KUDUX®
STAGE TECHNOLOGY

PRO BWS 500

500W RGBW LED



! Please read the manual before installing and using this lighting

Keep it for future reference

Remark:

Errors and omissions for every information given in this manual except.

All information is subject to change without prior notice.

Manual instruction

V1.1

Contents:

1. INTRODUCTION 3
2. SAFETY INSTRUCTIONS 4
3. CLEANING AND MAINTENANCE 4
4. STATEMENT 4
5. TECHNICAL PARAMETERS 5
6. FIXTURE SIZE 6
7. PHOTOMETRICS 7
8. FUNCTIONS OF BUTTONS 7
9. MENU FUNCTION 9
10. DMX CHANNEL LIST 10
11. CHANNEL DETAIL 11
12. TROUBLESHOOTING 18
13. CONTACT: 18

Thank you for your patronage!

We are confident that our excellent products and service can satisfy you.

For your own safety, please read this user manual carefully before installing the device.

In order to install, operate, and maintain the lighting safety correctly, we suggest that the installation and operation should be done by the verified technician and follow the instruction strictly.



CAUTION!

Keep this device away from rain and moisture!

Unplug 

CAUTION!

mains lead before opening the housing!

Everyone involved with the installation, operation and maintenance of this device has to:

-be qualified

-follow carefully the instructions of this manual

1. INTRODUCTION

Thank you for having chosen this professional stage light.

You will see you have acquired a powerful and versatile device.

After unpacking, the accessories for each lamp should include:

1. One powerCON cable
2. One 3-Pin XLR cable
3. One safety rope

(Flight case and Clamp are optional, please contact your dealer.)

Please check carefully that there is no damage caused by transportation. Should there be any questions, please consult your dealer and don't install this device.

2. SAFETY INSTRUCTIONS

1. In order to ensure the lifespan of the product, the product must not be placed in a wet or leaky place. The maximum working environment temperature cannot exceed 40℃, and the minimum cannot be lower than -20℃.
2. Do not place the product in a place where it is easy to loose or vibrate.
3. In order to avoid the risk of electric shock, the maintenance of the product should be done by professionals.
4. Check whether the voltage, frequency and other electrical data of the light power supply line are consistent with the voltage and frequency parameters marked on the light, so as to avoid voltage mismatch and burn out the light.
5. When the light is in use, the power supply voltage change should not exceed ±10%.
6. The light is designed according to the type of protection against electric shock, and the light should be connected to a power supply system with sufficient grounding. And the earth wire of the light must be connected with the earth wire of the power supply system, and the earth mark on the metal shell of the light must be securely connected with the light holder.
7. Please do not look directly at the light source, as it may damage the retina of the eye and cause blindness.
8. Do not touch the device at will during use to avoid burns caused by high temperature.
9. Please do not project the beam on combustibles. The distance between the light output port and the surface of combustibles must be greater than 15 meters.
10. The light should be installed in a well-ventilated place, with a distance of 50 cm or more from the wall. Also, check that the fans and vents are unobstructed.

3. CLEANING AND MAINTENANCE

1. The light should be kept dry and avoid working in a humid environment.
2. Intermittent use will effectively prolong the life of the lamp.
3. In order to obtain good ventilation and lighting effects, pay attention to cleaning the fan, fan net and lens frequently.
4. Do not wipe the housing of the light with alcohol or other organic solvents to avoid damage.

4. STATEMENT

When the product is shipped from the factory, its performance is intact and the packaging is complete. All users should strictly abide by the warnings and operating instructions stated above. Any damage caused by misuse is not covered by the company's warranty. Failures and problems caused by ignoring the operation manual are not within the responsibility of the dealer.

Note: Based on our company's policy of continuous product improvement, the data contained in this manual may change in the future, and will no longer notify the changes. The company reserves the right to change the relevant specification data when the product is improved.

The publisher of this manual will not assume any responsibility for the consequences of such information.

