

User manual



W3725

Please read the instructions carefully before use

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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 Instructions

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 is for indoor use only. Use only in a dry location.
- 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 serving.
- 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:

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- 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 Specifications

Power supply: 110-240V, 50/60HZ

Power consumption: 850W

Light source: 37x25W 4in1 RGBW LED

DMX Channel: 37/21/15/10/25/39CH

Zoom angle: 10° - 60 °

Horizontal scanning: 540° (16bit precision scanning) Electronic error correction

Vertical scanning: 270° (16bit precision scanning) Electronic error correction

Construction

Data In/Out : 3-pin XLP socket

Power in/Out : Power Con in / out

Protection Rating: IP20

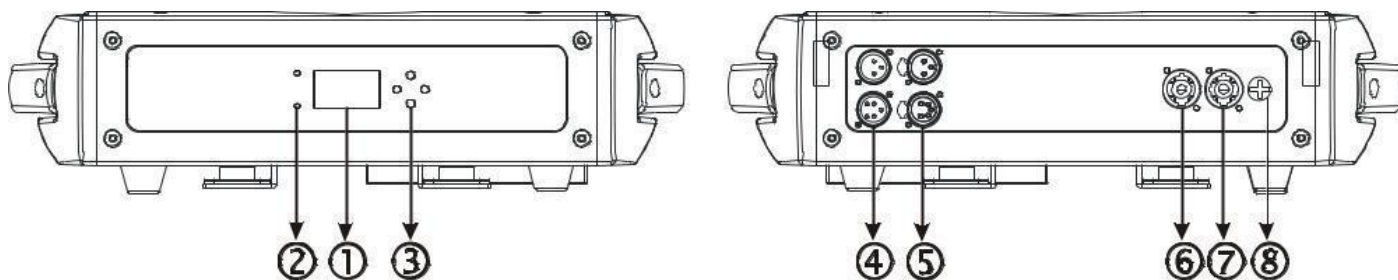
Strobe: 1-25 times/S or random strobe

Dimming: 0-100% linear adjustment

Dimensions : 465*410*200mm

N Weight: 16.2kgs

3.Control Menu



1. Function Display:

Shows the various menus and the selected functions

2.LED:

POWER	ON	Power On
DMX	ON	DMX input present

3. Button:

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

4. DMX IN:

DMX512 link, use 3/5 - pin XLR cable to link the unit and the DMX controller

5. DMX OUT:

DMX512 link, use 3/5 - pin XLR cable to link the next unit and output DMX signal

6. MAINS IN:

PowerCon connection from main power supply

7. MAIS OUT:

PowerCon loop connection for main power supply to the next unit

8. Fuse (T 10A):

Protects the unit from over - voltage or short circuit

To select any of the given functions, press the MENU button until the required function is showing on the display.

Select the function by pressing the ENTER button and the display will blink. Use the

DOWN/UP buttons to change the mode. Once the required mode has been selected, press the ENTER button to setup, to go back to the functions without any change press the MENU button again. Press and hold the MENU button for about one second or wait for one minute to exit the menu mode.

The main functions are shown overleaf:

DMX Address	001 - 512	
Channel Set	37Ch/21Ch/15Ch/10Ch/25Ch/39Ch	
Show Mode	Show1	
	Show2	
	Show3	
	Show4	
SlaveMode	Master - Slave1 –Slave2	
Black Out	ON/OFF	
Sound Mode	ON/OFF	
Sound Sense	0-100	
DisplayInvert	Yes-no	
Pan Inverse	Yes-no	
Tilt Inverse	Yes-no	
P/T Feedback	ON/OFF	P/T Feedback
Black P/T Moving	ON/OFF	Black P/T Moving
Dimmer Frequency	1200k,2400k,4000k,6000k	
Fan Speed	Auto/Slow/Height	
Back Light	ON/OFF	
White Balance	Red	125 - 255
	Green	125 - 255
	Blue	125 - 255
Language Setup	English-Chinese	
RDM Infor	0Xxxxxxx	
Auto Test		
Reset	All Reset	Yes/No
	Pan/Tilt Reset	Yes/No
	Zoom Reset	Yes/No
Version	Vxxxx	

