infinity
INTELLIGENT LIGHT ®

MANUAL

ENGLISH

Infinity iB-16R

V3

Ordercode: 41532

Table of contents

Warning

> ⚠ **For your own safety, please read this user manual carefully before your initial start-up!** ⚠

Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Your shipment includes:

- Infinity iB-16R
- 2 x mounting bracket with quick-locks
- Neutrik PowerCON to Schuko power cable 1,5 m
- User manual
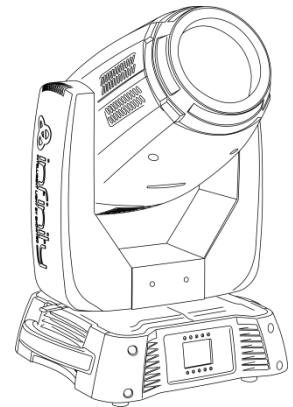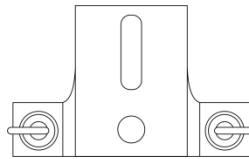
> ⚠ **CAUTION!**
> **Keep this device away from rain and moisture!**
> **Unplug mains lead before opening the housing!** ⚠

Safety Instructions

Every person involved with the installation, operation and maintenance of this device has to:
- be qualified
- follow the instructions of this manual

> ⚠ **CAUTION! Be careful with your operations.**
> **With a dangerous voltage you can suffer**
> **a dangerous electric shock when touching the wires!** ⚠

Before the initial start-up, please make sure that there is no damage caused by transportation.

Should there be any, consult your dealer and do not use the device.

To maintain perfect 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 manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power cord come into contact with other cables! Handle the power cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never lift the fixture holding it by the projector-head, as the mechanics may be damaged. Always hold the fixture by the transport handles.
- Never place any material over the lens.
- Never look directly into the light source.
- Never leave any cables lying around.
- Never loosen the screws of the rotating gobo otherwise you risk opening of the ball bearing.
- Do not insert objects into air vents.
- Do not connect this device to a dimmer pack.
- Do not switch the device on and off in short intervals, as this will reduce the device's life.
- Do not touch the device's housing bare-handed during its operation (housing becomes hot). Allow the fixture to cool for at least 5 minutes before handling.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use the device indoors, avoid contact with water or other liquids.
- Only operate the fixture after having checked if the housing is firmly closed and all screws are tightly fastened.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always keep the case closed while operating.
- Always allow a free air space of at least 50 cm around the unit for ventilation.
- Always disconnect power from the mains, when device is not used or before cleaning! Only handle the power cord holding it by the plug. Never pull out the plug by tugging the power cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power cord is never crimped or damaged. Check the device and the power cord from time to time.
- If the lens is obviously damaged, it has to be replaced.
- If device was dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Infinity device fails to work properly, discontinue the use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Infinity dealer for service.
- For adult use only. Moving head must be installed beyond the reach of children. Never leave the unit running unattended.
- Never attempt to bypass the thermostatic switch or fuses.
- For replacement use fuses of same type and rating only.
- The user is responsible for correct positioning and operating of the iB-16R. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this device.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

CAUTION! Eyedamages!!!
Avoid looking directly into the lightsource!!!
(meant especially for epileptics)!!!

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INTELLIGENT LIGHT

> ⚠ **CAUTION! DANGER!!!**
> Never point the light beam at any humans, animals or objects.
> It will result in severe burns and/or damage of property!!! ⚠

Operating Determinations

- This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.
- The minimum distance between light output and the illuminated surface must be bigger than **23 meters**.
- To eliminate wear and improve lifespan, during periods of non-use, completely disconnect from power via breaker or by unplugging.
- The maximum ambient temperature ta = 40°C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 40°C.
- If this device is operated in any other way than the one described in this manual, the product may suffer damages and the warranty becomes void.
- Any other operation may lead to dangers like short-circuit, burns, electric shock, crash etc.

You endanger your own safety and the safety of others!

Rigging

Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

Do not attempt the installation yourself!
Always have the inspections carried out by an authorized dealer!

Procedure:

- If the Infinity is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the Infinity, with the mounting bracket, to the trussing system.
- The Infinity must never be fixed swinging freely in the room.
- The installation must always be secured with a safety attachment, e.g. an appropriate safety net or safety cable.
- When rigging, derigging or servicing the Infinity, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.

Clamp

Safety cable

Unlocked

Locked
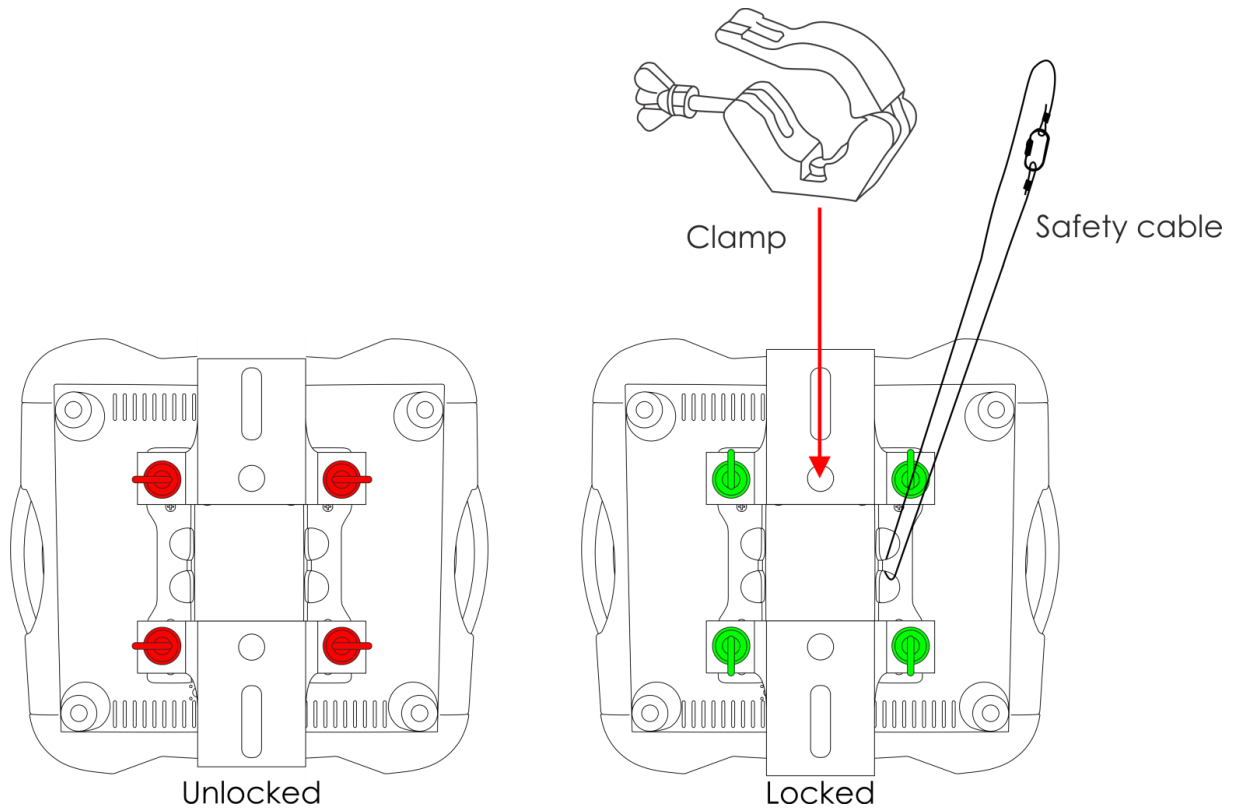
The Infinity can be placed on a flat stage floor or mounted to any kind of truss with a mounting bracket and a clamp.

Improper installation can cause serious injuries and/or damage of property!

Connection with the mains

Connect the device to the mains with the power-plug.
Always check if the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	PHASE
N	BLUE	BLACK	SILVER	NEUTRAL
⏚	YELLOW/GREEN	GREEN	GREEN	PROTECTIVE GROUND

Make sure that the device is always properly connected to the earth!

Improper installation can cause serious injuries and/or damage of property!

![WEEE crossed-out wheeled bin symbol]

⚠ **Return Procedure** ⚠

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail aftersales@highlite.com and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:
01) Your name
02) Your address
03) Your phone number
04) A brief description of the symptoms

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any short-comings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.

Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

![infinity INTELLIGENT LIGHT logo]

Description of the device

Features
The Infinity iB-16R is a moving head effect with high output and great effects.
- Input voltage: 100-240V, 60/50Hz
- Power consumption: 520W
- DMX channels: 26, 31 channels
- Light source: Osram Sirius 330W X8, 7400K
- Lamp socket: E20.6
- LCD display with gravity sensor
- Control modes: Stand-alone, Master/Slave, DMX-512
- Control protocol: DMX-512
- Dimmer: 0-100%
- Strobe: 0-20Hz
- Motorized zoom: 2,5° - 8°
- Prisms: 8-facet prism & 5-facet linear rotating prism
- Beam Angle: 1° - 4,5°
- Static gobo wheel (13 metal gobos + open), rotating gobo wheel (9 glass gobos + open)
- Color wheel (13 colors + white)
- Pan: 540°
- Tilt: 270°
- IP rating: IP20
- Housing: Metal & flame retardant plastic
- Connections: Neutrik PowerCON & 3-pin/5-pin XLR IN/OUT
- Fuse: F10AL/250V
- Dimensions: 430 x 405 x 640 mm (LxWxH)
- Weight: 26 kg

Optional accessories:
70450 – Safety cable Saveking 3mm
70451 – Safety cable Saveking 3mm
D7245 – Flight case for 2 x iB-16R
81017 – Spare lamp Osram Sirius HRI 330W X8
MOD41532 – Wireless DMX upgrade kit

⚠️ **The Wireless DMX upgrade kit should be installed ONLY by a qualified technician.
Do not attempt installation yourself!** ⚠️

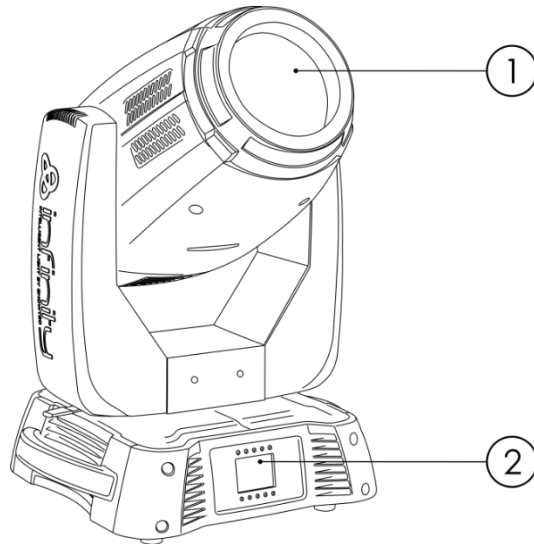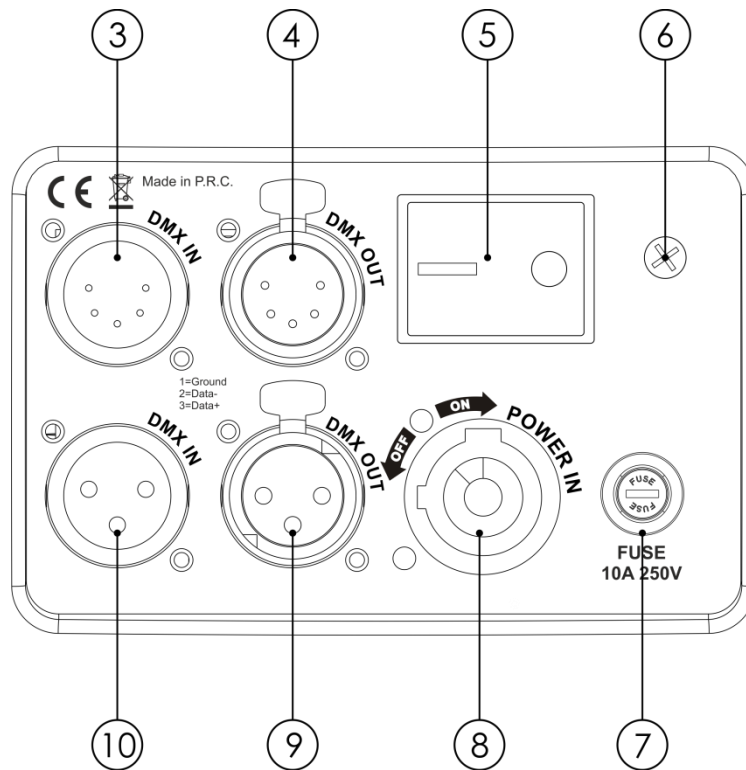## Frontside