5. TECHNICAL PARAMETERS

Power supply

AC100 - 240V, 50/60 Hz

Power consumption: 570W

Light source

500W LED

Average life: 20000 hrs

Color temperature: 8000K

CRI:85(Standard) / 92(CRI Filter)

Effect

Zoom angle: 2°(Beam), 3-45°(Spot)

128700lux@5m@Min angle

4 Color wheels: 7 colors + white, Double-sided Rainbow Effect

CMY color mixing, CTO, High CRI Filter

Fixed gobo wheel: 10 gobos + white

Rotating gobo wheel: 8 gobos + white

Prism: linear 6 & 6-facet prism

Stackable,Bi-direction

Frost filter for soft-edge projection

Focusing: 0-100% linear

Dimming: 0-100% linear,16-bit Dimming Curve Modes

Strobe: 1-25 Hz, synchronous, random and pulse flash

Pan/Tilt magnetic coding +Sensor accurate positioning

Control

Pan/Tilt: 540/270°

Control mode: DMX512/RDM

DMX channels: 31

XLR in & out: 3-pin

Packed

Net weight: 23kg

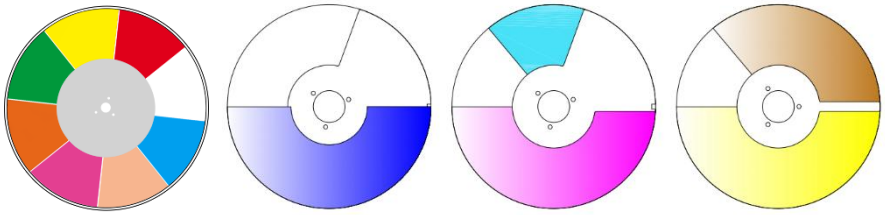
Carton box size(1-in-1): 81×50×40cm

Gross weight: 28kg

Flight case size(2-in-1): 76×45×90cm

Gross weight: 75kg

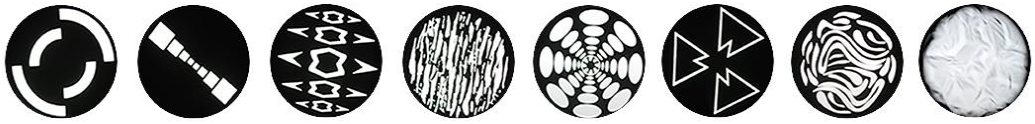
CMY Color wheel