4.DMX Channels

37CH Mode

37CH	Function	DMX Values	Details
CH1	Pan	0-255	0-540°
CH2	Pan Fine	0-255	16 bit
CH3	Tilt	0-255	0-270°
CH4	Tilt Fine	0-255	16 bit
CH5	P/T speed	0-255	From slow to fast
CH6	SPECIAL FUNCTIONS	0-69	NULL
		70-79	Moving Blackout Open
		80-89	Moving Blackout Off
		90-99	NULL

CH6	SPECIAL FUNCTIONS	100-109	NULL
		110-119	NULL
		120-139	NULL
		140-149	Pan Tilt Reset
		150-179	NULL
		180-189	Zoom Reset
		190-199	NULL
		200-209	All Reset
		210-255	NULL
CH7	Zoom	0-255	wide to narrow
CH8	Zoom fine	0-255	wide to narrow
CH9	shutter effect	0 - 15	LED_EFFECT_OPEN
		16 - 131	LED_EFFECT_FLASH
		132 - 139	LED_EFFECT_THUNDER
		140 - 181	LED_EFFECT_PULSE_CLOSE_FADE_OPEN
		182 - 189	LED_EFFECT_OPEN
		190 - 231	LED_EFFECT_PULSE_OPEN_FADE_CLOSE
		232 - 239	LED_EFFECT_OPEN
		240 - 247	LED_EFFECT_RANDOM_FLASH
		248 - 255	LED_EFFECT_OPEN
CH10	Dimmer	0-255	Linear dimmer (dark to brightness)
CH11	Dimmer fine	0-255	Linear dimmer (dark to brightness)
CH12	CTC	0	NULL
		1-255	2700K-8000K
CH13	Virtual Color Wheel	0	No function (0=default)
		1-3	White 2700 K
		4-6	White 3200 K
		7-9	White 4200 K
		10-12	White 5600 K
		13-15	White 8000 K
		16	Blue (Blue=full, Red+Green+White=0)
		17-55	Red=0, Green->up, Blue =full, White=0
		56	Light Blue (Red=0, Green=full, Blue =full, White=0)
		57-95	Red=0, Green=full, Blue->down, White=0
		96	Green (Red=0, Green=full, Blue =0, White=0)
		97-134	Red->up, Green=full, Blue=0, White=0
		135	Yellow (Red=full, Green=full, Blue=0, White=0)
		136-174	Red=full, Green->down, Blue=0, White=0
		175	Red(Red=full, Green=0, Blue=0, White=0)
		176-214	Red=full, Green=0, Blue->up, White=0
		215	Magenta (Red=full, Green=0, Blue=full, White=0)
		216-246	Red -> down, Green=0, Blue=full, White=0
		247	Blue (Red=0, Green=0, Blue=full, White=0)
		248-255	NULL
CH14	Red 1	0-255	Red 1 dimmer
CH15	Red 1 fine	0-255	Red 1 fine

CH16	Green 1	0-255	Green 1 dimmer
CH17	Green 1 fine	0-255	Green 1 fine
CH18	Blue 1	0-255	Blue 1 Dimmer
CH19	Blue 1 fine	0-255	Blue 1 fine
CH20	White 1	0-255	White 1 Dimmer
CH21	White 1 fine	0-255	White 1 fine
CH22	Red 2	0-255	Red 2 dimmer
CH23	Red 2 fine	0-255	Red 2 fine
CH24	Green 2	0-255	Green 2 dimmer
CH25	Green 2 fine	0-255	Green 2 fine
CH26	Blue 2	0-255	Blue 2 Dimmer
CH27	Blue 2 fine	0-255	Blue 2 fine
CH28	White 2	0-255	White 2 Dimmer
CH29	White 2 fine	0-255	White 2 fine
CH30	Red 3	0-255	Red 3 dimmer
CH31	Red 3 fine	0-255	Red 3 fine
CH32	Green 3	0-255	Green 3 dimmer
CH33	Green 3 fine	0-255	Green 3 fine
CH34	Blue 3	0-255	Blue 3 Dimmer
CH35	Blue 3 fine	0-255	Blue 3 fine
CH36	White 3	0-255	White 3 Dimmer
CH37	White 3 fine	0-255	White 3 fine

