

# LB40 SKYTOUCH 40



CE V ⏚ IP20 t<sub>a</sub> 40°C t<sub>l</sub> 100°C

## User Manual

KEEP THIS MANUAL FOR FUTURE NEEDS



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# 1 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.



## 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 temperature.

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

The electric connection must be carried out by a qualified person.

The device shall only be used with rated voltage and frequency.

Make sure that the available voltage is not higher than stated at the end of this manual.

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.

Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.

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.

# 8 MAINTENANCE AND CLEANING

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, color lenses, fixations and installation 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 to 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 months, 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.

There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions".

Should you need any spare parts, please order genuine parts from your local dealer.

## 2 UNPACKING

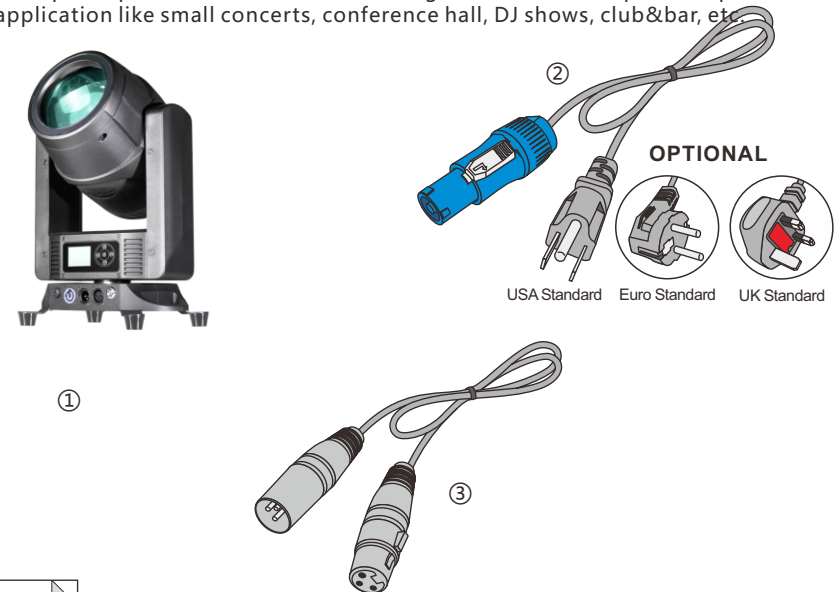
White Laser, 0.7° Angle, Front Neon Ring, 2 Prism Wheels, Continuous PAN/TILT

The SKYTOUCH 40 is an ultra compact and light weight stylish moving head beam light with a white LASER source in a reliable, sage and fully sealed module, integrated with a set of unique high resolution optical system.

The fixture features 0.7° beam angle which helps to provide ultra long throw solid beam effect that it is close to parallel beam. The SKYTOUCH 40 is designed with a range of effects: 19 static gobos, 17 dichroic colors, 6-Color Wheel, 2 prism wheels, frost, focus, etc. It provides 360° continuous fast and smooth PAN/TILT movement with variable speed which delivers even more vivid visual effect to the show. The fixture supports DMX, RDM (Remote Device Management).

The fixture's exterior housing is beautifully balanced basing on a modern design philosophy with supremely harmonious interior structure for remarkable control. The sculpted body of the SKYTOUCH 40 achieves more than just a striking look. The 2\*1/4 turn fastening omega clamps, available for vertical and horizontal plug-in, make installations fast and easy.

It's fast and quiet operation LASER source moving head beam. It's a perfect option for indoor application like small concerts, conference hall, DJ shows, club&bar, etc.



|                |     |
|----------------|-----|
| ① SKYTOUCH 40  | 1PC |
| ② Power Cable  | 1PC |
| ③ Signal Cable | 1PC |
| ④ User Manual  | 1PC |

