

INVO LIGHT

USER MANUAL

SBL1000HP

Introduction

Thank you for purchasing the SBL1000HP High Power parbar lighting system, we are sure you will have many years of use from this equipment if you follow this instruction.

Important: damages caused by the disregard of this user manual are not subject to warranty.

DMX-512 connection

Only use a stereo shielded cable, 3-pin XLR-plugs and connectors in order to connect the controller with the device or one device with another.

Master/Slave operation without DMX controller

The master/slave operation enables that several devices can be synchronized and controlled by one master device.

On the rear panel of the SBL1000HP, you can find an XLR-jack and an XLR-plug, which can be used for connecting several devices.

Choose the device which is to control the device (master). Connect the OUT jack with the IN-plug of the next device.

Set the Master device to SND or AUT mode

Set each slave unit to address d1 see settings

Mains connection

The device must only be connected with an electric installation carried out in compliance with the IEC standards.

The electric installation must be equipped with a Residual Current Device (RCD) with a maximum fault current of 30mA. Lighting effects must not be connected to dimming-packs.

Operation

After you have connected the unit to the mains, the SBL1000HP starts running and the display lights up. The device has three operating modes. It can be operated in sound controlled, automatic or in DMX-controlled mode.

You can choose the desired mode via the buttons MENU, UP and DOWN:

When the display shows A*** you can choose the desired DMX address via the UP or DOWN buttons.

When the display shows *512 the device is in DMX mode. To switch to sound controlled mode, press the UP button.

When the display shows *SND the device is in sound controlled mode. To switch to DMX mode, press the DOWN button.

When the display shows S*** you can choose the desired speed of the internal programs. Default is 51; for increasing speed press the DOWN button, for decreasing speed press the UP button.

DMX controlled operation

You can control the spots individually via your DMX controller.

Using the SBL1000HP with a DMX controller

Each device uses fifteen DMX channels. To connect a single unit to a DMX controller you will need to decide what address you want the DMX to start at. Usually we suggest you set the address at channel 1 to begin with.

The address settings on the device are determined in the A section of the menu.

1. Power up the device and press the left hand menu button until 'A' followed by a digit is displayed e.g. A8.

2. Using the up and down buttons you can change the display number, press the Down until A1 is displayed.

3. Now press the left hand menu button once more then press the right hand button once, this will now display.

512. Wait approximately 20 seconds and the display will automatically change to D1 this is now set to DMX Address Channel 1, if a different starting address is required press the left hand menu button until A is displayed and using the up and down buttons, you can set the desired DMX start address. Follow step 3 in this section to complete the set up.

Whatever number is selected in the A menu will be the DMX512 channel.

Setting all linked SBL1000HP to react in the same way via a DMX controller

Set all devices to D1. Follow the instructions above in the 'Setting the second unit' section.

Setting all linked SBL1000HPs to react independently via a DMX controller

This will mean addressing the devices with different addresses. Make sure your DMX controller has enough channels available to do this. Set the first unit to D1. The second units needs to be 15 channels higher than this number, so in this case the start address will be 16. Press the menu button to access the A menu as described above. Next use the up and down buttons until A16 is displayed.

Press the menu button once more then press the right hand down button. 512 will be displayed, wait approximately 20 seconds and the display will automatically change to D16, this is now set to DMX address channel 16. Continue using this formula adding 15 each time for connecting more devices. Always make sure your controller has enough free channels. Never overlap the DMX channels. Full RGB colour mixing is available only when using a DMX controller.