Fixed gobo wheel



Rotating gobo wheel

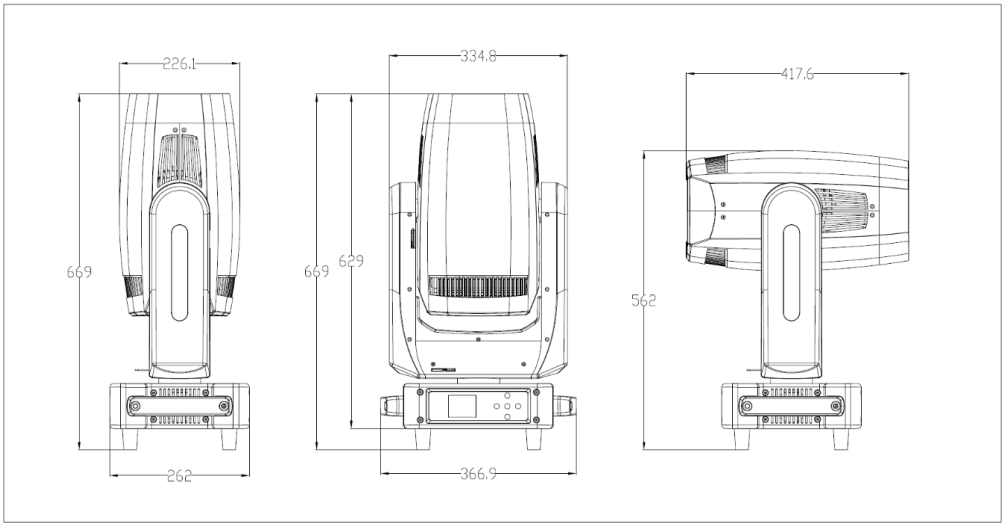


Rotating Gobo: Φ19mm

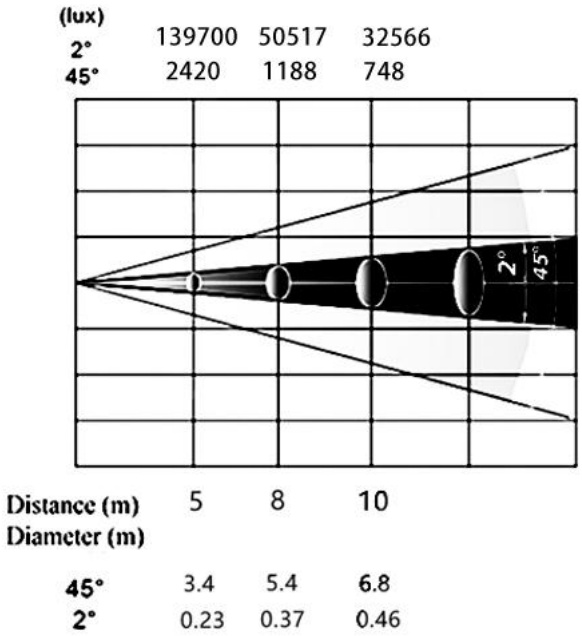
Image: Φ13mm

Thickness: Φ1.1mm

6. FIXTURE SIZE



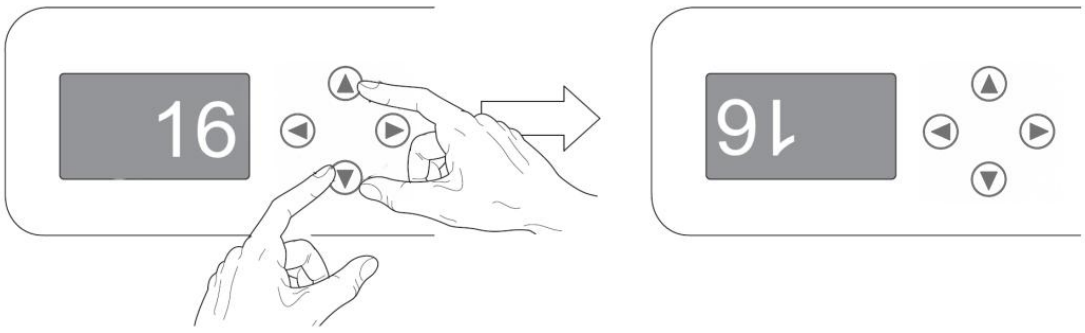
7. PHOTOMETRICS



8. FUNCTIONS OF BUTTONS

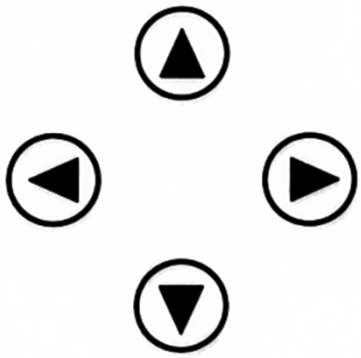
Reversal of the display

To activate this function, press UP and DOWN keys simultaneously while the display is in the rest mode. This status will be memorised and maintained even for the next time it will be switched on. To return to the initial state, repeat the operation all over again.



Button description:

	OK	Confirms the displayed value, or activates the displayed function, or enters the successive menu.
	DOWN	Decreases the value displayed (with auto-repetitions) or passes to the next item in the menu.
	UP	Increases the value displayed (with auto-repetitions) or passes to the previous item in a menu.

	LEFT Return to the top level.
	RIGHT Commute from units, tens, hundreds, in the "Address", "Fixture ID" and "Calibration" menu.