21 CH Mode

21CH	Function	DMX Values	Details
CH1	Pan	0-255	0-540°
CH2	Pan Fine	0-255	16 bit
CH3	Tilt	0-255	0-270°
CH4	Tilt Fine	0-255	16 bit
CH5	P/T speed	0-255	From slow to fast
CH6	SPECIAL FUNCTIONS	0-69	NULL
		70-79	Moving Blackout Open
		80-89	Moving Blackout Off
		90-99	NULL
		100-109	NULL
		110-119	NULL
		120-139	NULL
		140-149	Pan Tilt Reset
		150-179	NULL
		180-189	Zoom Reset
		190-199	NULL
		200-209	All Reset
		210-255	NULL
CH7	Red	0-255	Red
CH8	Red fine	0-255	Red fine
CH9	Green	0-255	Green

CH10	Green fine	0-255	Green fine
CH11	Blue	0-255	Blue
CH12	Blue fine	0-255	Blue fine
CH13	White	0-255	White
CH14	White fine	0-255	White fine
CH15	CTC	0	NULL
		1-255	2700K-8000K
CH16	Virtual Color Wheel	0	No function (0=default)
		1-3	White 2700 K
		4-6	White 3200 K
		7-9	White 4200 K
		10-12	White 5600 K
		13-15	White 8000 K
		16	Blue (Blue=full, Red+Green+White=0)
		17-55	Red=0, Green->up, Blue =full, White=0
		56	Light Blue (Red=0, Green=full, Blue =full, White=0)
		57-95	Red=0, Green=full, Blue->down, White=0
		96	Green (Red=0, Green=full, Blue =0, White=0)
		97-134	Red->up, Green=full, Blue=0, White=0
		135	Yellow (Red=full, Green=full, Blue=0, White=0)
		136-174	Red=full, Green->down, Blue=0, White=0
		175	Red(Red=full, Green=0, Blue=0, White=0)
		176-214	Red=full, Green=0, Blue->up, White=0
		215	Magenta (Red=full, Green=0, Blue=full, White=0)
		216-246	Red -> down, Green=0, Blue=full, White=0
		247	Blue (Red=0, Green=0, Blue=full, White=0)
		248-255	NULL
CH17	Zoom	0-255	wide to narrow
CH18	Zoom fine	0-255	wide to narrow
CH19	shutter effect	0 - 15	LED_EFFECT_OPEN
		16 - 131	LED_EFFECT_FLASH
		132 - 139	LED_EFFECT_THUNDER
		140 - 181	LED_EFFECT_PULSE_CLOSE_FADE_OPEN
		182 - 189	LED_EFFECT_OPEN
		190 - 231	LED_EFFECT_PULSE_OPEN_FADE_CLOSE
		232 - 239	LED_EFFECT_OPEN
		240 - 247	LED_EFFECT_RANDOM_FLASH
		248 - 255	LED_EFFECT_OPEN
CH20	Dimmer	0-255	Linear dimmer (dark to brightness)
CH21	Dimmer fine	0-255	Linear dimmer (dark to brightness)

10 CH Mode

10CH	Function	DMX Values	Details
CH1	Pan	0-255	0-540°
CH2	Pan Fine	0-255	16 bit
CH3	Tilt	0-255	0-270°

