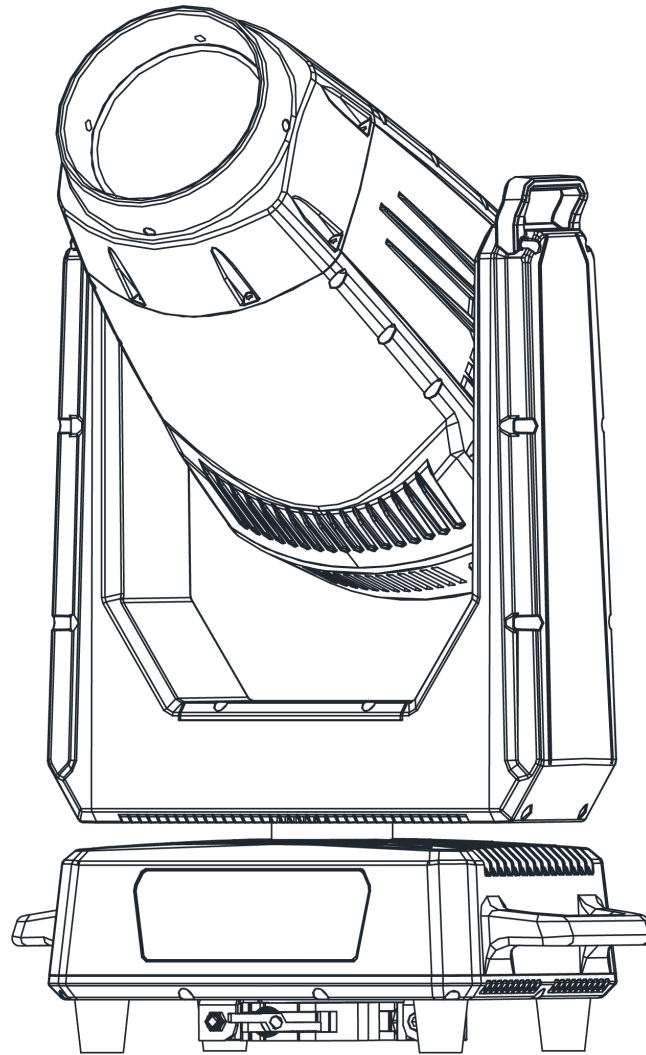


# BSW 420 IP



## USER MANUAL

KEEP THIS USER MANUAL FOR FUTURE NEEDS



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!



**CAUTION!**

Unplug mains lead before device's installation, cleaning and maintenance!

Every person involved with the installation, operation and maintenance of device has to:

-be qualified

-follow carefully the instructions of this manual

## INTRODUCTION

Thank you for having chosen this professional moving head.

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

Unpack the device. Inside the carton box you should find:

1. One power in cable
2. One 3 Pin DMX cable(5 Pin optional)
3. Folding Clamps
4. One safety rope
5. One English user manual

(Flight case is 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.

## GENERAL GUIDELINES

This device is a lighting effect for a professional use on stages, TV, in discotheques, theaters, etc., The device was designed for indoor use only.

This fixture is only allowed to be operated with the max alternating current which stated in the technical specifications in 6<sup>th</sup> page of this manual.

Lighting effects are not designed for permanent operation. Consistent operation breaks may ensure that the device will serve you for a long time without defects.

Do not shake the device. Avoid brute force when installing or operating the device.

While choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. Please don't project the beam onto combustible substances. The minimum distance between light-output from the projector and the illuminated surface must be more than 0,5 meter.

If you use the quick lock cam in hanging up the fixture, please make sure the quick lock

fasteners turned in the quick lock holes correctly.

Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation.

Please use the original packaging if the device is to be transported.

For safety reasons, please be aware that all modifications on the device are forbidden. If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to short-circuit, burns, electric shock, crash, etc.

## SAFETY INSTRUCTIONS



### CAUTION!

Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

1. In order to guarantee the product's life, please don't put it in the damp places or even the environment over 60degrees.
2. Always mount this unit in safe and stable matter.

The qualified professionals are allowed to carry out the lamp installation, operation and maintenance, but they must guarantee to operate in strict accordance with the instructions referred to.