01) Lens
02) LCD display + control buttons

Backside

03) 5-pin DMX signal connector IN
04) 5-pin DMX signal connector OUT
05) Power switch ON/OFF
06) Ground/earth connection
07) Fuse F10AL/250V
08) PowerCON power connector 100-240V IN
09) 3-pin DMX signal connector OUT
10) 3-pin DMX signal connector IN

Installation

Remove all packing materials from the Infinity iB-16R. Check if all foam and plastic padding is removed. Connect all cables.

Do not supply power before the whole system is set up and connected properly.
Always disconnect from electric mains power supply before cleaning or servicing.
Damages caused by non-observance are not subject to warranty.

Installing the Lamp

The Infinity iB-16R uses the Osram Sirius HRI 330W X8 (ordercode 81017) bulb as manufactured by all popular manufacturers. Use only the appropriate lamp for your unit.

Note that, product versions that use other lamps, may be offered in the future. Check your product specification label for information.

Always disconnect from electric mains power supply before changing lamps.

The lamp has to be replaced when it is damaged or deformed due to the heat.

Do not install lamps with a higher wattage! Lamps with a higher wattage generate temperatures the device was not designed for.

Damages caused by non-observance are not subject to warranty.

Always read the safety instructions that are included with the lamp.

Oil on hands shortens the lamp life. (If you touch the bulb glass, wipe off the glass with a clean,lint-free towel and rubbing alcohol.).

Always read all the safety warnings at the beginning of this manual, before replacing the lamp !!!

⚠ **Let the lamp cool down for 20 minutes, before replacing the lamp.** ⚠

Procedure:
01) Loosen the 4 screws (A, B, C, D) on top of the housing.
02) Remove the cover. Make sure you have the right side. Your topside should have the cooling fan.
03) Loosen the 2 screws (E, F) on the back of the housing.
04) Gently remove the small metal housing on the backside.
05) Gently pull the 2 black cables from the lamp.
06) You will now have an unobstructed view of the lamp in its socket.
07) Push the lamp straight downwards with some force (red arrow). The topside of the lamp will now slide out of its socket. Then gently tilt the lamp and remove the lamp.
08) When installing a new lamp make sure that the lamp is positioned as pictured.
09) Read lamp instructions. Do not touch the lamp bulb glass (see fig.03). Oil on hands shortens the lamp life. (If you touch the bulb glass, wipe off the glass with a clean, lint-free towel and rubbing alcohol.).
10) Insert the lamp into lamp socket. You can adjust the distance between the lamp and the lens by turning the 2 screws (G, H) above or below the lamp.
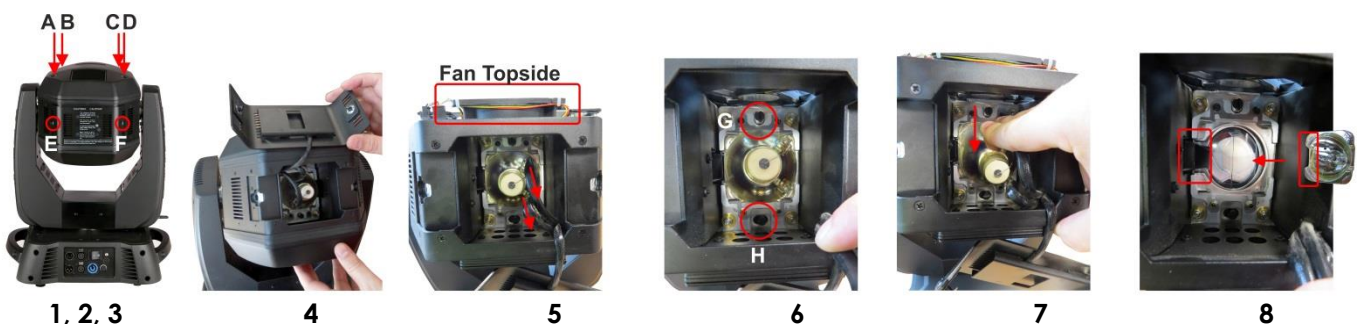11) Put the lamp cover back and fasten the screws snugly.

| 1, 2, 3 | 4 | 5 | 6 | 7 | 8 |

Fig. 03

Lamp Adjustment

You can adjust the lamp's position by turning the 2 screws G, H. The lamp position is set in the factory. As the lamps, which can be used, differ from manufacturer to manufacturer, it can be necessary to readjust the position. The lamp must be readjusted e.g., if the light does not seem to be evenly distributed within the ray of light. Ignite the lamp and focus the ray of light on an even surface (wall). As the optimal distance between the lamp and the lens was already set during the installation. Only the "Hot Spot" (the brightest part of the ray of light) must be centered. If the Hot Spot appears too bright, you can weaken its intensity, by moving the lamp closer to the reflector. Turn in addition all screws, until the light is evenly distributed. If the light at the outside edge of the ray of light appears brighter as in the center, the lamp is too close to the reflector. In this case move the lamp away from the reflector, until the light is evenly distributed and the ray of light appears bright enough.
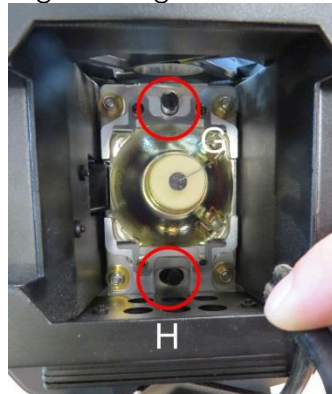

Fig. 04

Lock / Unlock the Moving-head

You can **lock** the moving head by sliding the lock pin to the left (horizontally) for **Pan** or up (vertically) for **Tilt** (**Red arrows**). You can **unlock** the moving head by sliding the lock pin to the right (horizontally) for **Pan** or down (vertically) for **Tilt** (**Green arrows**).

Fig. 05

Set Up and Operation

Follow the directions below, as they pertain to your preferred operation mode.
Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.
Connect the device to the main power supply.

> ⚠ **CAUTION! DANGER!!!**
> **Never point the light beam at any humans, animals or objects.**
> **It will result in severe burns and/or damage of property!!!** ⚠

Control Modes

There are 3 modes:
- Stand-alone
- Master/Slave
- DMX-512 (26CH, 31CH)

One Infinity (Stand-alone)
01) Fasten the effect light to a firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Plug the end of the electric mains power cord into a proper electric power supply socket.
03) When the Infinity is not connected with a DMX cable, it functions as a stand-alone device.
    Please see pages 17-23 for more information about the Stand-alone mode.

Multiple Infinitys (Master/Slave control)
01) Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Use a 3-pin/5-pin XLR cable to connect the Infinity.

The pins:
01) Earth
02) Signal -
03) Signal +

03) Link the units as shown in fig. 06. Connect the first unit's DMX "out" socket with the second unit's "in" socket, using a DMX signal cable. Repeat this process to link the second, third, and fourth units. You can use the same functions on the master device as described on pages 17-23. This means that you can set your desired operation mode on the master device and all slave devices will react the same as the master device.
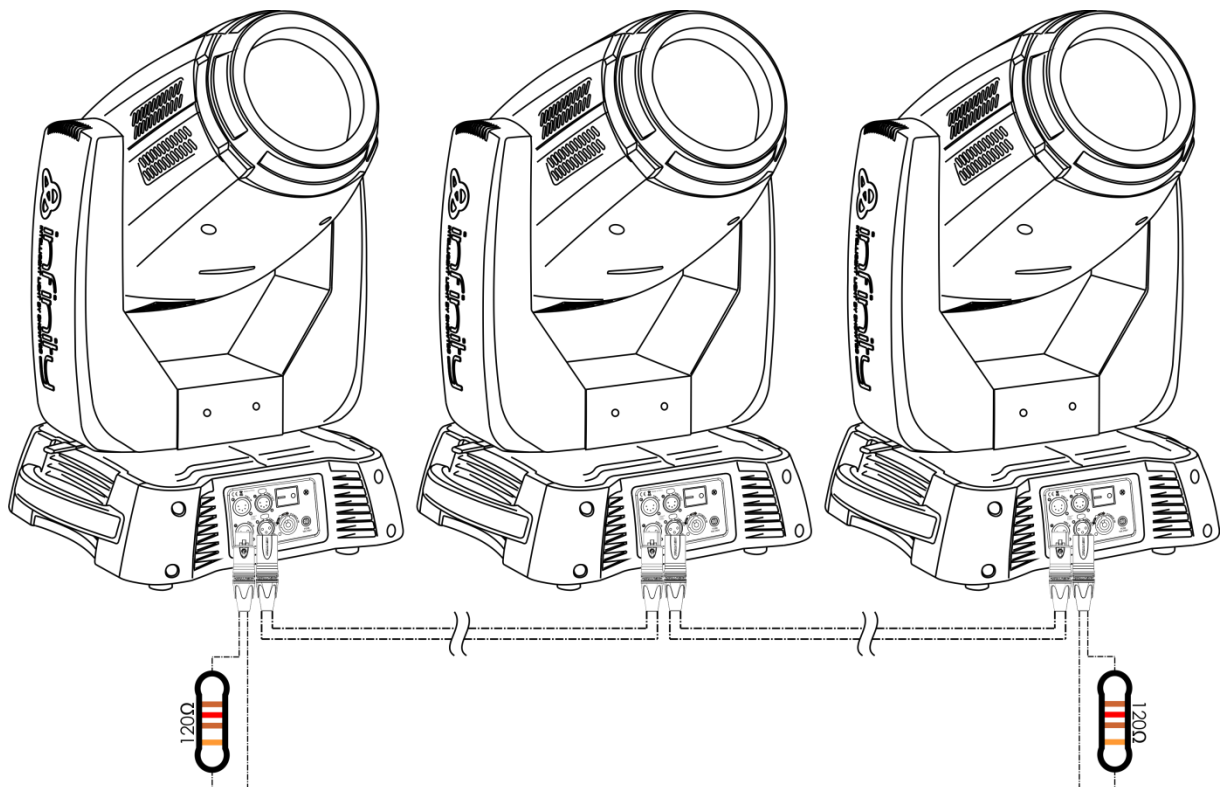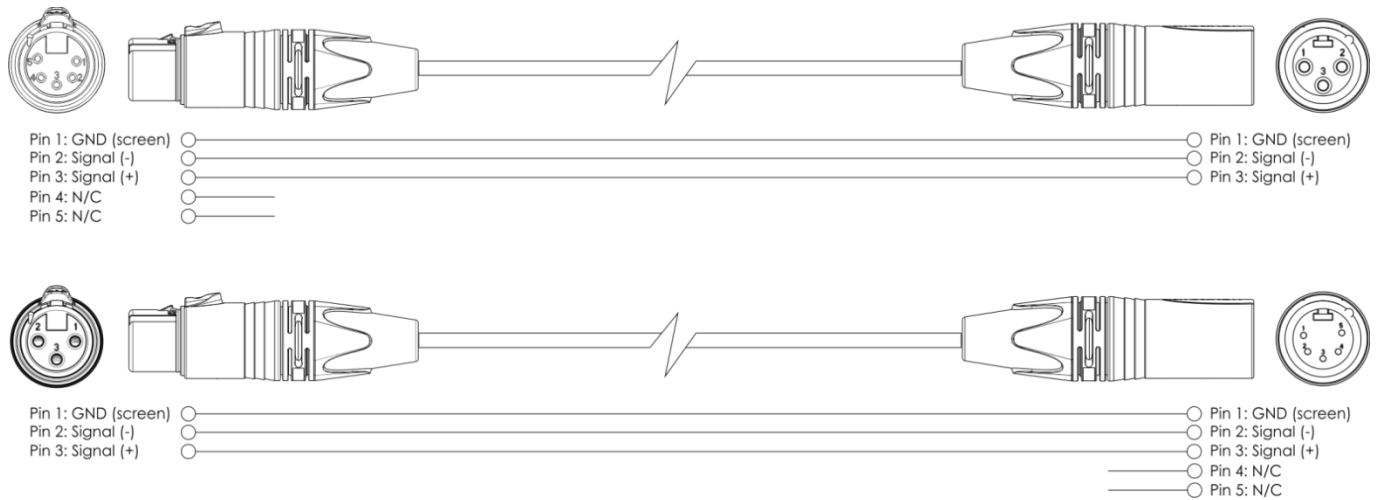
Multiple Infinitys (Master/Slave control)