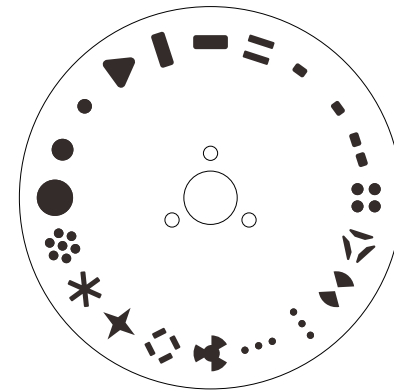
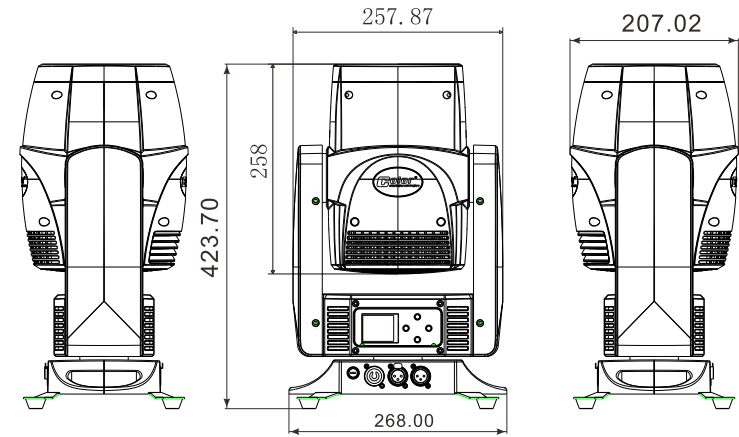
### 3 FEATURES & SPECIFICATIONS

1\*White Laser  
 30\*0.2W 3-IN-1 RGB LEDs  
 Color Temperature: 8000K  
 CRI: ≥70  
 Flicker free operation for broadcast TV and FILM  
 Life Span: 20000H  
 A set of high resolution and precise optics  
 0.7°Beam angle  
 Smooth and precise linear focus  
 PAN: 2 modes  
 1. 360°Continuous movement  
 2. 540°(8/16 bit)  
 TILT: 2 modes  
 1. 360°Continuous movement  
 2. 270°(8/16 bit)  
 Fast, quiet, smooth and precise 2-Phase motors  
 Smooth, fast and precise resolution for PAN/TILT movement with low noise operation  
 Scan position memory, auto reposition after unexpected movement  
 PAN/TILT reversible  
 1 Color wheel with 17 dichroic colors plus open  
 Variable direction rainbow effect with speed adjustable  
 6-Color wheel with variable direction and speed control  
 1 Neon ring effect with different built-in macro effects (variable speed control)  
 1 Static gobo wheel with 19 gobos plus open  
 2 Prism wheel design  
 Prism 1: 8-Facet circular prism with variable speed and direction  
 Prism 2: 3 different prisms, 6-Facet linear prism/16-facet circular prism/8+16-facet circular prism with variable speed and direction  
 Prism indexing  
 Prism overlay (prism morphing)  
 0-25Hz shutter/strobe effect with variable speed  
 Preset variable/random strobe and dimming pulse effect  
 Even and soft coverage  
 0-100% Smooth linear dimming  
 25/28 DMX channels USITT DMX-512  
 DMX512, master-slave, or auto operation  
 DMX recorder and edit function integrated  
 RDM available (Remote Device Management)  
 Art-NET (Optional)  
 Wireless receiver system built-in (Optional)  
 Shielded input signal protection for stable signal without interference  
 RJ45 etherCON IN/OUT (Optional with Art-Net)  
 3-Pin and 5-pin XLR DMX connectors IN/OUT  
 Electronic supply with active PFC  
 AC100-240V 50/60Hz  
 PowerCON IN/ OUT with fuse  
 180W Power consumption  
 -25°C to 45°C ambient temperature  
 IP20 protection rating