### ▲ Important:

**Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.**

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperatures.

This device falls under protection-class I . Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord. During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

**CAUTION!**

Never touch the device during operation!  
The housing may heat up!

**CAUTION!**

Never look directly into the light source,  
As sensitive persons may suffer an epileptic shock.

**Please be aware that damages caused by manual modifications to be the device are not subject to warranty. Keep away from children and non-professionals.**

## **CLEANING AND MAINTENANCE**

1. To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
2. Do not spill water or other liquids into or on to your unit.
3. During long periods of non-use, disconnect the unit's main power.
4. It should be installed in a well-ventilated place, at a distance of 50 centimeters or more with the walls. At the same time, please check if the fan and ventilation holes are unobstructed.

The following points have to be considered during the inspection

- 1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on the housing. Fixations and installations spots(ceiling, suspension, trussing).
- 3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
- 4) The electric power supply cables must not show any damage, material fatigue or sediments. Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.

**CAUTION!**

Disconnect from mains before starting maintenance operation!

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

- 1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
- 2) Clean the fan each week.
- 3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device.

Please use a moist, lint-free cloth. Never use alcohol or solvents !

# TECHNICAL PARAMETERS

## LIGHT SOURCE & OPTIC

Light source: 420W long-life gas discharge bulb

Lifespan: 3000H

Color temperature: 7800K

Lens diameter: 138mm

Beam angle: 2-40 degrees

## EFFECTS

Fixed color wheel with 11 dichroic colors

3200-7500K CTO linear adjustable

1 Static Gobo Wheel with 11 gobos

one rotatable gobo plate with 8 gobos, which can be customized

Strobe: Multiple speed strobe

Dimming: 0-100% smooth dimming

Focus: Electric focus system

## CONTROL & PROGRAM

4 touch buttons

Control: DMX512/RDM optional Artnet/voice-activated/auto-programmed

DMX Channel: 18CH/22CH

## POWER SUPPLY

Input voltage: AC90-240V 50/60Hz

Consumed Power: 600W

Power connectors: Waterproof power connector input/output

DMX connectors: 3 pin or 5 pin waterproof XLR socket

## MOVEMENT

Pan: 540 degrees / Tilt: 270 degrees

P/T position: Auto correction

P/T: 16bit scanning

## BODY

Working in any position

Magnesium Aluminum IP66 body

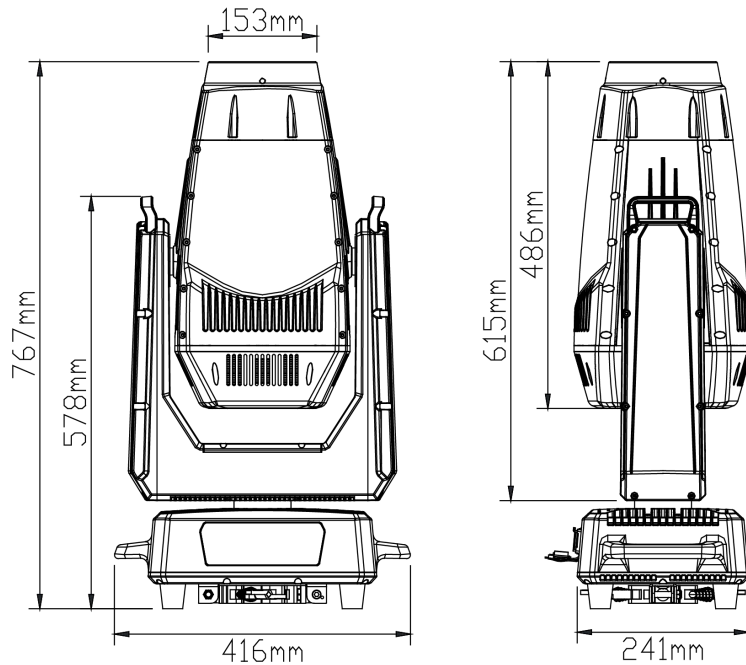
Two side handles for transportation

## WEIGHT & SIZE

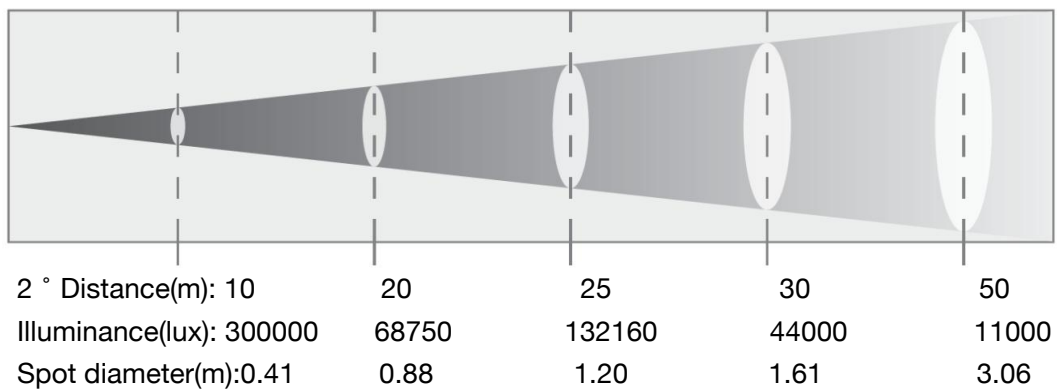
NW: 24kg(Not including clamps)

Carton box 1in1:700\*600\*500mm/26KG

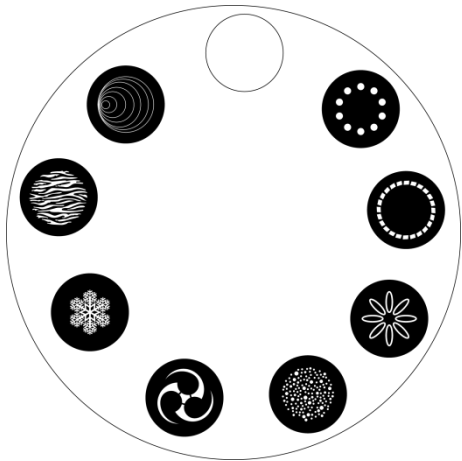
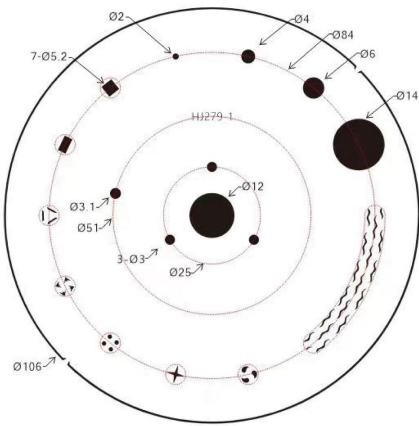
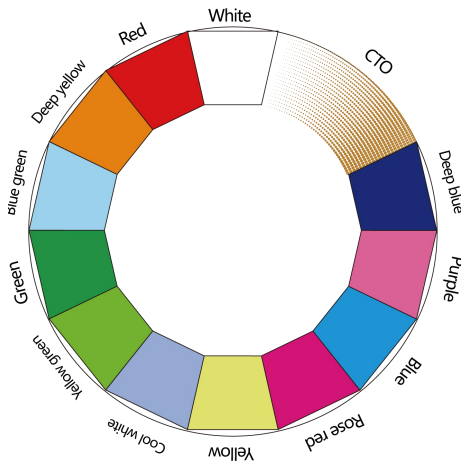
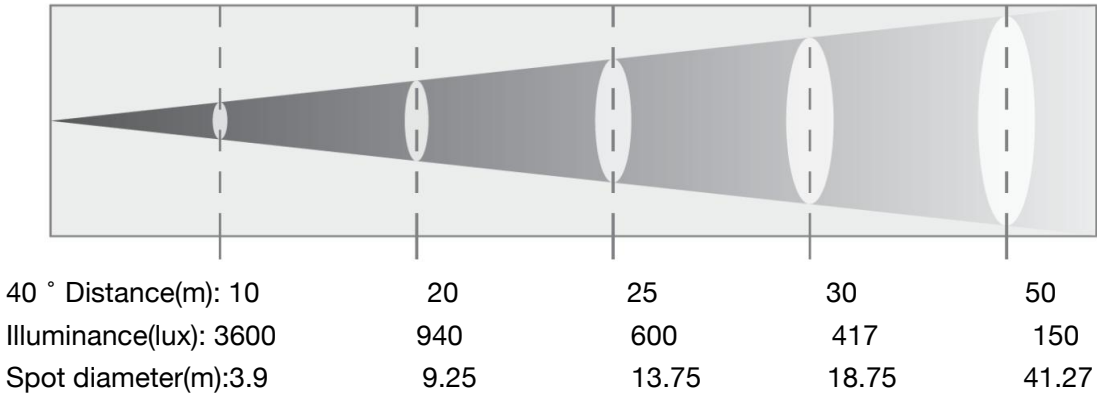
Flight case 2in1:950\*990\*800mm/85KG