Fig. 06

## Multiple Infinitys (DMX control)

01) Fasten the effect light to a firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Use a 3-pin/5-pin XLR cable to connect the Infinity and other devices.

04) Link the units as shown in fig. 07. Connect the first unit's DMX "out" socket with the second unit's "in" socket, using a DMX signal cable. Repeat this process to link the second, third, and fourth units.
05) Supply electric power: Plug electric mains power cords into each unit's PowerCON socket, then plug the other end of the mains power cord into proper electric power supply sockets, starting with the first unit. Do not supply power before the whole system is set up and connected properly.

Multiple Infinitys DMX Set Up
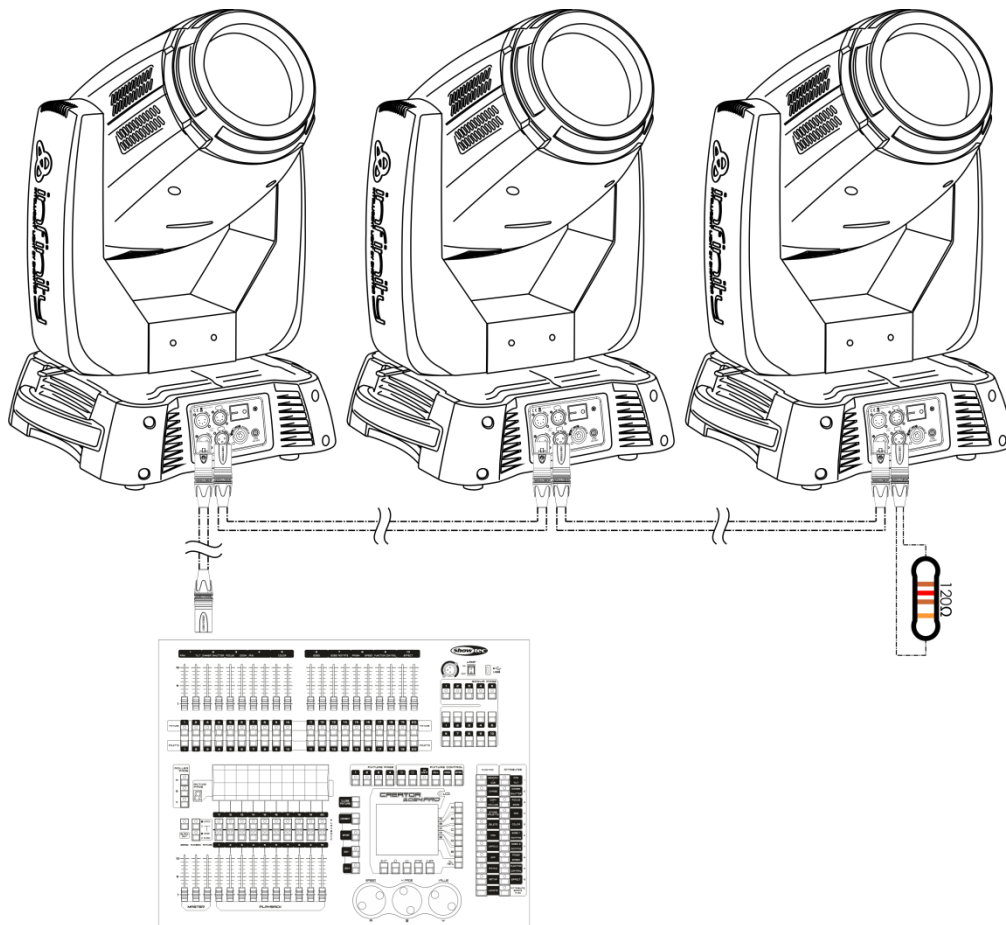
Fig. 07

Note : Link all cables before connecting electric power

Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX-512 controller or to run synchronized shows of two or more fixtures set to a master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Important: Fixtures on a serial data link must be daisy-chained in a single line. To comply with the EIA-485 standard, no more than 30 devices should be connected on one data link. Connecting more than 30 fixtures on one serial data link without the use of a DMX optically isolated splitter may result in deterioration of the digital DMX signal.

Maximum recommended DMX data link distance: 100 meters
Maximum recommended number of fixtures on a DMX data link: 30 fixtures
Maximum recommended number of Infinitys on a power link @110V: 2 fixtures
Maximum recommended number of Infinitys on a power link @240V: 4 fixtures

Data Cabling

To link fixtures together, you must obtain data cables. You can purchase DAP Audio certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable, please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

DAP Audio DMX Data Cables

- DAP Audio Basic microphone cable for allround use. bal. XLR/M 3-pin > XLR/F 3-pin. **Ordercode** FL01150 (1,5 m), FL013 (3 m), FL016 (6 m), FL0110 (10 m), FL0115 (15 m), FL0120 (20 m).
- DAP Audio X-type data cable XLR/M 3-pin > XLR/F 3-pin. **Ordercode** FLX0175 (0,75 m), FLX01150 (1,5 m), FLX013 (3 m), FLX016 (6 m), FLX0110 (10 m).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. **Ordercode** FL71150 (1,5 m), FL713 (3 m), FL716 (6 m), FL7110 (10 m).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. **Ordercode** FL7275 (0,75 m), FL72150 (1,5 m), FL723 (3 m), FL726 (6 m), FL7210 (10 m).
- DAP Audio 110 Ohm cable with digital signal transmission. **Ordercode** FL0975 (0,75 m), FL09150 (1,5 m), FL093 (3 m), FL096 (6 m), FL0910 (10 m), FL0915 (15 m), FL0920 (20 m).
- DAP Audio data cable FL08 DMX/AES-EBU, XLR/M 5-pin > XLR/F 5-pin. **Ordercode** FL08150 (1,5 m), FL083 (3 m), FL086 (6 m), FL0810 (10 m), FL0820 (20 m).
- DAP Audio DMX adapter: 5-pin/3-pin. **Ordercode** FLA29.
- DAP Audio DMX adapter: 3-pin/5-pin. **Ordercode** FLA30.
- DAP Audio DMX Terminator 3-pin. **Ordercode** FLA42.
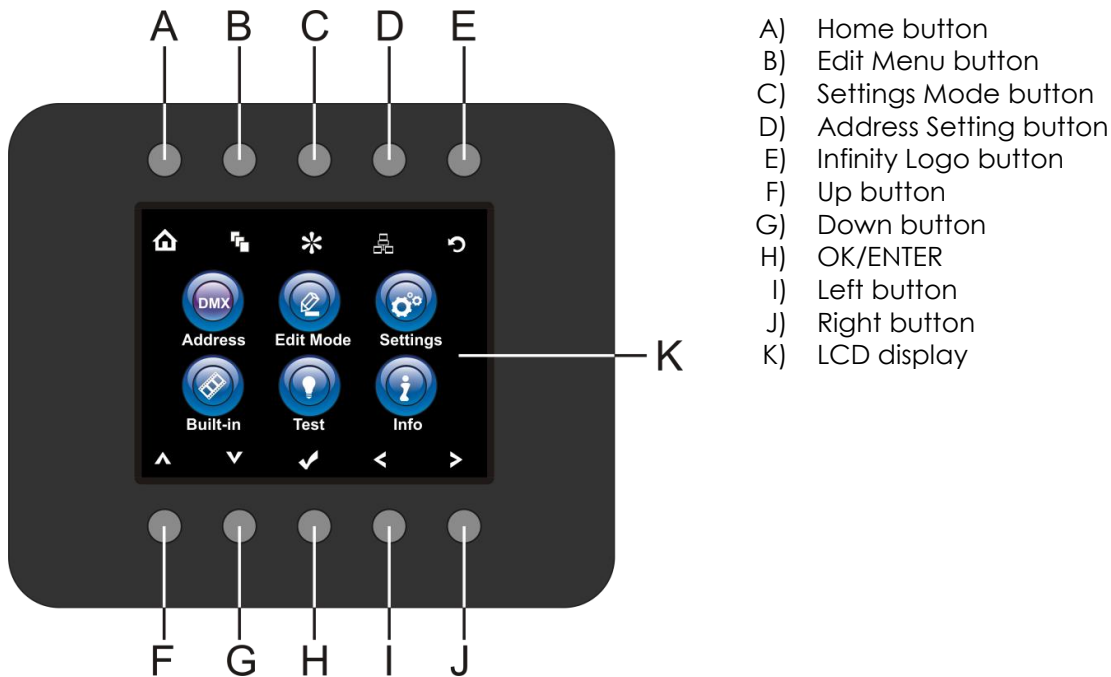- DAP Audio DMX Terminator 5-pin. **Ordercode** FLA43.

Control Panel

A) Home button
B) Edit Menu button
C) Settings Mode button
D) Address Setting button
E) Infinity Logo button
F) Up button
G) Down button
H) OK/ENTER
I) Left button
J) Right button
K) LCD display

Fig. 08

Control Mode

The fixtures are individually addressed on a data-link and connected to the controller.
The fixtures respond to the DMX signal from the controller. (When you select the DMX address and save it, the controller will display the saved DMX address the next time.)