CH4	Tilt Fine	0-255	16 bit
CH5	P/T speed	0-255	From slow to fast
CH6	SPECIAL FUNCTIONS	0-69	NULL
		70-79	Moving Blackout Open
		80-89	Moving Blackout Off
		90-99	NULL
		100-109	NULL
		110-119	NULL
		120-139	NULL
		140-149	Pan Tilt Reset
		150-179	NULL
		180-189	Zoom Reset
		190-199	NULL
		200-209	All Reset
		210-255	NULL
CH7	Zoom	0-255	wide to narrow
CH8	Zoom fine	0-255	wide to narrow
CH9	shutter effect	0 - 15	LED_EFFECT_OPEN
		16 - 131	LED_EFFECT_FLASH
		132 - 139	LED_EFFECT_THUNDER
		140 - 181	LED_EFFECT_PULSE_CLOSE_FADE_OPEN
		182 - 189	LED_EFFECT_OPEN
		190 - 231	LED_EFFECT_PULSE_OPEN_FADE_CLOSE
		232 - 239	LED_EFFECT_OPEN
		240 - 247	LED_EFFECT_RANDOM_FLASH
		248 - 255	LED_EFFECT_OPEN
CH10	Dimmer	0-255	Linear dimmer (dark to brightness)

15 CH Mode

15CH	Function	DMX Values	Details
CH1	Pan	0-255	0-540°
CH2	Pan Fine	0-255	16 bit
CH3	Tilt	0-255	0-270°
CH4	Tilt Fine	0-255	16 bit
CH5	P/T speed	0-255	From slow to fast
CH6	SPECIAL FUNCTIONS	0-69	NULL
		70-79	Moving Blackout Open
		80-89	Moving Blackout Off
		90-99	NULL
		100-109	NULL
		110-119	NULL
		120-139	NULL
		140-149	Pan Tilt Reset
		150-179	NULL
		180-189	Zoom Reset
		190-199	NULL

CH6	SPECIAL FUNCTIONS	200-209	All Reset
		210-255	NULL
CH7	CTC	0	NULL
		1-255	2700K-8000K
CH8	Virtual Color Wheel	0	No function (0=default)
		1-3	White 2700 K
		4-6	White 3200 K
		7-9	White 4200 K
		10-12	White 5600 K
		13-15	White 8000 K
		16	Blue (Blue=full, Red+Green+White=0)
		17-55	Red=0, Green->up, Blue =full, White=0
		56	Light Blue (Red=0, Green=full, Blue =full, White=0)
		57-95	Red=0, Green=full, Blue->down, White=0
		96	Green (Red=0, Green=full, Blue =0, White=0)
		97-134	Red->up, Green=full, Blue=0, White=0
		135	Yellow (Red=full, Green=full, Blue=0, White=0)
		136-174	Red=full, Green->down, Blue=0, White=0
		175	Red(Red=full, Green=0, Blue=0, White=0)
		176-214	Red=full, Green=0, Blue->up, White=0
		215	Magenta (Red=full, Green=0, Blue=full, White=0)
		216-246	Red -> down, Green=0, Blue=full, White=0
		247	Blue (Red=0, Green=0, Blue=full, White=0)
		248-255	NULL
CH9	Red	0-255	Red
CH10	Green	0-255	Green
CH11	Blue	0-255	Blue
CH12	White	0-255	White
CH13	Zoom	0-255	wide to narrow
CH14	shutter effect	0 - 15	LED_EFFECT_OPEN
		16 - 131	LED_EFFECT_FLASH
		132 - 139	LED_EFFECT_THUNDER
		140 - 181	LED_EFFECT_PULSE_CLOSE_FADE_OPEN
		182 - 189	LED_EFFECT_OPEN
		190 - 231	LED_EFFECT_PULSE_OPEN_FADE_CLOSE
		232 - 239	LED_EFFECT_OPEN
		240 - 247	LED_EFFECT_RANDOM_FLASH
		248 - 255	LED_EFFECT_OPEN
CH15	Dimmer	0-255	Linear dimmer (dark to brightness)