## PHOTOMEREICS DIAGRAM



PHOTOMEREICS DIAGRAM



MENU

|         |         |         |         |         |         |
|---------|---------|---------|---------|---------|---------|
| LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 | LEVEL 5 | LEVEL 6 |
|---------|---------|---------|---------|---------|---------|

|                    |               |         |  |  |  |
|--------------------|---------------|---------|--|--|--|
| operating<br>mode  | DMX Ctrl      |         |  |  |  |
|                    | Sound Ctrl    |         |  |  |  |
|                    | Scene Mode 01 | 1~10    |  |  |  |
|                    |               | Auto    |  |  |  |
|                    | M/S Choose    | Master  |  |  |  |
|                    |               | Slave   |  |  |  |
|                    |               | Auto    |  |  |  |
|                    | Lamp switch   | Off     |  |  |  |
|                    |               | On      |  |  |  |
| DISPLAY<br>SETTING | Language      | English |  |  |  |
|                    |               | Chinese |  |  |  |
|                    | Screen saver  | OFF     |  |  |  |
|                    |               | Mode1   |  |  |  |
|                    |               | Mode2   |  |  |  |
|                    |               | Mode3   |  |  |  |
|                    | Screen Rot    | OFF     |  |  |  |
|                    |               | ON      |  |  |  |
|                    | DMX Indicate  | Mode1   |  |  |  |
|                    |               | Mode2   |  |  |  |
|                    |               | Mode3   |  |  |  |
|                    | Screen Lihgt  | 1-10    |  |  |  |
| SCENE              | Scene Select  | 1-10    |  |  |  |

|                     |                 |             |  |  |  |
|---------------------|-----------------|-------------|--|--|--|
| MODE                | Scene Time      | 0           |  |  |  |
|                     |                 | 1-255       |  |  |  |
|                     | 1. PAN          | 0-255       |  |  |  |
|                     | .....           | 0-255       |  |  |  |
|                     | .....           | 0-255       |  |  |  |
|                     | N. Function     | 0-255       |  |  |  |
| ADVANCED<br>SETTING | Pan Invert      | OFF         |  |  |  |
|                     |                 | ON          |  |  |  |
|                     | Tilt Invert     | OFF         |  |  |  |
|                     |                 | ON          |  |  |  |
|                     | P/T Rectify     | OFF         |  |  |  |
|                     |                 | ON          |  |  |  |
|                     | Pan Offset      | 4-150       |  |  |  |
|                     | Tilt Offset     | 4-48        |  |  |  |
|                     | Data hold       | OFF         |  |  |  |
|                     |                 | ON          |  |  |  |
|                     | Lamp mode       | Power on    |  |  |  |
|                     |                 | After reset |  |  |  |
|                     |                 | Manual      |  |  |  |
|                     | Reset           |             |  |  |  |
|                     | Factory Setting |             |  |  |  |
| STATUS              | Stepper info    | Hall        |  |  |  |