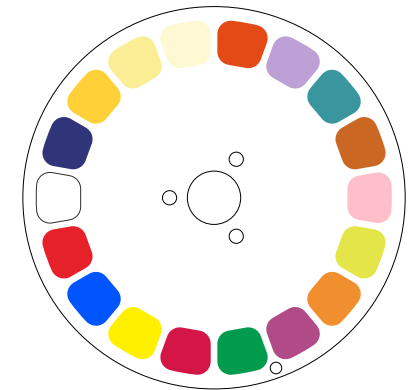
| 28CH | Function            | DmxValue  | Description   |
|------|---------------------|-----------|---|
| 1    | Pan                 | 0 - 255   | Horizontal rotation   |
| 2    | PanFine             | 0 - 255   | Horizontal fine-tuning  |
| 3    | Tilt                | 0 - 255   | Vertical rotation   |
| 4    | TiltFine            | 0 - 255   | Vertical fine-tuning  |
| 5    | PTSpeed             | 0 - 255   | Motor speed   |
| 6    | Pan Rotate          | 0 - 255   | Horizontal infinite rotation  |
| 7    | TiltRotate          | 0 - 255   | Vertical infinite rotation  |
| 8    | Dim                 | 0 - 255   | Dimming   |
| 9    | DimFine             | 0 - 255   | Dimming and fine-tuning   |
| 10   | Strobe              |           | Strobe  |
|      |                     | 0 - 3     | Shut  |
|      |                     | 4 - 103   | Regular strobe, speed from slow to fast                               |
|      |                     | 104 - 107 | Open  |
|      |                     | 108 - 207 | Pulse strobe, the speed changes from slow to fast                     |
|      |                     | 208 - 212 | Open  |
|      |                     | 213 - 225 | Random slow strobe  |
|      |                     | 226 - 238 | Random medium-speed strobe  |
|      |                     | 239 - 251 | Random fast strobe  |
|      |                     | 252 - 255 | Open  |
| 11   | Color               |           | Color palette   |
|      |                     | 0 - 127   | Manual rotation   |
|      |                     | 128 - 190 | Rotate clockwise, and the speed changes from fast to slow.            |
|      |                     | 191 - 192 | Stop  |
|      |                     | 193 - 255 | It rotates counterclockwise, and the speed changes from slow to fast  |
| 12   | ColorFine           | 0 - 255   | Color disk fine-tuning  |
| 13   | Gobo                |           | Solid map   |
|      |                     | 0 - 127   | Manual rotation   |
|      |                     | 128 - 190 | Rotate clockwise, and the speed changes from fast to slow.            |
|      |                     | 191 - 192 | Stop  |
|      |                     | 193 - 255 | It rotates counterclockwise, and the speed changes from slow to fast. |
| 14   | Prism1              | 0 - 127   | Prism 1   |
|      |                     | 128 - 255 | Shut  |
|      |                     |           | Open  |
| 15   | Prism1Rot           | 0 - 127   | Prism 1 rotation  |
|      |                     | 128 - 190 | Manual rotation   |
|      |                     | 191 - 192 | Rotate clockwise, and the speed changes from fast to slow.            |
|      |                     | 193 - 255 | Stop  |
|      |                     |           | It rotates counterclockwise, and the speed changes from slow to fast. |
| 16   | Prism2              |           | Prism 2   |
|      |                     | 0 - 63    | Shut  |
|      |                     | 64 - 127  | Eight prism   |
|      |                     | 128 - 191 | Sixteen prism   |
|      |                     | 192 - 255 | Rearranger  |
| 17   | Prism2Rot           |           | Prism 2 rotation  |
|      |                     | 0 - 127   | Manual rotation   |
|      |                     | 128 - 190 | Rotate clockwise, and the speed changes from fast to slow.            |
|      |                     | 191 - 192 | Stop  |
|      |                     | 193 - 255 | It rotates counterclockwise, and the speed changes from slow to fast  |
| 18   | Fog                 |           | Colorful atomization  |
|      |                     | 0 - 99    | Shut  |
|      |                     | 100 - 199 | Colorful  |
|      |                     | 200 - 255 | Atomize   |
| 19   | Focus               | 0 - 255   | Focusing  |
| 20   | FocusFine           | 0 - 255   | Focus and fine-tuning   |
| 21   | Reset               |           | Reduce  |
|      |                     | 0 - 25    | No effect   |
|      |                     | 26 - 255  | Resummping execution (stay for 5 seconds)                             |
| 22   | LedStripDim         | 0 - 255   | Light strip dimming   |
| 23   | LedStripStrobe      | 0 - 255   | Light band strobe   |
| 24   | LedStripRed         | 0 - 255   | The light is red.   |
| 25   | LedStripGreen       | 0 - 255   | The light strip is green.   |
| 26   | LedStripBlue        | 0 - 255   | The light is blue.  |
| 27   | LedStripEffect      | 0 - 255   | Light strip effect  |
| 28   | LedStripEffectSpeed | 0 - 255   | Light strip effect speed  |

