ↔ 255	ZOOM2
15	0 ↔ 255	ZOOM3
16	0 ↔ 255	ALL ZOOM
17		ZOOM CONTROL
	0 ↔ 9	NO FUNCTION
	10 ↔ 59	ZOOM SEPEARATE ON (Effect when stay 3 seconds, CH7-CH9 has effect when start)
	60 ↔ 109	ZOOM SEPEARATE OFF(Effect when stay 3 seconds, CH7-CH9 no effect when off)
	110 ↔ 159	ZOOM SPEED(Control all zoom speed)
	160 ↔ 209	ZOOM REST (Effect when stay 3 seconds)
	210 ↔ 255	NO FUNCTION
		COLOR PIXEL SELECTION
18	0 ↔ 9	NO FUNCTION
	10 ↔ 29	PIX1,2,3 (Static)
	30 ↔ 49	PIX1(Static)
	50 ↔ 69	PIX2(Static)
	70 ↔ 89	PIX3(Static)
	90 ↔ 109	PIX1,2(Static)
	110 ↔ 129	PIX1,3(Static)
	130 ↔ 149	PIX2,3(Static)
	150 ↔ 169	Chase Left to right (Slow to fast)
	170 ↔ 189	Chase Left to right(Fast to slow)
	190 ↔ 209	Chase left-right-left(Slow to fast)
	210 ↔ 229	Random(Slow to fast)
	230 ↔ 255	PIX1,2,3 (Static)
19		ZOOM PIXEL SELECTION
	0 ↔ 9	NO FUNCTION
	10 ↔ 19	PIX1(Small to large)
	20 ↔ 29	PIX1(Big to small)
	30 ↔ 39	PIX2(Small to large)
	40 ↔ 49	PIX2(Big to small)
	50 ↔ 59	PIX3(Small to large)
	60 ↔ 69	PIX3(Big to small)
	70 ↔ 79	PIX1,2(Small to large)
	80 ↔ 89	PIX1,2(Big to small)
	90 ↔ 99	PIX1,3(Small to large)
	100 ↔ 109	PIX1,3(Big to small)
	110 ↔ 119	PIX2,3(Small to large)
	120 ↔ 129	PIX2,3(Big to small)
	130 ↔ 139	PIX1,2,3(All zoom)
	140 ↔ 149	Chase Left to right (Slow to fast)
	150 ↔ 159	Chase Left to right(Fast to slow)
	160 ↔ 169	Chase left-right-left(Slow to fast)
170 ↔ 179	Random(Slow to fast)	
180 ↔ 255	PIX1,2,3(All zoom static)	

CHANNEL	VALUE	FUNCTION
20		DIMMER CONTROL
	0 ↔ 9	NO FUNCTION
	10 ↔ 49	DIM4 (Effect when stay 3 seconds)
	50 ↔ 89	DIM3 (Effect when stay 3 seconds)
	90 ↔ 129	DIM2 (Effect when stay 3 seconds)
	130 ↔ 169	DIM1 (Effect when stay 3 seconds)
	170 ↔ 209	DIM0 (Effect when stay 3 seconds)
	210 ↔ 255	NO FUNCTION

HALO

CHANNEL	VALUE	FUNCTION
1	0 ↔ 255	MASTER DIMMER
2	0 ↔ 255	PIXEL1 DIMMER 2700K
3	0 ↔ 255	PIXEL2 DIMMER 2700K
4	0 ↔ 255	PIXEL3 DIMMER 2700K
5	0 ↔ 255	ZOOM1
6	0 ↔ 255	ZOOM2
7	0 ↔ 255	ZOOM3
8	0 ↔ 255	ALL ZOOM
9		ZOOM CONTROL
	0 ↔ 9	NO FUNCTION
	10 ↔ 59	ZOOM SEPEARATE ON (Effect when stay 3 seconds, CH7-CH9 has effect when start)
	60 ↔ 109	ZOOM SEPEARATE OFF (Effect when stay 3 seconds, CH7-CH9 no effect when off)
	110 ↔ 159	ZOOM SPEED (Control all zoom speed)
	160 ↔ 209	ZOOM REST (Effect when stay 3 seconds)
	210 ↔ 255	NO FUNCTION
10		DIMMER CONTROL
	0 ↔ 9	NO FUNCTION
	10 ↔ 49	DIM4 (Effect when stay 3 seconds)
	50 ↔ 89	DIM3 (Effect when stay 3 seconds)
	90 ↔ 129	DIM2 (Effect when stay 3 seconds)
	130 ↔ 169	DIM1 (Effect when stay 3 seconds)
	170 ↔ 209	DIM0 (Effect when stay 3 seconds)
	210 ↔ 255	NO FUNCTION