DMX Protocols

Channel 1 – Internal Programs, Auto Mode and Sound Controlled Mode

Value Function

000 – 009 Off

010 – 032 Program 1

033 – 052 Program 2

053 – 073 Program 3

074 – 095 Program 4

096 – 116 Program 5

117 – 137 Program 6

138 – 158 Program 7
159 – 180 Program 8
181 – 201 Program 9
202 – 222 Program 10
223 – 243 Program 11
244 – 252 Auto Mode: Internal Programs
253 – 255 Sound Controlled Mode
Channel 2 – Master Dimmer
Value Function
000 – 009 Off
010 - 255 Dimming from 0 – 100%
Channel 3 – Strobe
Value Function
000 – 009 Off
010 - 255 Flash, with increasing speed
Channel 4 – Spot 1: red
Value Function
000 – 255 Dimming from 0 – 100%
Channel 5 – Spot 1: green
Value Function
000 – 255 Dimming from 0 – 100%
Channel 6 – Spot 1: blue
Value Function
000 – 255 Dimming from 0 – 100%
Channel 7 – Spot 2: red
Value Function

000 – 255 Dimming from 0 – 100%
Channel 8 – Spot 2: green
Value Function
000 – 255 Dimming from 0 – 100%
Channel 9 – Spot 2: blue
Value Function
000 – 255 Dimming from 0 – 100%
Channel 10 – Spot 3: red
Value Function
000 – 255 Dimming from 0 – 100%
Channel 11 – Spot 3: green
Value Function
000 – 255 Dimming from 0 – 100%
Channel 12 – Spot 3: blue
Value Function
000 – 255 Dimming from 0 – 100%
Channel 13 – Spot 4: red
Value Function
000 – 255 Dimming from 0 – 100%
Channel 14 – Spot 4: green
Value Function
000 – 255 Dimming from 0 – 100%
Channel 15 – Spot 4: blue
Value Function
000 – 255 Dimming from 0 – 100%

Operation via the foot switch –

Connect the foot switch with the SBL1000HP via the 5-pin connection cable with plug. The foot switch can be operated in sound controlled (*SND) or (AUTO) mode.

Pedal functions are as follows:

Pedal 3 Blackout press again to return to on position

Pedal 2 Sound On

Pedal 1 Presets: 1 x press = White / 2 x press = Red / 3 x press = Green / 4 x press = Blue

5 x press = yellow / 6 x press = pink / 7 x press = cyan

8 x press = Colour change every second in a continuous loop as described above

9 x press = Colour fade every 3 seconds in a continuous loop as described above

To black out at any point press pedal 4. By pressing pedal 4 once more the unit will return to the previous setting.

When linking two or more devices together using one foot controller Setting up the first unit

1. Power up first unit (this will be known as the Master unit).
2. Press the left hand menu button until either AUTO or SND is displayed
3. When either AUTO or SND is displayed then choose which mode you require by pressing the centre button. AUTO = Automatic mode, SND = Sound-to-Light mode. The master unit is now set up and ready to use.

Setting the second unit

1. Power up the second unit (this will be known as the Slave unit). Usually either AUTO or SND will be displayed.
2. Now press the left hand menu button until the display shows an (A) followed by a number. Using the right hand down button, press until the display shows A1.
3. Now press the menu button once again, the display will show either AUTO or SND depending on the setting.
4. Press the right button and 512 will be displayed. At this point you must wait approx 20 seconds and the display will automatically change to D1. The slave unit is now set.
5. Repeat the above section of the instructions on all other slave units that you require to be linked.
6. All Slave units must be set to D1. There can only be one Master unit.
7. Link the devices together using a 3 pin XLR to XLR DMX cable.
8. Connect the DMX Output socket on the Master unit to the DMX Input on the Slave unit. If you are connecting more devices, connect the DMX Output of the each Slave unit to the DMX Input socket of the next unit.

Specification

Power supply: 230 V AC, 50 Hz ~

Power consumption: 160 W

Number of DMX channels: 15

DMX-512 connection: 3-pin XLR

Sound-control: via built-in microphone

Maximum ambient temperature Ta: 45° C

Maximum housing temperature TB (steady state): 60° C

Min. distance from flammable surfaces: 0.50 m

Min. distance to lighted object: 0.10 m

Number of 3x1W TCL LEDs: 28

Beam angle: 30°

Fuse: F 2 A, 250V

Dimensions (LxWxH): 1200 x 65 x 315 mm

Weight: 15 kg