DMX Addressing

The control panel on the front side of the base allows you to assign the DMX fixture address, which is the first channel from which the Infinity will respond to the controller.
Please note when you use the controller, the unit has **31** channels.
When using multiple Infinitys, make sure you set the DMX addresses right.
Therefore, the DMX address of the first Infinity should be **1(001)**; the DMX address of the second Infinity should be **1+31=32 (032)**; the DMX address of the third Infinity should be **32+31=63 (063)**, etc.
Please, be sure that you don't have any overlapping channels in order to control each Infinity correctly.
If two or more Infinitys are addressed similarly, they will work similarly.

Controlling:

After having addressed all Infinity fixtures, you may now start operating these via your lighting controller.
Note: After switching on, the Infinity will automatically detect whether DMX 512 data is received or not. If there is no data received at the DMX-input, the "**LED**" on the control panel will not flash.
The problem may be:
● The XLR cable from the controller is not connected with the input of the Infinity.
● The controller is switched off or defective, the cable or connector is detective, or the signal wires are swapped in the input connector.

Note: It's necessary to insert a XLR termination plug (with 120 Ohm) in the last fixture in order to ensure proper transmission on the DMX data link.
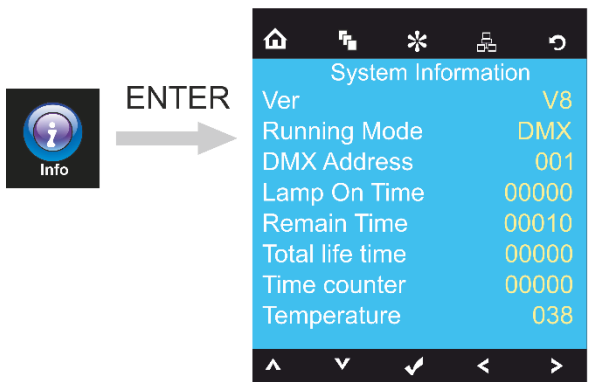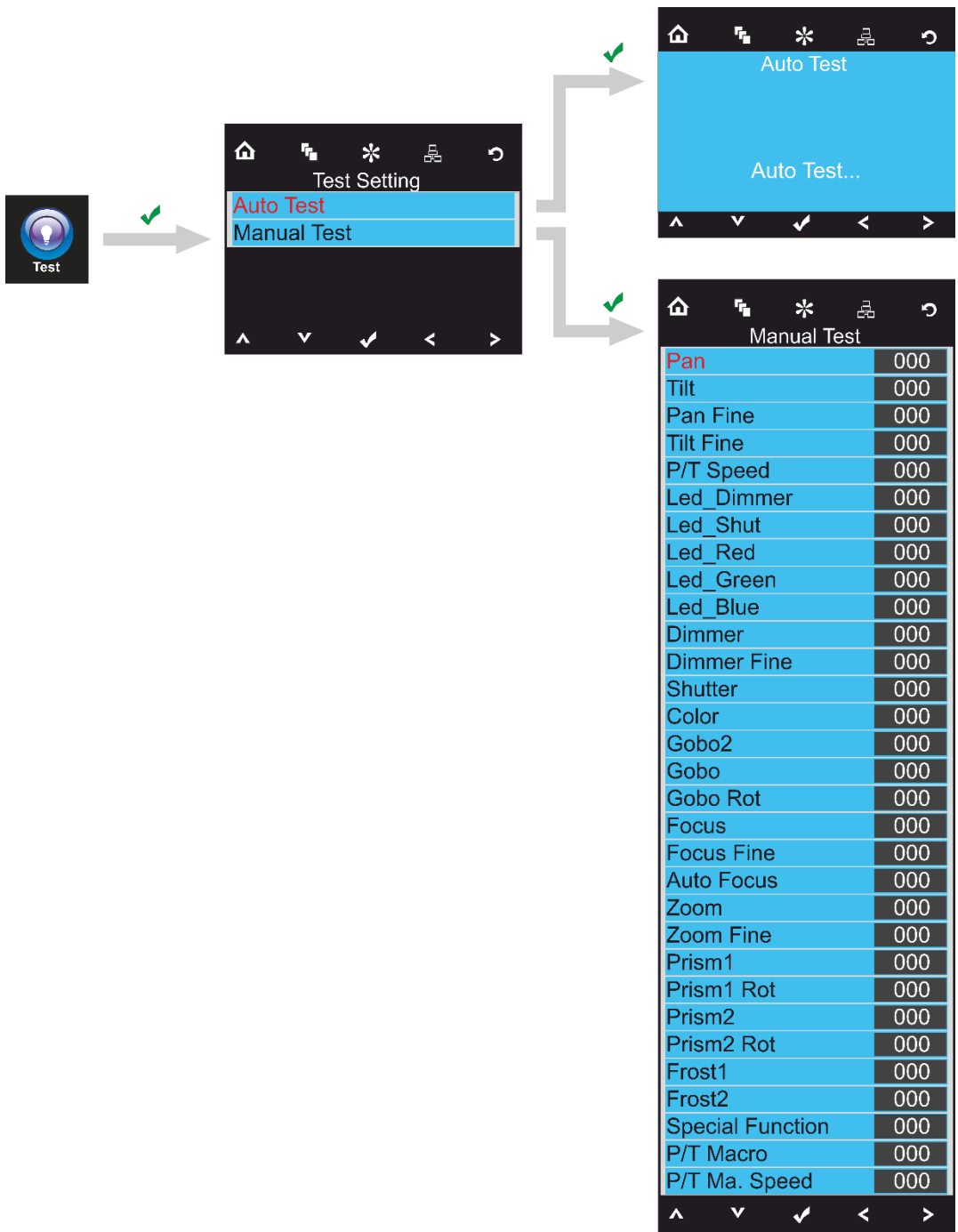
⚠ Display Off after 40 seconds ⚠

When no button is pressed for 40 seconds, the display will turn off.
To light up the display, you have to press one of the menu buttons described above.
Once you have pressed the button, the display will light up.
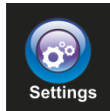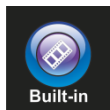
Menu Overview

Address

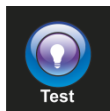**Address Setting** (31CH)

001

Edit Mode

Edit Mode

DMX MODE 26(CH)	YES
DMX MODE 31(CH)	NO
MASTER MODE	NO

Settings

Settings

Pan Reverse	YES
Tilt Reverse	NO
Screen Reverse	NO
Auto Screen. Re	NO
Pan Angle	540
Tilt Angle	270
BL.0.P/T Move	NO
BL.0.Color Move	NO
BL.0.Gobo Move	NO
Wireless Enable	NO
Wireless Unlink	NO
Life Time	
Lamp Settings	
Maintenance Timer	
Reset Function	
Factory Settings	NO

Built-in

Built-in

Program Number 0	YES
Program Number 1	NO
Program Number 2	NO
Program Number 3	NO
Program Number 4	NO
Program Number 5	NO
Program Number 6	NO
Program Number 7	NO
Program Number 8	NO
Program Number 9	NO

Life time reset

Time counter	00001
Total life time	00001
Set password	

Lamp Setting

On/Off	ON
State/Power On	ON
Off via DMX	NO
On if DMX On	NO
Off if DMX Off	NO
Ignition Delay	000
Low Power Delay	000
Reset Lamp Time	NO

Maintenance Timer

| Interval | 250 |
| Remain Time | 248 |

Reset Functions

Pan/Tilt	YES
Shutter/Prism	NO
Color	NO
Gobo	NO
Zoom/Frost/Focus	NO
All	NO

Password

Old password	00000
New password	00000
Confirm new password	00000

Test Setting

Auto Test
Manual Test

Auto Test

Auto Test...

Manual Test

Pan	000
Tilt	000
Pan Fine	000
Tilt Fine	000
P/T Speed	000
Led_Dimmer	000
Led_Shut	000
Led_Red	000
Led_Green	000
Led_Blue	000
Dimmer	000
Dimmer Fine	000
Shutter	000
Color	000
Gobo2	000
Gobo	000
Gobo Rot	000
Focus	000
Focus Fine	000
Auto Focus	000
Zoom	000
Zoom Fine	000
Prism1	000
Prism1 Rot	000
Prism2	000
Prism2 Rot	000
Frost1	000
Frost2	000
Special Function	000
P/T Macro	000
P/T Ma. Speed	000

ENTER

System Information

Ver	V8
Running Mode	DMX
DMX Address	001
Lamp On Time	00000
Remain Time	00010
Total life time	00000
Time counter	00000
Temperature	038

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Main Menu Options

 DMX address

 Edit Mode

 Settings Menu

 Built-in Programs

 Test Mode

 Info

⌂	Home	∧	Up
	Edit Menu	∨	Down
✳	Setting Mode	✔	OK
	Address Setting	‹	Left
↺	Infinity Logo	›	Right

CAUTION! DANGER!!!
**Never point the light beam at any humans, animals or objects.
It will result in severe burns and/or damage of property!!!**

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1. DMX Addressing
With this menu you can set the DMX address.

01) Press the [ ] button or press the ‹ › ∧ ∨ buttons to select [DMX Address].
02) Now you can adjust the device's DMX settings.
03) Press the ✔ button, to confirm. You can choose from 512 different DMX addresses.
04) Press the ‹ › and/or ∧ ∨ buttons to select the required address from **001** Up/Down **512**.
05) Once you have set the desired DMX address, press the ✔ button to store the settings.

2. Edit Mode

With this menu you can set your desired mode.

01) Press the ⌂ button or press the ‹ › ∧ ∨ buttons to select **Edit Mode** .

02) Press the ✔ button, to confirm. You can choose one of the 3 available modes.

03) Press the ∧ ∨ buttons to select the required mode:

DMX MODE 26(CH)	YES
DMX MODE 31(CH)	NO
MASTER MODE	NO

04) Once you have selected the desired mode, press the ‹ › buttons to change the value from NO to YES.

05) Press the ✔ button to confirm your choice.

06) If the device has been set to MASTER MODE, all the connected slave devices will act the same as the master device.

07) If the device has been set to slave, it will react the same as its master device.

3. Settings Menu

With this menu you can set your desired mode.
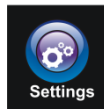
01) Press the ⌂ button and select **Settings** .

02) Press the ✔ button, to confirm. You can choose 16 different modes.
Press the **UP/DOWN** buttons to select the required mode:

Life time reset
Time counter	00001
Total life time	00001
Set password	

Password
Old password	00000
New password	00000
Confirm new password	00000

Lamp Setting
On/Off	ON
State/Power On	ON
Off via DMX	NO
On if DMX On	NO
Off if DMX Off	NO
Ignition Delay	000
Low Power Delay	000
Reset Lamp Time	NO

Settings
Pan Reverse	YES
Tilt Reverse	NO
Screen Reverse	NO
Auto Screen. Re	NO
Pan Angle	540
Tilt Angle	270
BL.0.P/T Move	NO
BL.0.Color Move	NO
BL.0.Gobo Move	NO
Wireless Enable	NO
Wireless Unlink	NO
Life Time	
Lamp Settings	
Maintenance Timer	
Reset Function	
Factory Settings	NO

Maintenance Timer
Interval	250
Remain Time	248

Reset Functions
Pan/Tilt	YES
Shutter/Prism	NO
Color	NO
Gobo	NO
Zoom/Frost/Focus	NO
All	NO

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03) Once you have selected the desired mode, press the [<] [>] buttons to change the value from NO to YES.