|             |                |                     |  |  |  |
|-------------|----------------|---------------------|--|--|--|
| INFORMATION |                | Status              |  |  |  |
|             |                | PAN                 |  |  |  |
|             |                | TILT                |  |  |  |
|             |                | PAN OP              |  |  |  |
|             | Error Logging  | Error Logging       |  |  |  |
|             |                | 12: :03             |  |  |  |
|             |                | Hall error          |  |  |  |
|             |                | Hall short          |  |  |  |
|             |                | Opti error          |  |  |  |
|             |                | Lose stop           |  |  |  |
|             |                | Hit                 |  |  |  |
|             |                | Lamp error          |  |  |  |
|             |                | NTC error           |  |  |  |
|             |                | Fan error           |  |  |  |
|             | Fixture status | Communication prec  |  |  |  |
|             |                | Error cnt           |  |  |  |
|             |                | Light Temperature   |  |  |  |
|             |                | Panel Temperatrue   |  |  |  |
|             |                | Sensor1 Temperatrue |  |  |  |
|             | Version        | Device              |  |  |  |
|             |                | Model               |  |  |  |
|             |                | Panel               |  |  |  |

|  |            |            |  |  |  |
|--|------------|------------|--|--|--|
|  |            | Main Board |  |  |  |
|  | Light time |            |  |  |  |
|  | Total time |            |  |  |  |

## CHANNEL LIST

### 18CH

| 18CH | FUNCTION      | VALUE | DESCRIPTION     |
|------|---------------|-------|-----------------|
| 1    | <b>Pan</b>    | 0-255 | 0-540(degree)   |
| 2    | <b>Tilt</b>   | 0-255 | 0-540(degree)   |
| 3    | <b>PT Spd</b> | 0-255 | Fast to slow    |
| 4    | <b>Colour</b> | 0-4   | White           |
|      |               | 5-8   | White+colour1   |
|      |               | 9-12  | Colour1         |
|      |               | 13-17 | Colour1+Colour2 |
|      |               | 18-21 | Colour2         |
|      |               | 22-25 | Colour2+Colour3 |
|      |               | 26-29 | Colour3         |
|      |               | 30-34 | Colour3+Colour4 |
|      |               | 35-38 | Colour4         |
|      |               | 39-42 | Colour4+Colour5 |
|      |               | 43-48 | Colour5         |
|      |               | 49-51 | Colour5+Colour6 |

|   |             |         |                               |
|---|-------------|---------|-------------------------------|
|   |             | 52–55   | Colour6                       |
|   |             | 56–59   | Colour6+Colour7               |
|   |             | 60–63   | Colour7                       |
|   |             | 64–68   | Colour7+Colour8               |
|   |             | 69–72   | Colour8                       |
|   |             | 73–76   | Colour8+Colour9               |
|   |             | 77–81   | Colour9                       |
|   |             | 82–85   | Colour9+Colour10              |
|   |             | 86–89   | Colour10                      |
|   |             | 90–93   | Colour10+Colour11             |
|   |             | 94–98   | Colour11                      |
|   |             | 99–102  | Colour11+Colour12             |
|   |             | 103–192 | Rotate forward (fast to slow) |
|   |             | 193–255 | Rotate reverse (slow to fast) |
| 5 | <b>CTO</b>  | 0–255   |                               |
| 6 | <b>Gobo</b> | 0–4     | White                         |
|   |             | 5–9     | Gobo1                         |
|   |             | 10–14   | Gobo2                         |
|   |             | 15–19   | Gobo3                         |
|   |             | 20–24   | Gobo4                         |
|   |             | 25–29   | Gobo5                         |
|   |             | 30–34   | Gobo6                         |