# 7 DMX CHANNELS

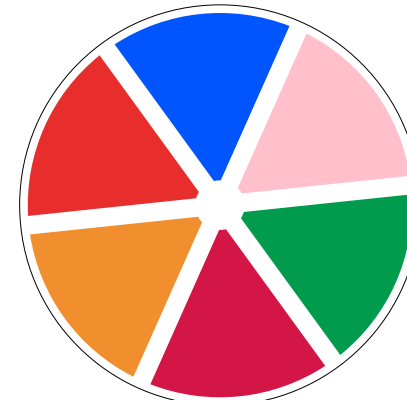
| 25CH      | Function            | DmxValue  | Description   |
|-----------|---------------------|-----------|---|
| 1         | Pan                 | 0 - 255   | Horizontal rotation   |
| 2         | PanFine             | 0 - 255   | Horizontal fine-tuning  |
| 3         | Tilt                | 0 - 255   | Vertical rotation   |
| 4         | TiltFine            | 0 - 255   | Vertical fine-tuning  |
| 5         | PTSpeed             | 0 - 255   | Motor speed   |
| 6         | Pan Rotate          | 0 - 255   | Horizontal infinite rotation  |
| 7         | Tilt Rotate         | 0 - 255   | Vertical infinite rotation  |
| 8         | Dim                 | 0 - 255   | Dimming   |
| 9         | Strobe              |           | Strobe  |
|           |                     | 0 - 3     | Shut  |
|           |                     | 4 - 103   | Regular strobe, speed from slow to fast                               |
|           |                     | 104 - 107 | Open  |
|           |                     | 108 - 207 | Pulse strobe, the speed changes from slow to fast                     |
|           |                     | 208 - 212 | Open  |
|           |                     | 213 - 225 | Random slow strobe  |
|           |                     | 226 - 238 | Random medium-speed strobe  |
|           |                     | 239 - 251 | Random fast strobe  |
| 252 - 255 | Open                |           |   |
| 10        | Color               |           | Color palette   |
|           |                     | 0 - 127   | Manual rotation   |
|           |                     | 128 - 190 | Rotate clockwise, and the speed changes from fast to slow.            |
|           |                     | 191 - 192 | Stop  |
|           |                     | 193 - 255 | It rotates counterclockwise, and the speed changes from slow to fast. |
| 11        | Gobo                |           | Solid map   |
|           |                     | 0 - 127   | Manual rotation   |
|           |                     | 128 - 190 | Rotate clockwise, and the speed changes from fast to slow.            |
|           |                     | 191 - 192 | Stop  |
|           |                     | 193 - 255 | It rotates counterclockwise, and the speed changes from slow to fast. |
| 12        | Prism1              |           | Prism 1   |
|           |                     | 0 - 127   | Shut  |
|           |                     | 128 - 255 | Open  |
| 13        | Prism1Rot           |           | Prism 1 rotation  |
|           |                     | 0 - 127   | Manual rotation   |
|           |                     | 128 - 190 | Rotate clockwise, and the speed changes from fast to slow.            |
|           |                     | 191 - 192 | Stop  |
|           |                     | 193 - 255 | It rotates counterclockwise, and the speed changes from slow to fast. |
| 14        | Prism2              |           | Prism 2   |
|           |                     | 0 - 63    | Shut  |
|           |                     | 64 - 127  | Eight prism   |
|           |                     | 128 - 191 | Sixteen prism   |
|           |                     | 192 - 255 | Rearranger  |
| 15        | Prism2Rot           |           | Prism 2 rotation  |
|           |                     | 0 - 127   | Manual rotation   |
|           |                     | 128 - 190 | Rotate clockwise, and the speed changes from fast to slow.            |
|           |                     | 191 - 192 | Stop  |
|           |                     | 193 - 255 | It rotates counterclockwise, and the speed changes from slow to fast. |
| 16        | Fog                 |           | Colorful atomization  |
|           |                     | 0 - 99    | Shut  |
|           |                     | 100 - 199 | Colorful  |
| 17        | Focus               | 200 - 255 | Atomize   |
|           |                     | 0 - 255   | Focusing  |
| 18        | Reset               |           | Reduce  |
|           |                     | 0 - 25    | No effect   |
|           |                     | 26 - 255  | Resumping execution (stay for 5 seconds)                              |
| 19        | LedStripDim         | 0 - 255   | Light strip dimming   |
| 20        | LedStripStrobe      | 0 - 255   | Light band strobe   |
| 21        | LedStripRed         | 0 - 255   | The light is red.   |
| 22        | LedStripGreen       | 0 - 255   | The light strip is green.   |
| 23        | LedStripBlue        | 0 - 255   | The light is blue.  |
| 24        | LedStripEffect      | 0 - 255   | Light strip effect  |
| 25        | LedStripEffectSpeed | 0 - 255   | Light strip effect speed  |