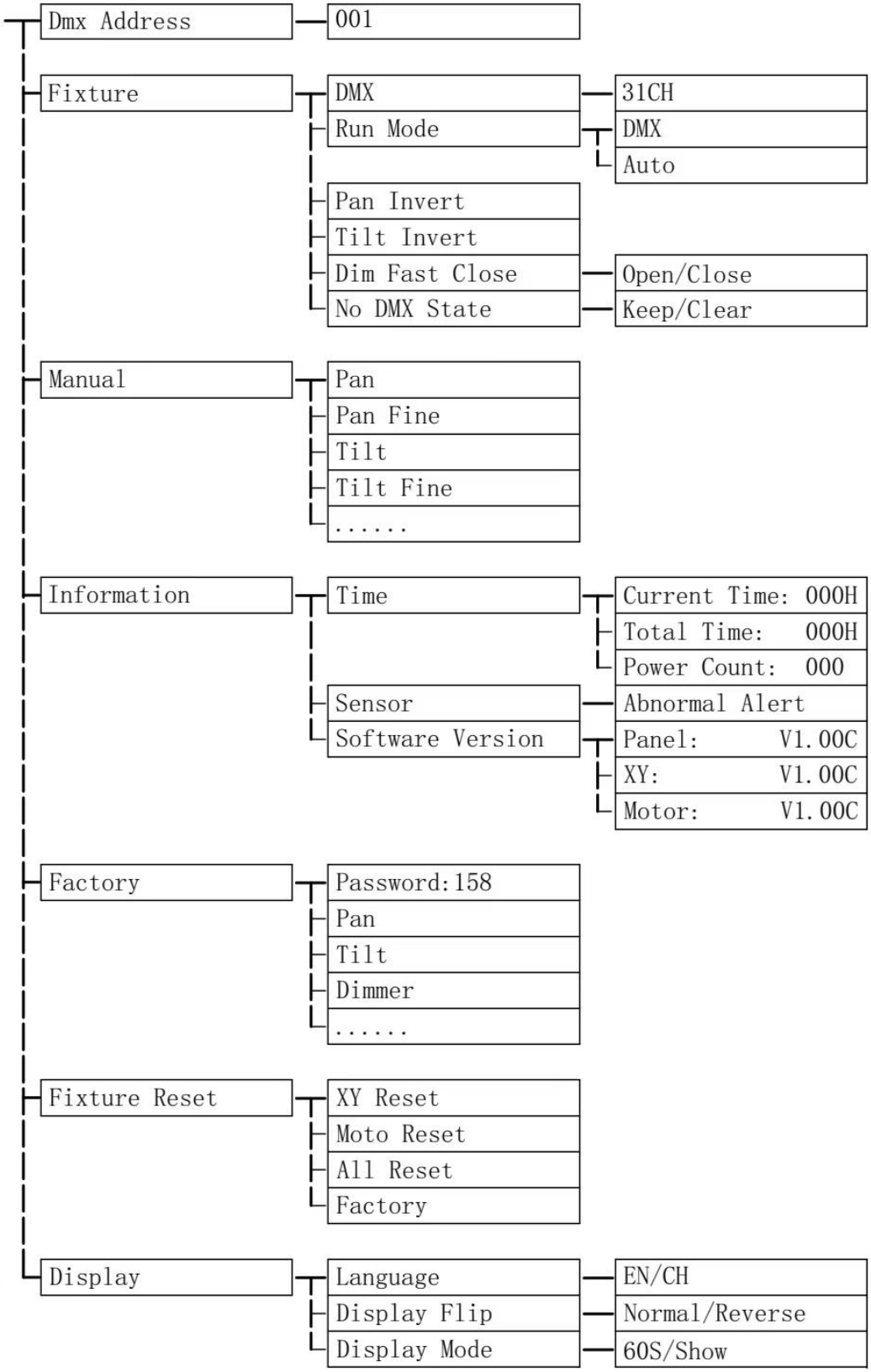
Advanced Menu:

1.Long press the left button for 3 second on boot screen.

2. Enter the password “158” after a new window pops up.

3.Can adjust the pan tilt initial position and reset the hours of fixture use.

9. MENU FUNCTION



10.DMX CHANNEL LIST

CHANNEL	*31 CHANNEL*
1	Pan movement
2	Pan movement fine
3	Tilt movement
4	Tilt movement fine
5	Cyan
6	Cyan fine control
7	Magenta
8	Magenta fine control
9	Yellow
10	Yellow fine control
11	CMY mix mode
12	Color wheel
13	Rotating gobo wheel
14	Rotating gobo rotation
15	Rotating gobo fine
16	Fixed gobo wheel
17	Prism 1 / Prism 2
18	Prism 1 rotation
19	Prism 2 rotation
20	Focus
21	Fine focus
22	Zoom
23	Fine zoom