25 CH Mode

25CH	Function	DMX Values	Details
CH1	Pan	0-255	0-540°
CH2	Pan Fine	0-255	16 bit
CH3	Tilt	0-255	0-270°
CH4	Tilt Fine	0-255	16 bit

CH5	P/T speed	0-255	From slow to fast
CH6	SPECIAL FUNCTIONS	0-69	NULL
		70-79	Moving Blackout Open
		80-89	Moving Blackout Off
		90-99	NULL
		100-109	NULL
		110-119	NULL
		120-139	NULL
		140-149	Pan Tilt Reset
		150-179	NULL
		180-189	Zoom Reset
		190-199	NULL
		200-209	All Reset
		210-255	NULL
CH7	Red 1	0-255	Red 1 dimmer
CH8	Green 1	0-255	Green 1 dimmer
CH9	Blue 1	0-255	Blue 1 Dimmer
CH10	White 1	0-255	White 1 Dimmer
CH11	Red 2	0-255	Red 2 dimmer
CH12	Green 2	0-255	Green 2 dimmer
CH13	Blue 2	0-255	Blue 2 Dimmer
CH14	White 2	0-255	White 2 Dimmer
CH15	Red 3	0-255	Red 3 dimmer
CH16	Green 3	0-255	Green 3 dimmer
CH17	Blue 3	0-255	Blue 3 Dimmer
CH18	White 3	0-255	White 3 Dimmer
CH19	CTC	0	NULL
		1-255	2700K-8000K
CH20	Virtual Color Wheel	0	No function (0=default)
		1-3	White 2700 K
		4-6	White 3200 K
		7-9	White 4200 K
		10-12	White 5600 K
		13-15	White 8000 K
		16	Blue (Blue=full, Red+Green+White=0)
		17-55	Red=0, Green->up, Blue =full, White=0
		56	Light Blue (Red=0, Green=full, Blue =full, White=0)
		57-95	Red=0, Green=full, Blue->down, White=0
		96	Green (Red=0, Green=full, Blue =0, White=0)
		97-134	Red->up, Green=full, Blue=0, White=0
		135	Yellow (Red=full, Green=full, Blue=0, White=0)
		136-174	Red=full, Green->down, Blue=0, White=0
		175	Red(Red=full, Green=0, Blue=0, White=0)
		176-214	Red=full, Green=0, Blue->up, White=0
		215	Magenta (Red=full, Green=0, Blue=full, White=0)
		216-246	Red -> down, Green=0, Blue=full, White=0

CH20	Virtual Color Wheel	247	Blue (Red=0, Green=0, Blue=full, White=0)
		248-255	NULL
CH21	Zoom	0-255	wide to narrow
CH22	Zoom fine	0-255	wide to narrow
CH23	shutter effect	0 - 15	LED_EFFECT_OPEN
		16 - 131	LED_EFFECT_FLASH
		132 - 139	LED_EFFECT_THUNDER
		140 - 181	LED_EFFECT_PULSE_CLOSE_FADE_OPEN
		182 - 189	LED_EFFECT_OPEN
		190 - 231	LED_EFFECT_PULSE_OPEN_FADE_CLOSE
		232 - 239	LED_EFFECT_OPEN
		240 - 247	LED_EFFECT_RANDOM_FLASH
		248 - 255	LED_EFFECT_OPEN
CH24	Dimmer	0-255	Linear dimmer (dark to brightness)
CH25	Dimmer fine	0-255	Linear dimmer (dark to brightness)