04) A couple of menus have more options than the regular YES or NO function:
- Pan Angle: 540°, 360°, 180°
- Tilt Angle: 270°, 180°, 90°

3.1. Life Time

With this menu you can reset the device's counters.

01) Press the [∧] [∨] buttons to select Life Time and press the [✔] button to open the menu.

02) Press the [∧] [∨] buttons to choose one of the 3 reset options:
- Time Counter (the time counter will be reset)
- Total Life Time (the device's operation time counter will be reset)
- Set Password

03) If you select Time Counter or Total Life Time, press the [✔] button to open the selection menu.

04) Press the [<] [>] buttons to choose either YES or NO. Press the [✔] button to confirm.

3.1.1. Set Password

With this menu you can set the new password for the device.

01) Press the [∧] [∨] buttons to select Set Password and press the [✔] button to open the menu.

02) The following screen will pop up:
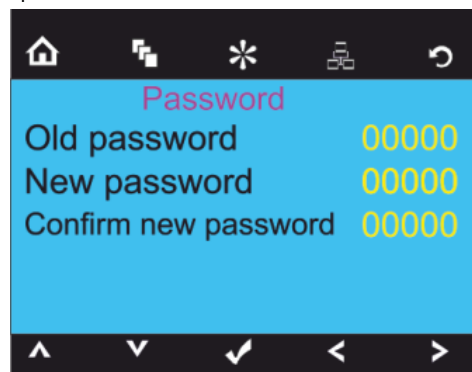
03) Press the [<] [>] buttons to select the digit which you want to edit.

04) Press the [∧] [∨] buttons to adjust the values.

3.2. Lamp Settings

With this menu you can set the lamp settings.

01) Press the [∧] [∨] buttons to select LAMP SETTINGS and press the [✔] button to open the menu.

02) You can now adjust the following options:
- ON/OFF (Set whether the lamp is ON/OFF, on start-up)
- STATE/POWER ON (Set whether the lamp is ON, once electrical power is received)
- OFF VIA DMX (Switch the lamp ON via DMX)
- ON IF DMX ON (The lamp is ON when a DMX signal is received)
- OFF IF DMX OFF (The lamp is OFF when no DMX signal is received)
- IGNITION DELAY (0-255, Lamp trigger delay)
- LOW POWER DELAY (0-255)
- RESET LAMP TIME (YES/NO)

03) Once you have chosen the desired option, press the [✔] button to enter edition mode.

04) Press the [<] [>] buttons to select YES or NO and press the [✔] button again, to confirm.

3.3. Maintenance Timer

With this menu you can reset the device's counters.

01) Press the ∧ ∨ buttons to select MAINTENANCE TIMER and press the ✔ button to open the menu.

02) Press the ∧ ∨ buttons to choose one of the 2 options:
   - INTERVAL (0-250, maintenance interval)
   - REMAIN TIME (NO-RESET, countdown)

03) If you select INTERVAL, press the ✔ button to open the selection menu.

04) Press the < > buttons to set the maintenance interval. The adjustment range is between 0-250.

05) Press the ✔ button to confirm.

06) If you select REMAIN TIME, press the ✔ button to open the selection menu.

07) Press the < > buttons to set the REMAIN TIME to No/Reset.

08) Press the ✔ button to confirm.

3.4. Reset

With this menu you can reset the device's settings.

01) In SETTINGS menu, press the ∧ ∨ buttons to select RESET FUNCTION and press the ✔ button to open the menu.

02) Press the ∧ ∨ buttons to choose one of the 6 options:
   - PAN/TILT (Pan/Tilt reset)
   - SHUTTER/PRISM (shutter/prism reset)
   - COLOR (color wheel reset)
   - GOBO (gobo wheel reset)
   - ZOOM/FROST/FOCUS (zoom/frost focus effect reset)
   - ALL (complete settings reset)

03) Once you have chosen the desired option, press the ✔ button to proceed to edition mode.

04) Press the < > buttons to choose between YES or NO.

05) Press the ✔ button to confirm your choice.

4. Built-in Programs

With this menu you can set the desired built-in program.

01) Press the [home] button or press the [<] [>] [∧] [∨] buttons to select [Built-in].

02) Press the [✔] button to enter the menu.

03) Press the [∧] [∨] buttons to select the desired built-in program.

Program Number 0	YES
Program Number 1	NO
Program Number 2	NO
Program Number 3	NO
Program Number 4	NO
Program Number 5	NO
Program Number 6	NO
Program Number 7	NO
Program Number 8	NO
Program Number 9	NO

04) Press the [✔] button to confirm your choice.

05) Press the [<] [>] buttons to choose either YES or NO and press the [✔] button to activate the desired built-in program.

5. Test Menu
With this menu you can set your desired mode.
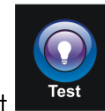
01) Press the 🏠 button or press the ◀ ▶ ▲ ▼ buttons to select [Test].

02) Press the ✔ button to enter the menu.

03) Press the ▲ ▼ buttons to choose one of the 2 modes:
- AUTO TEST
- MANUAL TEST

04) Press the ✔ to confirm your choice.

Test Setting	
Auto Test	
Manual Test	

Auto Test	
Auto Test...	

Manual Test	
Pan	000
Tilt	000
Pan Fine	000
Tilt Fine	000
P/T Speed	000
Led_Dimmer	000
Led_Shut	000
Led_Red	000
Led_Green	000
Led_Blue	000
Dimmer	000
Dimmer Fine	000
Shutter	000
Color	000
Gobo2	000
Gobo	000
Gobo Rot	000
Focus	000
Focus Fine	000
Auto Focus	000
Zoom	000
Zoom Fine	000
Prism1	000
Prism1 Rot	000
Prism2	000
Prism2 Rot	000
Frost1	000
Frost2	000
Special Function	000
P/T Macro	000
P/T Ma. Speed	000

05) If you have selected AUTO TEST mode, the device will automatically test all its functions.

06) If you have selected MANUAL TEST mode, press the ▲ ▼ buttons to select the desired option.

07) Press the ✔ button to enter edition mode.

08) Press the ◀ ▶ buttons to change the values from 0 to 255.

09) Once you have adjusted the desired setting, press the ✔ button to store changes and test the function.

6. System information
With this menu you can set your desired mode.

01) Press the ⌂ button or press the < > ∧ ∨ buttons to select ⓘ Info .

02) Press the ✔ button to enter the menu.

03) The following screen will pop up:

ⓘ Info → ENTER →

⌂	⧉	✳	品	↺

System Information

Ver	V8
Running Mode	DMX
DMX Address	001
Lamp On Time	00000
Remain Time	00010
Total life time	00000
Time counter	00000
Temperature	038

∧	∨	✔	<	>
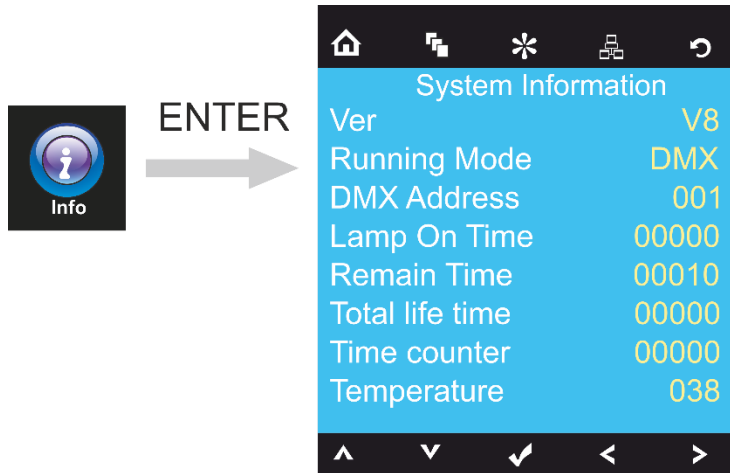
04) You can now monitor the device's status.

DMX Channels

26 channels

Channel 1 – Horizontal movement (Pan)
Move the slider up, in order to move head horizontally (PAN).
Gradual head adjustment from one end of the slider to the other (0-255, 128-center).
The head can be turned by 540° and stopped at any position you wish.

Channel 2 – Vertical movement (Tilt)
Move the slider up, in order to move head vertically (TILT).
Gradual head adjustment from one end of the slider to the other (0-255, 128-center).
The head can be turned by 270° and stopped at any position you wish.

Channel 3 – Pan fine 16 bit

Channel 4 – Tilt fine 16 bit

Channel 5 – PAN/TILT Speed

0-255	From fast to slow

Channel 6 – Ring dimmer ⚠ CH7 must be set between 4-255 ⚠

0-255	Dimmer intensity, from dark to brightest

Channel 7 – Ring shutter/strobe ⚠ CH6 must be open ⚠

0-3	Close
4-7	Shutter open
8-76	Strobe flash, from slow to fast
77-145	Pulse strobe, from slow to fast
146-215	Random strobe, from slow to fast
216-255	Shutter open

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Channel 8 – Ring Red ⚠ CH6-7 must be open ⚠

0-255	Gradual adjustment Red, from dark to brightest

Channel 9 – Ring Green ⚠ CH6-7 must be open ⚠

0-255	Gradual adjustment Green, from dark to brightest

Channel 10 – Ring Blue ⚠ CH6-7 must be open ⚠

0-255	Gradual adjustment Blue, from dark to brightest

Channel 11 – Master dimmer

0-255	Dimmer intensity, from OFF to full ON

Channel 12 – Shutter/Strobe ⚠ CH11 must be open ⚠

0-7	Close
8-15	Shutter open
16-131	Strobe flash, from slow to fast
132-167	Fast fade out/slow fade in, from slow to fast
168-203	Fast fade in/slow fade out, from slow to fast
204-239	Pulse strobe, from slow to fast
240-247	Random strobe, from slow to fast
248-255	Shutter open

Channel 13 – Color wheel ⚠ CH11 and CH12 must be open ⚠

0-3	Open (White)
4-7	Red
8-11	Orange
12-15	Cyan
16-19	Harlequin Green
20-23	Yellow
24-27	Forest Green
28-31	Magenta
32-35	Marine Blue
36-39	Amber
40-43	CTB
44-47	Full CTO
48-51	½ CTO
52-59	UV
60-71	Open (White)/Red
72-80	Red/Orange
81-89	Orange/Cyan
90-98	Cyan/Harlequin Green
99-107	Harlequin Green/Yellow
108-116	Yellow/Forest Green
117-125	Forest Green/Magenta
126-134	Magenta/Marine Blue
135-143	Marine Blue/Amber
144-153	Amber/CTB
154-162	CTB/Full CTO
163-171	Full CTO/½ CTO
172-180	½ CTO/UV
181-187	UV/Open (White)
188-219	Counterclockwise color flow (CCW), from fast to slow
220-223	Stop
224-255	Clockwise color flow (CW), from slow to fast