24	Strobe
25	Dimmer
26	Dimmer fine
27	Free
28	CTO
29	Frost
30	Function
31	Control/ Reset

11.CHANNEL DETAIL

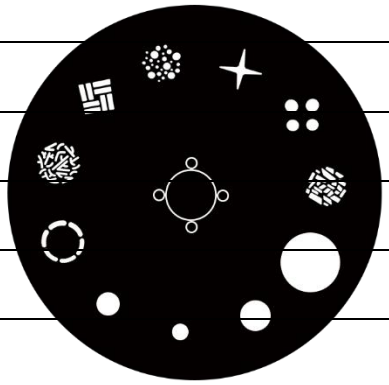
CH	***DMX Value***	***Function***
1	000 - 255	**Pan Movement**
2	000 - 255	**Pan Movement Fine**
3	000 - 255	**Tilt Movement**
4	000 - 255	**Tilt Movement Fine**
5		**Cyan**
	000 - 170	Cyan (0 – 100%)
	171 - 189	White (100% - Open)
	190 - 221	From shallow to deep, from slow to fast
	222 - 223	White
	224 - 239	Fast speed from shallow to deep, from slow to fast
	240 - 255	Slow speed from shallow to deep, from slow to fast
6	000 - 255	**Cyan Fine Control**
7		**Magenta**
	000 – 170	Magenta (0 – 100%)
	171 – 189	white

	190 – 221	From shallow to deep, from slow to fast
	222 – 223	white
	224 – 239	Fast speed from shallow to deep, from slow to fast
	240 – 255	Slow speed from shallow to deep, from slow to fast
8	000 - 255	**Magenta Fine Control**
9		**Yellow**
	000 - 170	Yellow (0 - 100%)
	171 - 189	White
	190 - 221	From shallow to deep, from slow to fast
	222 - 233	White
	234 - 239	Fast speed from shallow to deep, from slow to fast
	240 - 255	Slow speed from shallow to deep, speed from slow to fast
10	000 - 255	**Yellow Fine Control**
11		**CMY**
	000 - 127	Free
	128 - 255	CMY
12		**Color Wheel**
	000 - 005	Open
	006 - 010	White/Red
	011 - 015	Red
	016 - 020	Red/Yellow
	021 - 025	Yellow
	026 - 030	Yellow/Light Green
	031 - 035	Light Green
	036 - 040	Green/Orange
	041 - 045	Orange
	046 - 050	Orange/Pink

	051 - 055	Pink
	056 - 060	Pink/CTO
	061 - 065	CTO
	066 - 070	High CRI color
	071 - 075	CTO/High CRI color
	076 - 080	CTO/Light blue
	081 - 085	Light blue
	086 - 090	Light blue/White
	091 - 100	Open
	Combinations (see combination table for reference)	
	101	Free
	102	High CRI Filter
	103	
	104	
	105	
	106	
	107	
	108	
	109	
	110	
	111 - 127	Free
	128 - 189	Scroll clockwise, from fast to slow
	190 - 193	Stop
	194 - 255	Scroll counter-clockwise, from slow to fast
13		**Rotating Gobo**
	000 - 002	Open
	003 - 005	White

	006 - 012	Gobo 1 
	013 - 019	Gobo 2 
	020 - 026	Gobo 3 
	027 - 033	Gobo 4 
	034 - 040	Gobo 5 
	041 - 047	Gobo 6 
	048 - 054	Gobo 7 
	055 - 061	Gobo 8 
	062 - 077	Gobo 1 shakes at variable speed from slow to fast
	078 - 093	Gobo 2 shakes at variable speed from slow to fast
	094 - 109	Gobo 3 shakes at variable speed from slow to fast
	110 - 125	Gobo 4 shakes at variable speed from slow to fast
	126 - 141	Gobo 5 shakes at variable speed from slow to fast
	142 - 157	Gobo 6 shakes at variable speed from slow to fast
	158 - 173	Gobo 7 shakes at variable speed from slow to fast
	174 - 189	Gobo 8 shakes at variable speed from slow to fast
	190 - 221	Rotate the Rotated Gobo Wheel Clockwise, Fast to Slow
	222 - 223	Stop
	224 - 255	Rotate the Rotated Gobo Wheel Counter-Clockwise, Slow to Fast
14		**Rotating Gobo Rotation**
	000 - 127	0-540°