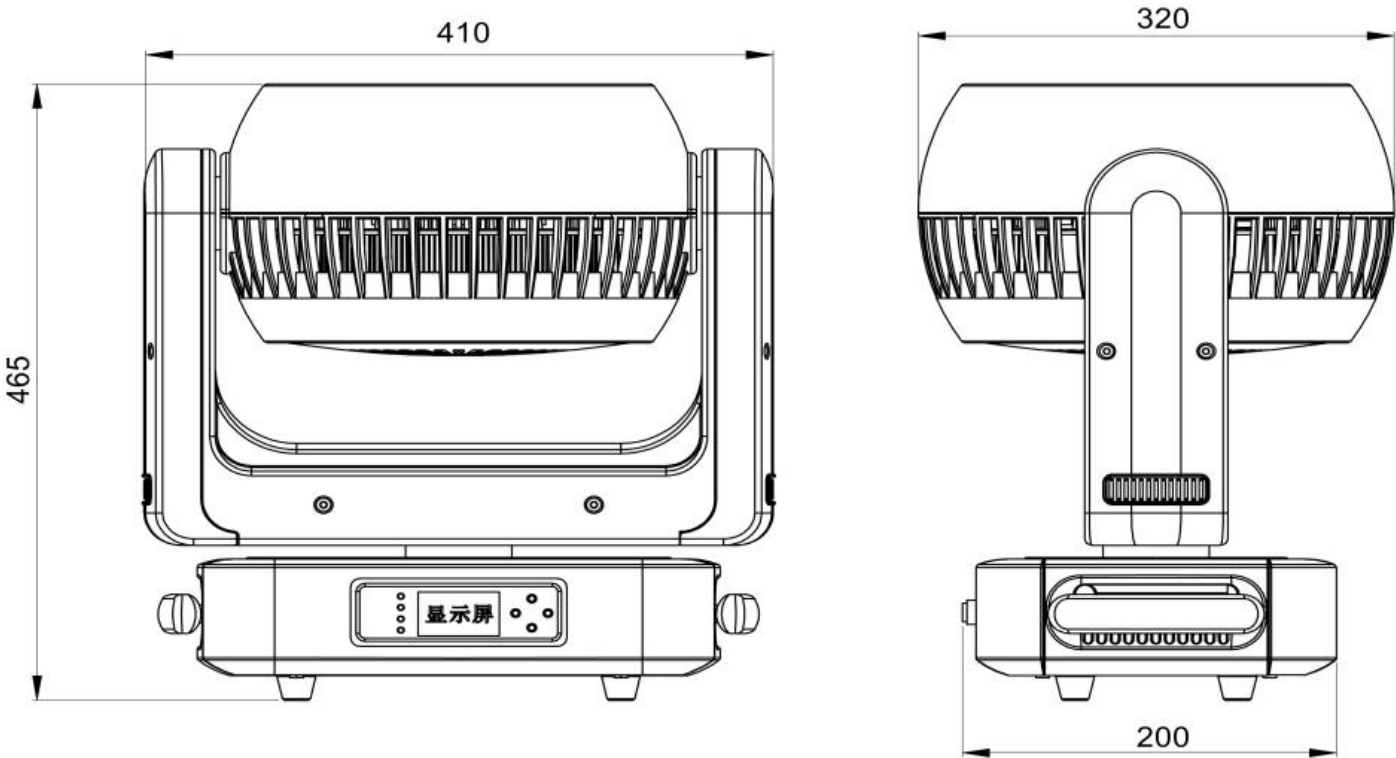
39 CH Mode

39CH	Function	DMX Values	Details
CH1	Pan	0-255	0-540°
CH2	Pan Fine	0-255	16 bit
CH3	Tilt	0-255	0-270°
CH4	Tilt Fine	0-255	16 bit
CH5	P/T speed	0-255	From slow to fast
CH6	SPECIAL FUNCTIONS	0-69	NULL
		70-79	Moving Blackout Open
		80-89	Moving Blackout Off
		90-99	NULL
		100-109	NULL
		110-119	NULL
		120-139	NULL
		140-149	Pan Tilt Reset
		150-179	NULL
		180-189	Zoom Reset
		190-199	NULL
		200-209	All Reset
		210-255	NULL
CH7	Red 1	0-255	Red 1 dimmer
CH8	Red 1 fine	0-255	Red 1 fine
CH9	Green 1	0-255	Green 1 dimmer
CH10	Green 1 fine	0-255	Green 1 fine
CH11	Blue 1	0-255	Blue 1 Dimmer
CH12	Blue 1 fine	0-255	Blue 1 fine
CH13	White 1	0-255	White 1 Dimmer
CH14	White 1 fine	0-255	White 1 fine
CH15	Red 2	0-255	Red 2 dimmer
CH16	Red 2 fine	0-255	Red 2 fine

CH17	Green 2	0-255	Green 2 dimmer
CH18	Green 2 fine	0-255	Green 2 fine
CH19	Blue 2	0-255	Blue 2 Dimmer
CH20	Blue 2 fine	0-255	Blue 2 fine
CH21	White 2	0-255	White 2 Dimmer
CH22	White 2 fine	0-255	White 2 fine
CH23	Red 3	0-255	Red 3 dimmer
CH24	Red 3 fine	0-255	Red 3 fine
CH25	Green 3	0-255	Green 3 dimmer
CH26	Green 3 fine	0-255	Green 3 fine
CH27	Blue 3	0-255	Blue 3 Dimmer
CH28	Blue 3 fine	0-255	Blue 3 fine
CH29	White 3	0-255	White 3 Dimmer
CH30	White 3 fine	0-255	White 3 fine
CH31	CTC	0	NULL
		1-255	2700K-8000K
CH32	Virtual Color Wheel	0	No function (0=default)
		1-3	White 2700 K
		4-6	White 3200 K
		7-9	White 4200 K
		10-12	White 5600 K
		13-15	White 8000 K