Channel 14 – Static Gobo wheel ⚠ CH11 and CH12 must be open ⚠

0-3	Open
4-6	Gobo 1
7-9	Gobo 2
10-12	Gobo 3
13-15	Gobo 4
16-18	Gobo 5
19-21	Gobo 6
22-24	Gobo 7
25-27	Gobo 8
28-30	Gobo 9
31-33	Gobo 10
34-36	Gobo 11
37-39	Gobo 12
40-42	Gobo 13
43-59	Open
60-63	Static Gobo 1 shake effect, from slow to fast
64-67	Static Gobo 2 shake effect, from slow to fast
68-71	Static Gobo 3 shake effect, from slow to fast
72-75	Static Gobo 4 shake effect, from slow to fast
76-79	Static Gobo 5 shake effect, from slow to fast
80-83	Static Gobo 6 shake effect, from slow to fast
84-87	Static Gobo 7 shake effect, from slow to fast
88-91	Static Gobo 8 shake effect, from slow to fast
92-95	Static Gobo 9 shake effect, from slow to fast
96-99	Static Gobo 10 shake effect, from slow to fast
100-103	Static Gobo 11 shake effect, from slow to fast
104-107	Static Gobo 12 shake effect, from slow to fast
108-111	Static Gobo 13 shake effect, from slow to fast
112-127	Open
128-189	Counterclockwise gobo flow, from fast to slow
190-193	Stop
194-255	Clockwise gobo flow, from slow to fast

Channel 15 – Rotating Gobo wheel ⚠ CH11 and CH12 must be open ⚠

0	Not functional
1-5	Open
6-11	Gobo 1
12-17	Gobo 2
18-23	Gobo 3
24-29	Gobo 4
30-35	Gobo 5
36-41	Gobo 6
42-47	Gobo 7
48-53	Gobo 8
54-63	Gobo 9
64-73	Rotating Gobo 9 shake effect, from slow to fast
74-79	Rotating Gobo 8 shake effect, from slow to fast
80-85	Rotating Gobo 7 shake effect, from slow to fast
86-91	Rotating Gobo 6 shake effect, from slow to fast
92-97	Rotating Gobo 5 shake effect, from slow to fast
98-103	Rotating Gobo 4 shake effect, from slow to fast
104-109	Rotating Gobo 3 shake effect, from slow to fast
110-115	Rotating Gobo 2 shake effect, from slow to fast
116-121	Rotating Gobo 1 shake effect, from slow to fast
122-127	Open

| 128-191 | Clockwise rotation (CW) rainbow effect from slow to fast |
| 192-255 | Counterclockwise rotation (CCW) rainbow effect from slow to fast |

Channel 16 – Gobo rotation ⚠ CH15 must be set between 6-121 ⚠

0-63	Gobo indexing
64-147	Clockwise gobo rotation, from slow to fast
148-231	Counterclockwise gobo rotation, from slow to fast
232-255	Gobo bouncing, from quick short bounce to longer rotation bounce

Channel 17 – Focus

| 0-255 | Motorized focus, from small to big |

Channel 18 – Auto focus

| 0-10 | Not functional |
| 11-255 | Auto focus ON |

In order for the auto focus function to work properly, follow the steps below:
01) Set **CH18** between **11-255**.
02) Set **CH19** to **255**.
03) Focus the image by adjusting **CH17**.
04) Now, when adjusting **CH19**, auto focus will readjust, too.

Note: Auto focus range: 15-20 meters.

Channel 19 – Zoom

| 0-255 | Zoom adjustment, from big to small |

Channel 20 – Prism 1 (5-facet)

| 0-4 | Not functional |
| 5-255 | Prism effect ON |

Channel 21 – Prism 1 rotation ⚠ CH20 must be set between 5-255 ⚠

0-127	Prism indexing
128-189	Clockwise prism rotation, from fast to slow
190-193	Stop
194-255	Counterclockwise prism rotation, from slow to fast

Channel 22 – Prism 2 (8-facet)

| 0-4 | Not functional |
| 5-255 | Prism effect ON |

Channel 23 – Prism 2 rotation ⚠ CH22 must be set between 5-255 ⚠

0-127	Prism indexing
128-189	Clockwise prism rotation, from fast to slow
190-193	Stop
194-255	Counterclockwise prism rotation, from slow to fast

Channel 24 – Frost

| 0-255 | Frost effect, from OFF to FULL |

Channel 25 – Beam diffraction

| 0-7 | Not functional |
| 8-255 | Beam diffraction ON |

Channel 26 – Functions

0-29	Not functional
30-39	Regular Dim Mode
40-49	Linear Dim Mode
50-59	X/Y Fast Mode, after 3 seconds
60-69	X/Y Regular, after 3 seconds
70-79	Blackout during Pan/Tilt movement, after 3 seconds
80-89	Disable blackout during Pan/Tilt movement, after 3 seconds
90-99	Color wheel blackout during color wheel movement, after 3 seconds
100-109	Disable color wheel blackout during color wheel movement, after 3 seconds
110-119	Gobo wheel blackout during gobo wheel movement, after 3 seconds
120-129	Disable gobo wheel blackout during gobo wheel movement, after 3 seconds
130-139	Lamp On
140-149	Reset Pan/Tilt, after 3 seconds
150-159	Reset Color wheel rotation, after 3 seconds
160-169	Reset Gobo rotation, after 3 seconds
170-179	Reset Shutter/Prism, after 3 seconds
180-189	Not functional
190-199	Reset Frost Effect/Focus/Zoom, after 3 seconds
200-209	Reset all, after 3 seconds
210-219	Blackout Pan/Tilt/Color wheel/Gobo wheel, after 3 seconds
220-229	Disable blackout Pan/Tilt/Color wheel/Gobo wheel, after 3 seconds
230-239	Lamp Off
240-247	X/Y Smoothing ON
248-255	X/Y Smoothing OFF

31 channels

Channel 1 – Horizontal movement (Pan)
Move the slider up, in order to move head horizontally (PAN).
Gradual head adjustment from one end of the slider to the other (0-255, 128-center).
The head can be turned by 540° and stopped at any position you wish.

Channel 2 – Vertical movement (Tilt)
Move the slider up, in order to move head vertically (TILT).
Gradual head adjustment from one end of the slider to the other (0-255, 128-center).
The head can be turned by 270° and stopped at any position you wish.

Channel 3 – Pan fine 16 bit

Channel 4 – Tilt fine 16 bit

Channel 5 – PAN/TILT Speed

0-255	From fast to slow

Channel 6 – Ring dimmer ⚠ **CH7 must be set between 4-255** ⚠

0-255	Dimmer intensity, from dark to brightest

Channel 7 – Ring shutter/strobe ⚠ **CH6 must be open** ⚠

0-3	Close
4-7	Shutter open
8-76	Strobe flash, from slow to fast
77-145	Pulse strobe, from slow to fast
146-215	Random strobe, from slow to fast
216-255	Shutter open

Channel 8 – Ring Red ⚠ CH6-7 must be open ⚠

0-255	Gradual adjustment Red, from dark to brightest

Channel 9 – Ring Green ⚠ CH6-7 must be open ⚠

0-255	Gradual adjustment Green, from dark to brightest

Channel 10 – Ring Blue ⚠ CH6-7 must be open ⚠

0-255	Gradual adjustment Blue, from dark to brightest

Channel 11 – Master dimmer

0-255	Dimmer intensity, from OFF to full ON

Channel 12 – Fine dimmer

0-255	Dimmer intensity, from OFF to full ON

Channel 13 – Shutter/Strobe ⚠ CH11 must be open ⚠

0-7	Close
8-15	Shutter open
16-131	Strobe flash, from slow to fast
132-167	Fast fade out/slow fade in, from slow to fast
168-203	Fast fade in/slow fade out, from slow to fast
204-239	Pulse strobe, from slow to fast
240-247	Random strobe, from slow to fast
248-255	Shutter open

Channel 14 – Color wheel ⚠ CH11 and CH13 must be open ⚠

0-3	Open (White)
4-7	Red
8-11	Orange
12-15	Cyan
16-19	Harlequin Green
20-23	Yellow
24-27	Forest Green
28-31	Magenta
32-35	Marine Blue
36-39	Amber
40-43	CTB
44-47	Full CTO
48-51	½ CTO
52-59	UV
60-71	Open (White)/Red
72-80	Red/Orange
81-89	Orange/Cyan
90-98	Cyan/Harlequin Green
99-107	Harlequin Green/Yellow
108-116	Yellow/Forest Green
117-125	Forest Green/Magenta
126-134	Magenta/Marine Blue
135-143	Marine Blue/Amber
144-153	Amber/CTB
154-162	CTB/Full CTO
163-171	Full CTO/½ CTO
172-180	½ CTO/UV
181-187	UV/Open (White)
188-219	Counterclockwise color flow (CCW), from fast to slow
220-223	Stop
224-255	Clockwise color flow (CW), from slow to fast

Channel 15 – Static Gobo wheel ⚠ CH11 and CH13 must be open ⚠

0-3	Open
4-6	Gobo 1
7-9	Gobo 2
10-12	Gobo 3
13-15	Gobo 4
16-18	Gobo 5
19-21	Gobo 6
22-24	Gobo 7
25-27	Gobo 8
28-30	Gobo 9
31-33	Gobo 10
34-36	Gobo 11
37-39	Gobo 12
40-42	Gobo 13
43-59	Open
60-63	Static Gobo 1 shake effect, from slow to fast
64-67	Static Gobo 2 shake effect, from slow to fast
68-71	Static Gobo 3 shake effect, from slow to fast
72-75	Static Gobo 4 shake effect, from slow to fast
76-79	Static Gobo 5 shake effect, from slow to fast
80-83	Static Gobo 6 shake effect, from slow to fast
84-87	Static Gobo 7 shake effect, from slow to fast
88-91	Static Gobo 8 shake effect, from slow to fast
92-95	Static Gobo 9 shake effect, from slow to fast
96-99	Static Gobo 10 shake effect, from slow to fast
100-103	Static Gobo 11 shake effect, from slow to fast
104-107	Static Gobo 12 shake effect, from slow to fast
108-111	Static Gobo 13 shake effect, from slow to fast
112-127	Open
128-189	Counterclockwise gobo flow, from fast to slow
190-193	Stop
194-255	Clockwise gobo flow, from slow to fast

Channel 16 – Rotating Gobo wheel ⚠ CH11 and CH13 must be open ⚠

0	Not functional
1-5	Open
6-11	Gobo 1
12-17	Gobo 2
18-23	Gobo 3
24-29	Gobo 4
30-35	Gobo 5
36-41	Gobo 6
42-47	Gobo 7
48-53	Gobo 8
54-63	Gobo 9
64-73	Rotating Gobo 9 shake effect, from slow to fast
74-79	Rotating Gobo 8 shake effect, from slow to fast
80-85	Rotating Gobo 7 shake effect, from slow to fast
86-91	Rotating Gobo 6 shake effect, from slow to fast
92-97	Rotating Gobo 5 shake effect, from slow to fast
98-103	Rotating Gobo 4 shake effect, from slow to fast
104-109	Rotating Gobo 3 shake effect, from slow to fast
110-115	Rotating Gobo 2 shake effect, from slow to fast
116-121	Rotating Gobo 1 shake effect, from slow to fast
122-127	Open

| 128-191 | Clockwise rotation (CW) rainbow effect from slow to fast |
| 192-255 | Counterclockwise rotation (CCW) rainbow effect from slow to fast |

Channel 17 – Gobo rotation ⚠ CH16 must be set between 6-121 ⚠

0-63	Gobo indexing
64-147	Clockwise gobo rotation, from slow to fast
148-231	Counterclockwise gobo rotation, from slow to fast
232-255	Gobo bouncing, from quick short bounce to longer rotation bounce

Channel 18 – Focus

| 0-255 | Motorized focus, from small to big |

Channel 19 – Fine focus

| 0-255 | Fine focus, from small to big |

Channel 20 – Auto focus

| 0-10 | Not functional |
| 11-255 | Auto focus ON |

In order for the auto focus function to work properly, follow the steps below:
01) Set **CH20** between **11-255**.
02) Set **CH21** to **255**.
03) Focus the image by adjusting **CH18**.
04) Now, when adjusting **CH21**, auto focus will readjust, too.