Static Gobo



Colors



Color Wheel

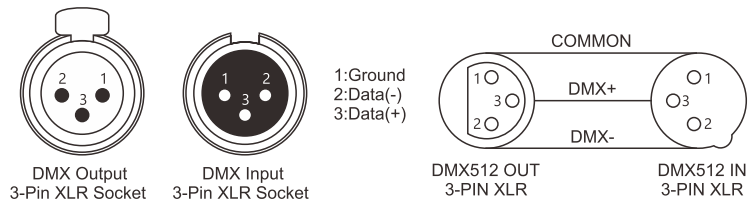
Color

## 5 DMX-512 CONTROL CONNECTIONS

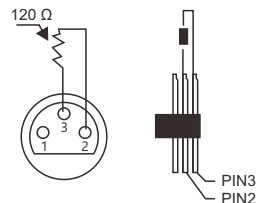
Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the architectural.

Architectural together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.

DMX-512 connection with DMX terminator.



For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.



## 6 MENU OPERATIONS

| Main Menu     | Second          | Third            | Fourth   |
|---------------|-----------------|------------------|----------|
| Dmx Address   | 000 - 512       |                  |          |
| Fixture       | DmxMode         | STD/ EXT         |          |
|               | Run Mode        | DMX/ Host/ Sound |          |
|               | Pan Invert      | Close/ Open      |          |
|               | TiltInvert      | Close/ Open      |          |
|               | No DmxSignal    | Clear/ Hold      |          |
|               | SoundControl    | 1 -- 99          |          |
| Manual        | Pan             | 000 - 255        |          |
|               | Pan Fine        | 000 - 255        |          |
|               | Tilt            | 000 - 255        |          |
|               | TiltFine        | 000 - 255        |          |
| ...           | ...             |                  |          |
| Information   | Time            | CurrentTime      | xxxH     |
|               |                 | TotalTime        | xxxH     |
|               | Sensor          | AllSensorare ok! |          |
|               |                 | Temperature      | HeadTemp |
|               | SoftwareVersion | Panel            | Vx.xx    |
|               |                 | Motor            | Vx.xx    |
| Factory       | Password        | 000 - 255        |          |
|               | Pan             | 000 - 255        |          |
|               | Tilt            | 000 - 255        |          |
|               | Color           | 000 - 255        |          |
|               | Gobo            | 000 - 255        |          |
|               | Prism1          | 000 - 255        |          |
|               | Prism1Rot       | 000 - 255        |          |
|               | Prism2          | 000 - 255        |          |
|               | Prism2Rot       | 000 - 255        |          |
|               | Fog             | 000 - 255        |          |
| Focus         | 000 - 255       |                  |          |
| Fixture Reset | MotorReset      | Cancel/ Run      |          |
|               | Factory         | Cancel/ Run      |          |
| Display       | Language        | CH/ EN           |          |
|               | DisplayFlip     | Normal/ Reverse  |          |
|               | DisplayMode     | 60s/ Show        |          |