		16	Blue (Blue=full, Red+Green+White=0)
		17-55	Red=0, Green->up, Blue =full, White=0
		56	Light Blue (Red=0, Green=full, Blue =full, White=0)
		57-95	Red=0, Green=full, Blue->down, White=0
		96	Green (Red=0, Green=full, Blue =0, White=0)
		97-134	Red->up, Green=full, Blue=0, White=0
		135	Yellow (Red=full, Green=full, Blue=0, White=0)
		136-174	Red=full, Green->down, Blue=0, White=0
		175	Red(Red=full, Green=0, Blue=0, White=0)
		176-214	Red=full, Green=0, Blue->up, White=0
		215	Magenta (Red=full, Green=0, Blue=full, White=0)
		216-246	Red -> down, Green=0, Blue=full, White=0
		247	Blue (Red=0, Green=0, Blue=full, White=0)
		248-255	NULL
CH33	Zoom	0-255	wide to narrow
CH34	Zoom fine	0-255	wide to narrow
CH35	shutter effect	0 - 15	LED_EFFECT_OPEN
		16 - 131	LED_EFFECT_FLASH
		132 - 139	LED_EFFECT_THUNDER
		140 - 181	LED_EFFECT_PULSE_CLOSE_FADE_OPEN
		182 - 189	LED_EFFECT_OPEN
		190 - 231	LED_EFFECT_PULSE_OPEN_FADE_CLOSE
		232 - 239	LED_EFFECT_OPEN
		240 - 247	LED_EFFECT_RANDOM_FLASH

CH35	shutter effect	248 - 255	LED_EFFECT_OPEN
CH36	Dimmer	0-255	Linear dimmer (dark to brightness)
CH37	Dimmer fine	0-255	Linear dimmer (dark to brightness)
CH38	Dynamic	000 - 007	NO EFFECT
		008 - 255	EFFECT MODE (4 EFFECT)
CH39	Dynamic Speed	000 - 255	EFFECT Speed

5.Dimension



6. 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.

C. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition

7. 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.