Note: Auto focus range: 15-20 meters.

Channel 21 – Zoom

| 0-255 | Zoom adjustment, from big to small |

Channel 22 – Fine zoom

| 0-255 | Fine zoom adjustment, from big to small |

Channel 23 – Prism 1 (5-facet)

| 0-4 | Not functional |
| 5-255 | Prism effect ON |

Channel 24 – Prism 1 rotation ⚠ CH23 must be set between 5-255 ⚠

0-127	Prism indexing
128-189	Clockwise prism rotation, from fast to slow
190-193	Stop
194-255	Counterclockwise prism rotation, from slow to fast

Channel 25 – Prism 2 (8-facet)

| 0-4 | Not functional |
| 5-255 | Prism effect ON |

Channel 26 – Prism 2 rotation ⚠ CH25 must be set between 5-255 ⚠

0-127	Prism indexing
128-189	Clockwise prism rotation, from fast to slow
190-193	Stop
194-255	Counterclockwise prism rotation, from slow to fast

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Channel 27 – Frost

0-255	Frost effect, from OFF to FULL

Channel 28 – Beam diffraction

0-7	Not functional
8-255	Beam diffraction ON

Channel 29 – Functions

0-29	Not functional
30-39	Regular Dim Mode
40-49	Linear Dim Mode
50-59	X/Y Fast Mode, after 3 seconds
60-69	X/Y Regular, after 3 seconds
70-79	Blackout during Pan/Tilt movement, after 3 seconds
80-89	Disable blackout during Pan/Tilt movement, after 3 seconds
90-99	Color wheel blackout during color wheel movement, after 3 seconds
100-109	Disable color wheel blackout during color wheel movement, after 3 seconds
110-119	Gobo wheel blackout during gobo wheel movement, after 3 seconds
120-129	Disable gobo wheel blackout during gobo wheel movement, after 3 seconds
130-139	Lamp On
140-149	Reset Pan/Tilt, after 3 seconds
150-159	Reset Color wheel rotation, after 3 seconds
160-169	Reset Gobo rotation, after 3 seconds
170-179	Reset Shutter/Prism, after 3 seconds
180-189	Not functional
190-199	Reset Frost Effect/Focus/Zoom, after 3 seconds
200-209	Reset all, after 3 seconds
210-219	Blackout Pan/Tilt/Color wheel/Gobo wheel, after 3 seconds
220-229	Disable blackout Pan/Tilt/Color wheel/Gobo wheel, after 3 seconds
230-239	Lamp Off
240-247	X/Y Smoothing ON
248-255	X/Y Smoothing OFF

Channel 30 – Built-in programs

0-7	Not functional
8-15	Program 1
16-23	Program 2
24-31	Program 3
32-39	Program 4
40-47	Program 5
48-55	Program 6
56-63	Program 7
64-71	Program 8
72-79	Program 9
80-87	Program 10
88-95	Program 11
96-103	Program 12
104-111	Program 13
112-119	Program 14
120-127	Program 15
128-135	Program 16
136-143	Program 17
144-151	Program 18
152-159	Program 19
160-167	Program 20
168-175	Program 21
176-183	Program 22

184-191	Program 23
192-199	Program 24
200-207	Program 25
208-215	Program 26
216-223	Program 27
224-231	Program 28
232-239	Program 29
240-247	Program 30
248-255	Program 31

Channel 31 – Built-in program speed ⚠ CH30 must be open ⚠

0-255	From fast to slow

Channel Settings

41532 Infinity IB-16R Fixture-settings

Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Function	Pan	Tilt	Pan-Fine	Tilt-Fine	Pan/Tilt Speed	Dimmer Ring	Shutter Strobe Ring	Dimmer Ring Red	Dimmer Ring Green	Dimmer Ring Blue	Dimmer	Dimmer 16-bit	Shutter Strobe	Color wheel	Static Gobo wheel	Rotating Gobo wheel

41532 Infinity IB-16R Fixture-settings

Channel	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Function	Gobo Rotation	Focus	Focus Fine	Auto Focus	Zoom	Zoom Fine	Prism 1	Prism 1 Rotation	Prism 2	Prism 2 Rotation	Frost	Beam Diffraction	Functions	Built-in Programs	Program Speed

Maintenance

The operator has to make sure that safety-related and machine-technical installations are to be inspected by an expert after every year in the course of an acceptance test.
The operator has to make sure that safety-related and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:
01) All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
02) There may not be any deformations on housings, fixations and installation spots.
03) Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
04) The electric power supply cables must not show any damages or material fatigue.

The iB-16R requires almost no maintenance. However, you should keep the unit clean.
Otherwise, the fixture's light output will be significantly reduced. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Wipe lens clean with glass cleaner and a soft cloth. Do not use alcohol or solvents.
The front lens will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light-output very quickly.
The cooling fans should be cleaned monthly, with a soft brush.
Please clean internal components once a year with a light brush and vacuum cleaner.
Keep connections clean. Disconnect electric power, and then wipe the DMX connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

Changing the Lamp
01) Disconnect mains power supply. Loosen the 2 screws (E, F) on the back of the housing.
02) Follow directions for installing a new lamp, page 9.

Replacing the Fuse
Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out. If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below:
01) Unplug the unit from electric power source.
02) Insert a flat-head screwdriver into a slot in the fuse cover. Turn the screwdriver to the left, at the same time gently push a bit (Turn and Push). The fuse will come out.
03) Remove the used fuse. If brown or unclear, it is burned out.
04) Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

Gobo Size

01) Disconnect mains power supply and set the switch to OFF.
02) Make sure that the gobo which you want to insert has the same size. For the right size, see below.

Rotating Gobo wheel
Image Size
14,7 mm

15,7 mm
Gobo Size

Thickness 1.1mm

Fig. 09

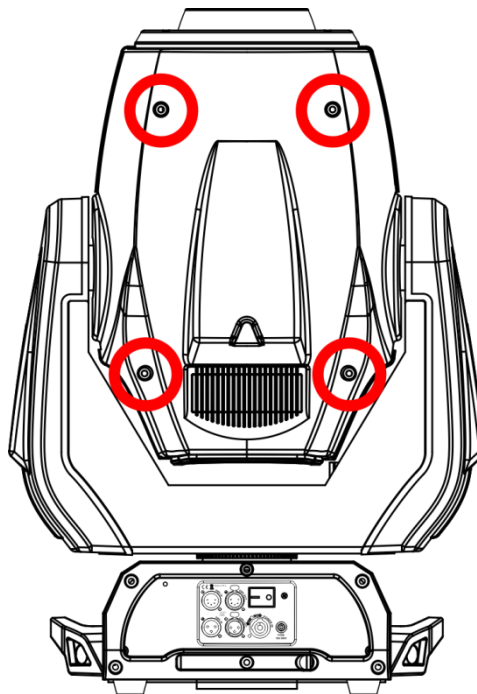**Replacing a Gobo From the Rotating Gobo Wheel**

Fig. 10

01) Before removing the top part of the housing, make sure that the moving head is in the horizontal position. The lens position should be on the bottom, symmetrically speaking.
02) Loosen all the four screws on the back of the housing.
03) Gently tilt the head so that the small metal housing slides out easily.
04) Turn the gobo wheel until you reach the gobo which you want to remove.

05) Gently lift up the gobo holder 10° and then gently pull out the gobo from its position.
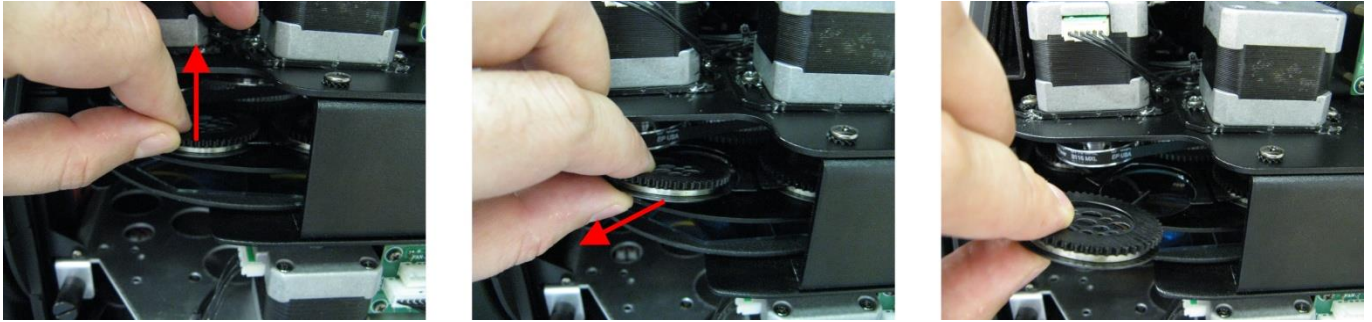
Fig. 11

06) Very carefully take the gobo out of the gobo holder with a pair of pliers.
07) Place the new gobo in the gobo holder. Carefully put the pinchcock back, gently press the pinchcock a little bit together. To do it, you can use a pair of pliers.
08) Put the gobo holder back. At first, you will notice some resistance which is caused by the way in which the holder was built.
09) Replace the maintenance caps and fasten all the screws.

Glass Gobo Orientation

Coated glass gobos are inserted with the coating against the rim of the holder (away from the spring). Textured gobos are inserted with the smooth side against the spring. This provides the best results when combining rotating gobos.