|   |                 |         |                               |
|---|-----------------|---------|-------------------------------|
|   |                 | 35–39   | Gobo7                         |
|   |                 | 40–44   | Gobo8                         |
|   |                 | 45–49   | Gobo9                         |
|   |                 | 50–69   | Gobo11                        |
|   |                 | 70–74   | Shake slow to fast Gobo1      |
|   |                 | 75–79   | Shake slow to fast Gobo2      |
|   |                 | 80–84   | Shake slow to fast Gobo3      |
|   |                 | 85–89   | Shake slow to fast Gobo4      |
|   |                 | 90–94   | Shake slow to fast Gobo5      |
|   |                 | 95–99   | Shake slow to fast Gobo6      |
|   |                 | 100–104 | Shake slow to fast Gobo7      |
|   |                 | 105–109 | Shake slow to fast Gobo8      |
|   |                 | 110–114 | Shake slow to fast Gobo9      |
|   |                 | 115–129 | Shake slow to fast white      |
|   |                 | 130–191 | Rotate reverse (fast to slow) |
|   |                 | 192–193 | Stop                          |
|   |                 | 194–255 | Rotate forward (slow to fast) |
| 7 | <b>Flame</b>    | 0–255   |                               |
| 8 | <b>Rot Gobo</b> | 0–9     | White                         |
|   |                 | 10–19   | Gobo1                         |
|   |                 | 20–29   | Gobo2                         |
|   |                 | 30–39   | Gobo3                         |

|    |                 |         |                               |
|----|-----------------|---------|-------------------------------|
|    |                 | 40–49   | Gobo4                         |
|    |                 | 50–59   | Gobo5                         |
|    |                 | 60–69   | Gobo6                         |
|    |                 | 70–79   | Gobo7                         |
|    |                 | 80–89   | Gobo8                         |
|    |                 | 90–94   | Shake slow to fast Gobo1      |
|    |                 | 95–99   | Shake slow to fast Gobo2      |
|    |                 | 100–104 | Shake slow to fast Gobo3      |
|    |                 | 105–109 | Shake slow to fast Gobo4      |
|    |                 | 110–114 | Shake slow to fast Gobo5      |
|    |                 | 115–119 | Shake slow to fast Gobo6      |
|    |                 | 120–124 | Shake slow to fast Gobo7      |
|    |                 | 125–129 | Shake slow to fast Gobo8      |
|    |                 | 130–199 | Rotate forward (fast to slow) |
|    |                 | 200–255 | Rotate reverse (slow to fast) |
| 9  | <b>Gobo.Rot</b> | 0–127   | 0–360(degree)                 |
|    |                 | 128–190 | Rotate reverse (fast to slow) |
|    |                 | 191–192 | Stop                          |
|    |                 | 193–255 | Rotate forward (slow to fast) |
| 10 | <b>Zoom</b>     | 0–255   | Large to small                |
| 11 | <b>[ CH14 ]</b> | Focus   | 0–255                         |
| 12 | <b>Prism1</b>   | 0–63    | None                          |

|    |                 |         |                               |
|----|-----------------|---------|-------------------------------|
|    |                 | 64–127  | Inert prism1                  |
|    |                 | 128–191 | Insert prism2                 |
|    |                 | 192–255 | Prism1+prism2                 |
| 13 | <b>Prism1.R</b> | 0–127   | 0–360(degree)                 |
|    |                 | 128–187 | Rotate forward (fast to slow) |
|    |                 | 188–195 | Stop                          |
|    |                 | 196–255 | Rotate reverse (slow to fast) |
| 14 | <b>Prism2.R</b> | 0–127   | 0–360(degree)                 |
|    |                 | 128–187 | Rotate forward (fast to slow) |
|    |                 | 188–195 | Stop                          |
|    |                 | 196–255 | Rotate reverse (slow to fast) |
| 15 | <b>Strobe</b>   | 0–3     | Dark                          |
|    |                 | 4–103   | Pluse strobe slow to fast     |
|    |                 | 104–107 | Open                          |
|    |                 | 108–207 | Fade strobe slow to fast      |
|    |                 | 208–212 | Open                          |
|    |                 | 213–251 | Rand strobe slow to fast      |
|    |                 | 252–255 | Open                          |
| 16 | <b>Dimmer</b>   | 0–255   | 0–100% dimmer                 |
| 17 | <b>Frost</b>    | 0–127   | None                          |
|    |                 | 128–255 | Insert frost                  |
| 18 | <b>Reset</b>    | 0–99    | None                          |

|  |  |         |                                  |
|--|--|---------|----------------------------------|
|  |  | 100–105 | Turn off lamp over 3 second      |
|  |  | 106–199 | None                             |
|  |  | 200–205 | Turn on over 3 second            |
|  |  | 206–209 | None                             |
|  |  | 210–215 | Reset XY motor over 3 second     |
|  |  | 216–219 | None                             |
|  |  | 220–235 | Reset Effect motor over 3 second |
|  |  | 236–239 | None                             |
|  |  | 240–255 | Reset fxiture over 3 second      |