	128 - 189	Clockwise Gobo Scroll, Fast to Slow
	190 - 193	No Rotation
	194 - 255	Counter-Clockwise Gobo Scroll, Slow to Fast
15	000 - 255	**Rotating Gobo Wheel Rotation Fine-tuning**
16		**Fixed Gobo**
	000 - 005	White
	006 - 014	Fixed Gobo 1
	015 - 023	Fixed Gobo 2
	024 - 032	Fixed Gobo 3
	033 - 041	Fixed Gobo 4
	042 - 050	Fixed Gobo 5
	051 - 059	Fixed Gobo 6
	060 - 068	Fixed Gobo 7
	069 - 077	Fixed Gobo 8
	078 - 086	Fixed Gobo 9
	087 - 095	Fixed Gobo 10
	096 - 104	Fixed Gobo 1 Shake, Slow to Fast
	105 - 113	Fixed Gobo 2 Shake, Slow to Fast
	114 - 122	Fixed Gobo 3 Shake, Slow to Fast
	123 - 131	Fixed Gobo 4 Shake, Slow to Fast
	132 - 140	Fixed Gobo 4 Shake, Slow to Fast
	141 - 149	Fixed Gobo 4 Shake, Slow to Fast
	150 - 158	Fixed Gobo 4 Shake, Slow to Fast
	159 - 167	Fixed Gobo 4 Shake, Slow to Fast
	168 - 176	Fixed Gobo 4 Shake, Slow to Fast
	177 - 185	Fixed Gobo 4 Shake, Slow to Fast
	186 - 217	Fixed gobo wheel rotates clockwise, from fast to slow



	218 - 223	Stop
	224 - 255	Fixed gobo wheel rotates counter-clockwise, from slow to fast
17		**Prism Macro**
	000 - 020	Free
	021 - 040	Prism 1
	041 - 060	Prism 2
	061 - 080	Prism 1+Prism 2
18		**Prism 1 Rotation/Speed**
	000 - 127	Prism 1 (0-360°)
	128 - 189	Clockwise Prism Rotation, Fast to Slow
	190 - 193	Stop Rotation
	194 - 255	Counter-clockwise Prism Rotation, Slow to Fast
19		**Prism 2 Rotation/Speed**
	000 - 127	Prism 2 (0-360°)
	128 - 189	Clockwise Prism Rotation, Fast to Slow
	190 - 193	Stop Rotation
	194 - 255	Counter-clockwise Prism Rotation, Slow to Fast
20		**FOCUS**
	000 - 255	Linear focus 0-100%
21	000 - 255	**FOCUS FINE**
22		**ZOOM**
	000 - 255	Linear zoom
23		**ZOOM**
	000 - 255	Zoom fine
24		**STROBE**
	000 - 031	Light OFF
	032 - 063	Light ON

	064 - 095	Fast strobe, from slow to fast
	096 - 127	Light ON
	128 - 159	Pulse strobe, from slow to fast
	160 - 191	Light ON
	192 - 223	Random Strobe, from slow to fast
	224 - 255	Light ON
25	000 - 255	**LINEAR DIMMING 0-100%**
26	000 - 255	**DIMMING FINE**
27		**NO FUNCTION**
28		**CTO**
	000 - 255	CTO (0-100%)
29		**FROST**
	000 - 127	No function
	128 - 255	Frost
30		**PAN/TILT SPEED**
	000 - 255	From fast to slow
31		**CONTROL/RESET**
	000 - 079	No function
	080 - 084	All motors reset
	085 - 087	Pan / Tilt Reset
	088 - 096	Head motor reset
	097 - 099	Dimming turns off slowly and starts after 3 seconds
	100 - 102	Dimming turns off quickly and starts after 3 seconds (default)
	103 - 255	No function

IMPORTANT
To prevent accidental breakage of the effects, which could collide with each others during transport, before switching the projector OFF, check that all the fixture Channels have been excluded (DMX level = 0 bit.).
Remember to ‘’Switch-Off’’ the bulb, before to ‘’Switch-Off’’ the fixture.

Remark:

Errors and omissions for every information given in this manual accepted.
All information is subject to change without prior notice.

12.TROUBLESHOOTING

A. Lights can’t work, no lights out

- 1. Check power connection, the fuse whether is ok.
- 2. Check power input whether correct
- B. Can’t DMX control
- 1. DMX signal indicator must be on, if not, check the DMX cable
- 2. If DMX signal is OK, check the DMX address whether set OK
- 3. If DMX signal not consistent, check the DMX port connect.

13.CONTACT:

Please check who is our dealer in your country at our website

www.kudux.com

or write direct to us by email: office@kudux.com