Coated side
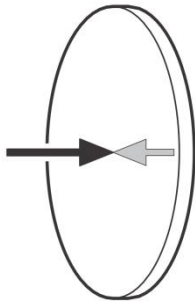
Uncoated side

When an object is held up to the coated side, there is no space between the object and its reflection. The back edge of the gobo cannot be seen when looking through the coated side.
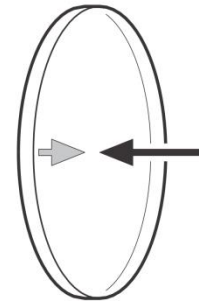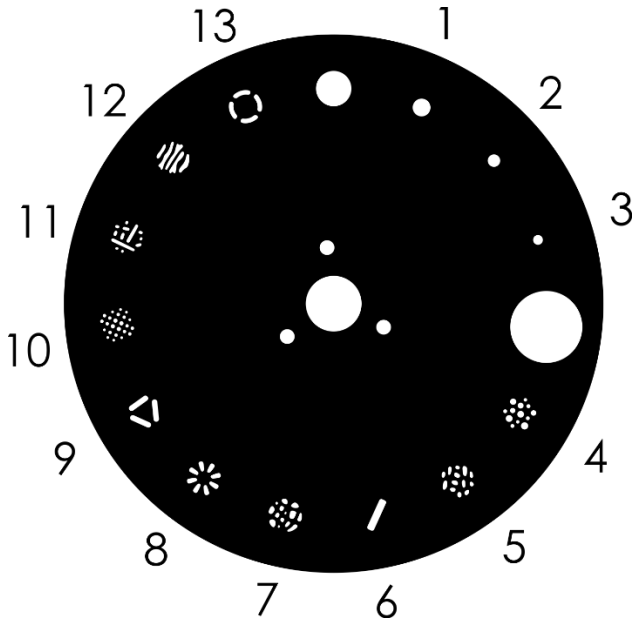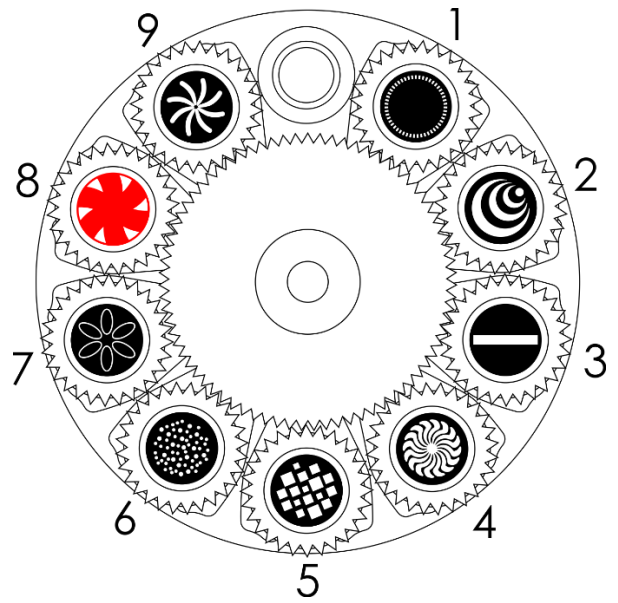
When an object is held up to the uncoated side, there is a space between the object and its reflection. The back edge of the gobo can be seen when looking through the uncoated side.
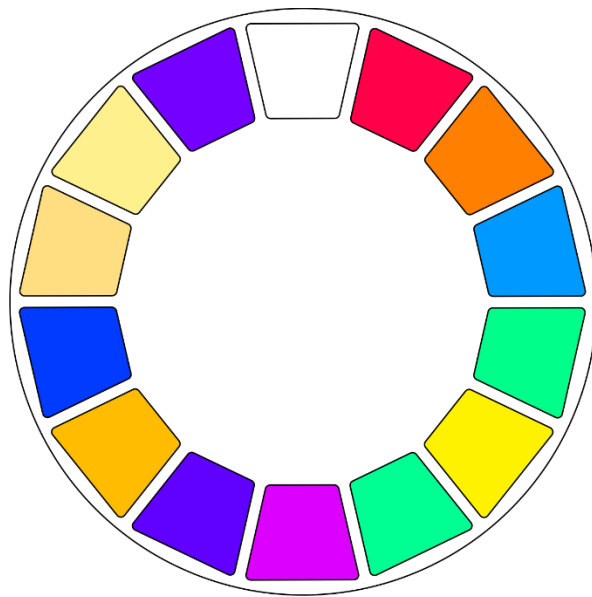
Rotating/Static Gobo Wheels and Color Wheel

Static Gobo wheel

Rotating Gobo wheel

Color wheel

Troubleshooting

This troubleshooting guide is meant to help solve simple problems.

If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

No Light

If the light effect does not operate properly, refer servicing to a technician.

Suspect three potential problem areas as: the power supply, the lamp, the fuse.

01) Power supply. Check if the unit is plugged into an appropriate power supply.
02) The lamp. Replace the lamp. See page 9 for replacing the lamp.
03) The fuse. Replace the fuse. See page 33 for replacing the fuse.
04) If all of the above appears to be O.K., plug the unit in again.
05) If you are unable to determine the cause of the problem, do not open the Infinity, as this may damage the unit and the warranty will become void.
06) Return the device to your Infinity dealer.

No Response to DMX

Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.

01) Check the DMX setting. Make sure that DMX addresses are correct.
02) Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
03) Determine whether the controller or light effect is at fault. Does the controller operate properly with other DMX products? If not, take the controller in for repair. If so, take the DMX cable and the light effect to a qualified technician.

Problem	Probable cause(s)	Solution
One or more fixtures do not function at all	No power to the fixture	• Check if power is switched on and cables are plugged in
	Primary fuse blown	• Replace fuse
Fixtures reset correctly, but all respond erratically or not at all to the controller	The controller is not connected	• Connect controller
	3-pin/5-pin XLR Out of the controller does not match XLR Out of the first fixture on the link (i.e. signal is reversed)	• Install a phase reversing cable between the controller and the first fixture on the link
Fixtures reset correctly, but some respond erratically or not at all to the controller	Poor data quality	• Check data quality. If much lower than 100 percent, the problem may be a bad data link connection, poor quality or broken cables, missing termination plug, or a defective fixture disturbing the link
	Bad data link connection	• Inspect connections and cables. Correct poor connections. Repair or replace damaged cables
	Data link not terminated with 120 Ohm termination plug	• Insert termination plug in output jack of the last fixture on the link
	Incorrect addressing of the fixtures	• Check address setting
	One of the fixtures is defective and disturbs data transmission on the link	• Bypass one fixture at a time until normal operation is restored: unplug both connectors and connect them directly together • Have the defective fixture serviced by a qualified technician
	3-pin/5-pin XLR Out on the fixtures does not match (pins 2 and 3 reversed)	• Install a phase-reversing cable between the fixtures or swap pin 2 and 3 in the fixture that behaves erratically
Shutter closes suddenly	The color wheel, gobo wheel or a gobo has lost its index position and the fixture is resetting the effect	• Contact a technician for servicing, if the problem persists
No light or lamp cuts out intermittently	Fixture is too hot	• Allow the fixture to cool down • Clean the fan • Make sure air vents and the front lens are not blocked • Turn up the air conditioning
	Lamp is damaged	• Disconnect the fixture and replace the lamp
	The power supply settings do not match local AC voltage and frequency	• Disconnect fixture. Check settings and correct if necessary

Product Specifications

Model:	Infinity iB-16R
Input Voltage:	100-240V AC, 50/60Hz
Power consumption:	520W (full output)
DMX linking:	30pcs
Fuse:	F10AL/250V
Dimensions:	430 x 405 x 640 mm (LxWxH)
Weight:	26 kg
Operating and Programming:	
Signal pin OUT:	Pin 1 (earth), pin 2 (-), pin 3 (+)
DMX Mode:	26, 31 channels
Signal input:	3-pin/5-pin XLR IN
Signal output:	3-pin/5-pin XLR OUT
Lamp	
Allowed lamp models*:	Osram Sirius HRI 330W X8 (7400K, 15000lm, 1500 hr) ordercode 81017
Electro-mechanical effects:	
Light source:	Osram Sirius 330W X8, 7400K
Beam angle:	1-4,5°
Motorized zoom:	2,5-8°
Dimmer:	0-100%
Strobe:	0-20Hz
Pan:	540°
Tilt:	270°
Static gobo wheel:	13 metal gobos + open
Rotating gobo wheel:	9 glass gobos + open
Color wheel:	13 colors + white
Prisms:	8-facet prism & 5-facet linear rotating prism
Housing:	Metal & flame retardant plastic
IP rating:	IP20
DMX control:	via standard DMX-controller
Onboard:	LCD display with gravity sensor
Control:	Stand-alone, Master/Slave, DMX-512
Connections:	Dedicated PowerCON to Schuko & data connector
Max. ambient temperature t_a:	40°C
Max. housing temperature t_B:	80°C
Minimum distance:	
Minimum distance from flammable surfaces:	0,5 m
Minimum distance to lighted object:	23 m

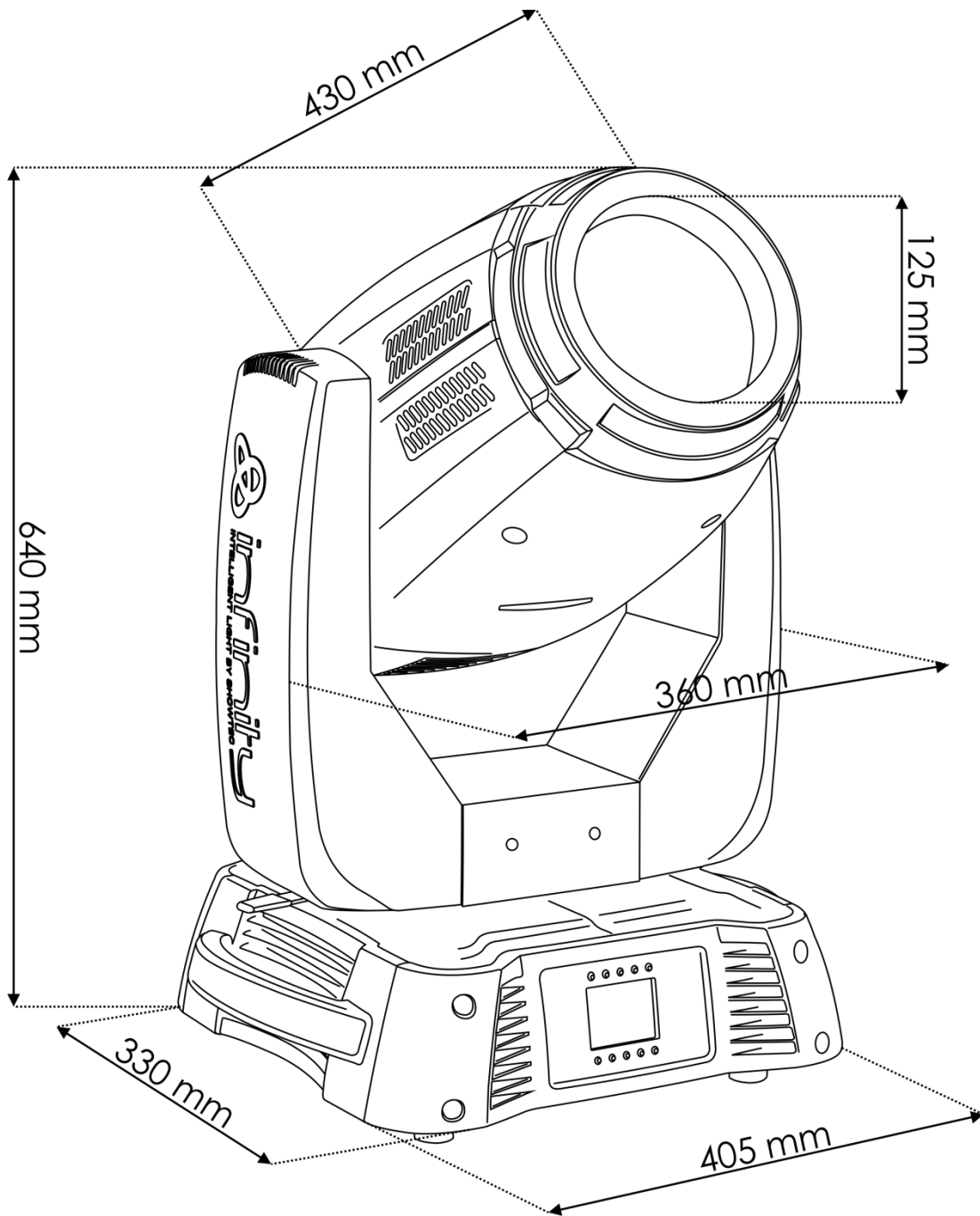*: Versions for other lamps may be produced. Please check the specification label on your product.

Design and product specifications are subject to change without prior notice.

CE

Website: www.highlite.com
Email: service@highlite.com

infinity
INTELLIGENT LIGHT

Dimensions

430 mm

125 mm

640 mm

360 mm

330 mm

405 mm

Notes