## 22CH

| 22CH | FUNCTION         | VALUE | DESCRIPTION     |
|------|------------------|-------|-----------------|
| 1    | <b>Pan</b>       | 0–255 | 0–540(degree)   |
| 2    | <b>Pan Fine</b>  | 0–255 | 0–2(degree)     |
| 3    | <b>Tilt</b>      | 0–255 | 0–540(degree)   |
| 4    | <b>Tilt Fine</b> | 0–255 | 0–1(degree)     |
| 5    | <b>PT Spd</b>    | 0–255 | Fast to slow    |
| 6    | <b>Colour</b>    | 0–4   | White           |
|      |                  | 5–8   | White+colour1   |
|      |                  | 9–12  | Colour1         |
|      |                  | 13–17 | Colour1+Colour2 |
|      |                  | 18–21 | Colour2         |

|   |            |         |                               |
|---|------------|---------|-------------------------------|
|   |            | 22–25   | Colour2+Colour3               |
|   |            | 26–29   | Colour3                       |
|   |            | 30–34   | Colour3+Colour4               |
|   |            | 35–38   | Colour4                       |
|   |            | 39–42   | Colour4+Colour5               |
|   |            | 43–48   | Colour5                       |
|   |            | 49–51   | Colour5+Colour6               |
|   |            | 52–55   | Colour6                       |
|   |            | 56–59   | Colour6+Colour7               |
|   |            | 60–63   | Colour7                       |
|   |            | 64–68   | Colour7+Colour8               |
|   |            | 69–72   | Colour8                       |
|   |            | 73–76   | Colour8+Colour9               |
|   |            | 77–81   | Colour9                       |
|   |            | 82–85   | Colour9+Colour10              |
|   |            | 86–89   | Colour10                      |
|   |            | 90–93   | Colour10+Colour11             |
|   |            | 94–98   | Colour11                      |
|   |            | 99–102  | Colour11+Colour12             |
|   |            | 103–192 | Rotate forward (fast to slow) |
|   |            | 193–255 | Rotate reverse (slow to fast) |
| 7 | <b>CTO</b> | 0–255   |                               |

|   |             |         |                               |
|---|-------------|---------|-------------------------------|
| 8 | <b>Gobo</b> | 0–4     | White                         |
|   |             | 5–9     | Gobo1                         |
|   |             | 10–14   | Gobo2                         |
|   |             | 15–19   | Gobo3                         |
|   |             | 20–24   | Gobo4                         |
|   |             | 25–29   | Gobo5                         |
|   |             | 30–34   | Gobo6                         |
|   |             | 35–39   | Gobo7                         |
|   |             | 40–44   | Gobo8                         |
|   |             | 45–49   | Gobo9                         |
|   |             | 50–69   | Gobo11                        |
|   |             | 70–74   | Shake slow to fast Gobo1      |
|   |             | 75–79   | Shake slow to fast Gobo2      |
|   |             | 80–84   | Shake slow to fast Gobo3      |
|   |             | 85–89   | Shake slow to fast Gobo4      |
|   |             | 90–94   | Shake slow to fast Gobo5      |
|   |             | 95–99   | Shake slow to fast Gobo6      |
|   |             | 100–104 | Shake slow to fast Gobo7      |
|   |             | 105–109 | Shake slow to fast Gobo8      |
|   |             | 110–114 | Shake slow to fast Gobo9      |
|   |             | 115–129 | Shake slow to fast white      |
|   |             | 130–191 | Rotate reverse (fast to slow) |

|    |                 |         |                               |
|----|-----------------|---------|-------------------------------|
|    |                 | 192–193 | Stop                          |
|    |                 | 194–255 | Rotate forward (slow to fast) |
| 9  | <b>Flame</b>    | 0–255   |                               |
| 10 | <b>Rot Gobo</b> | 0–9     | White                         |
|    |                 | 10–19   | Gobo1                         |
|    |                 | 20–29   | Gobo2                         |
|    |                 | 30–39   | Gobo3                         |
|    |                 | 40–49   | Gobo4                         |
|    |                 | 50–59   | Gobo5                         |
|    |                 | 60–69   | Gobo6                         |
|    |                 | 70–79   | Gobo7                         |
|    |                 | 80–89   | Gobo8                         |
|    |                 | 90–94   | Shake slow to fast Gobo1      |
|    |                 | 95–99   | Shake slow to fast Gobo2      |
|    |                 | 100–104 | Shake slow to fast Gobo3      |
|    |                 | 105–109 | Shake slow to fast Gobo4      |
|    |                 | 110–114 | Shake slow to fast Gobo5      |
|    |                 | 115–119 | Shake slow to fast Gobo6      |
|    |                 | 120–124 | Shake slow to fast Gobo7      |
|    |                 | 125–129 | Shake slow to fast Gobo8      |
|    |                 | 130–199 | Rotate forward (fast to slow) |
|    |                 | 200–255 | Rotate reverse (slow to fast) |

|    |                 |         |                               |
|----|-----------------|---------|-------------------------------|
| 11 | <b>Gobo.Rot</b> | 0-127   | 0-360(degree)                 |
|    |                 | 128-190 | Rotate reverse (fast to slow) |
|    |                 | 191-192 | Stop                          |
|    |                 | 193-255 | Rotate forward (slow to fast) |
| 12 | <b>Zoom</b>     | 0-255   | Large to small                |
| 13 | <b>[ CH14 ]</b> | Focus   | 0-255                         |
| 14 | <b>Prism1</b>   | 0-63    | None                          |
|    |                 | 64-127  | Inert prism1                  |
|    |                 | 128-191 | Insert prism2                 |
|    |                 | 192-255 | Prism1+prism2                 |
| 15 | <b>Prism1.R</b> | 0-127   | 0-360(degree)                 |
|    |                 | 128-187 | Rotate forward (fast to slow) |
|    |                 | 188-195 | Stop                          |
|    |                 | 196-255 | Rotate reverse (slow to fast) |
| 16 | <b>Prism2.R</b> | 0-127   | 0-360(degree)                 |
|    |                 | 128-187 | Rotate forward (fast to slow) |
|    |                 | 188-195 | Stop                          |
|    |                 | 196-255 | Rotate reverse (slow to fast) |
| 17 | <b>Strobe</b>   | 0-3     | Dark                          |
|    |                 | 4-103   | Pluse strobe slow to fast     |
|    |                 | 104-107 | Open                          |
|    |                 | 108-207 | Fade strobe slow to fast      |

|    |               |         |                                  |
|----|---------------|---------|----------------------------------|
|    |               | 208–212 | Open                             |
|    |               | 213–251 | Rand strobe slow to fast         |
|    |               | 252–255 | Open                             |
| 18 | <b>Dimmer</b> | 0–255   | 0–100% dimmer                    |
| 19 | <b>Frost</b>  | 0–127   | None                             |
|    |               | 128–255 | Insert frost                     |
| 20 | <b>Reset</b>  | 0–99    | None                             |
|    |               | 100–105 | Turn off lamp over 3 second      |
|    |               | 106–199 | None                             |
|    |               | 200–205 | Turn on over 3 second            |
|    |               | 206–209 | None                             |
|    |               | 210–215 | Reset XY motor over 3 second     |
|    |               | 216–219 | None                             |
|    |               | 220–235 | Reset Effect motor over 3 second |
|    |               | 236–239 | None                             |
|    |               | 240–255 | Reset fxiture over 3 second      |

## **REMARK**

The product has perfect performance and integrity packing. All users should be strictly comply with the warning

and operating instructions as stated. Or we aren't in charge of any result by misusing.

Any damage resulting by misuse is not within the Company's warranty.

Any fault or problem caused by neglecting the manual is also not in the charge of dealers.

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

All information is subject to change without prior notice.

**Thank you again for your patronage!**  
**We will be offering sincere service as always,**  
**Wish you have a good lighting journey!**