infinity
INTELLIGENT LIGHT ®

ENGLISH

Infinity iS-250 V1

Ordercode: 41502

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 iS-250 with PowerCON power cable (1,5 m)
- 2 brackets for truss mounting
- User manual
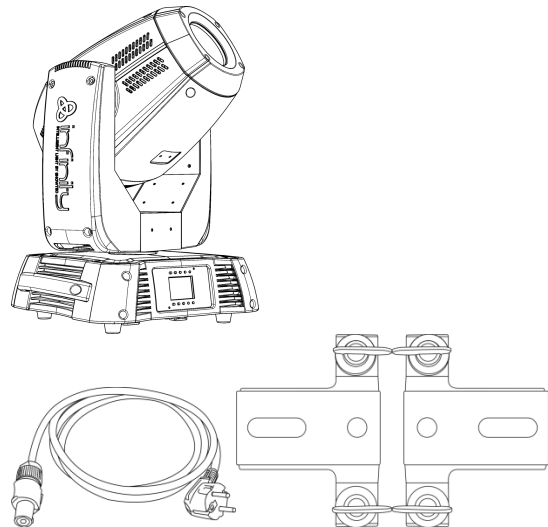
LED Expected Lifespan

LEDs gradually decline in brightness over time. HEAT is the dominant factor that leads to the acceleration of this decline. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal or singular optimum conditions. For this reason when all color LEDs are used at their fullest intensity, life of the LEDs is significantly reduced. If improving your lifespan expectancy is of a higher priority, place care in providing for lower operational temperatures. This may include climatic-environmental and the reduction of overall projection intensity.

> ⚠️ **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 your 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 by holding it at the projector-head, as the mechanics may be damaged. Always hold the fixture at the transport handles.
- Never place any material over the lens.
- Never look directly into the light source.
- Never leave any cables lying around.
- Never unscrew the screws of the rotating gobo, as the ball bearing will otherwise be opened.
- 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 would reduce the device's life.
- Do not touch the device's housing bare-handed during its operation (housing becomes very 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 device indoors, avoid contact with water or other liquids.
- Only operate the fixture after having checked that 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 case closed while operating.
- Always allow 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 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 so that its functions are not impaired due to cracks or deep scratches.
- If device is 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 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 out of 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 Infinity. 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)!!!** ⚠

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 1 meter.
- 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 let the installation be 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.
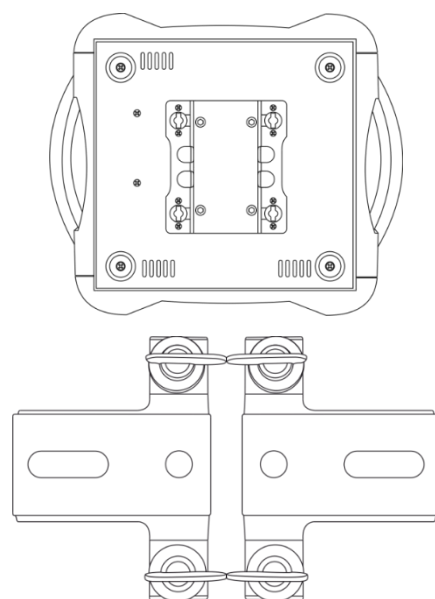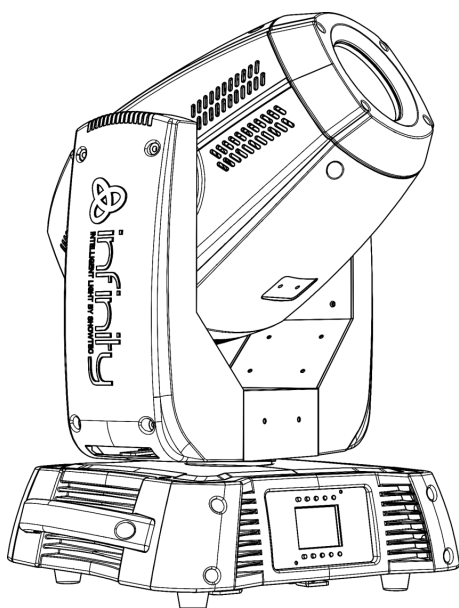
The Infinity can be placed on a flat stage floor or mounted to any kind of truss with a clamp.

Mounting a clamp to the underside of the Infinity moving head

Nylon washer   Self-locking nut
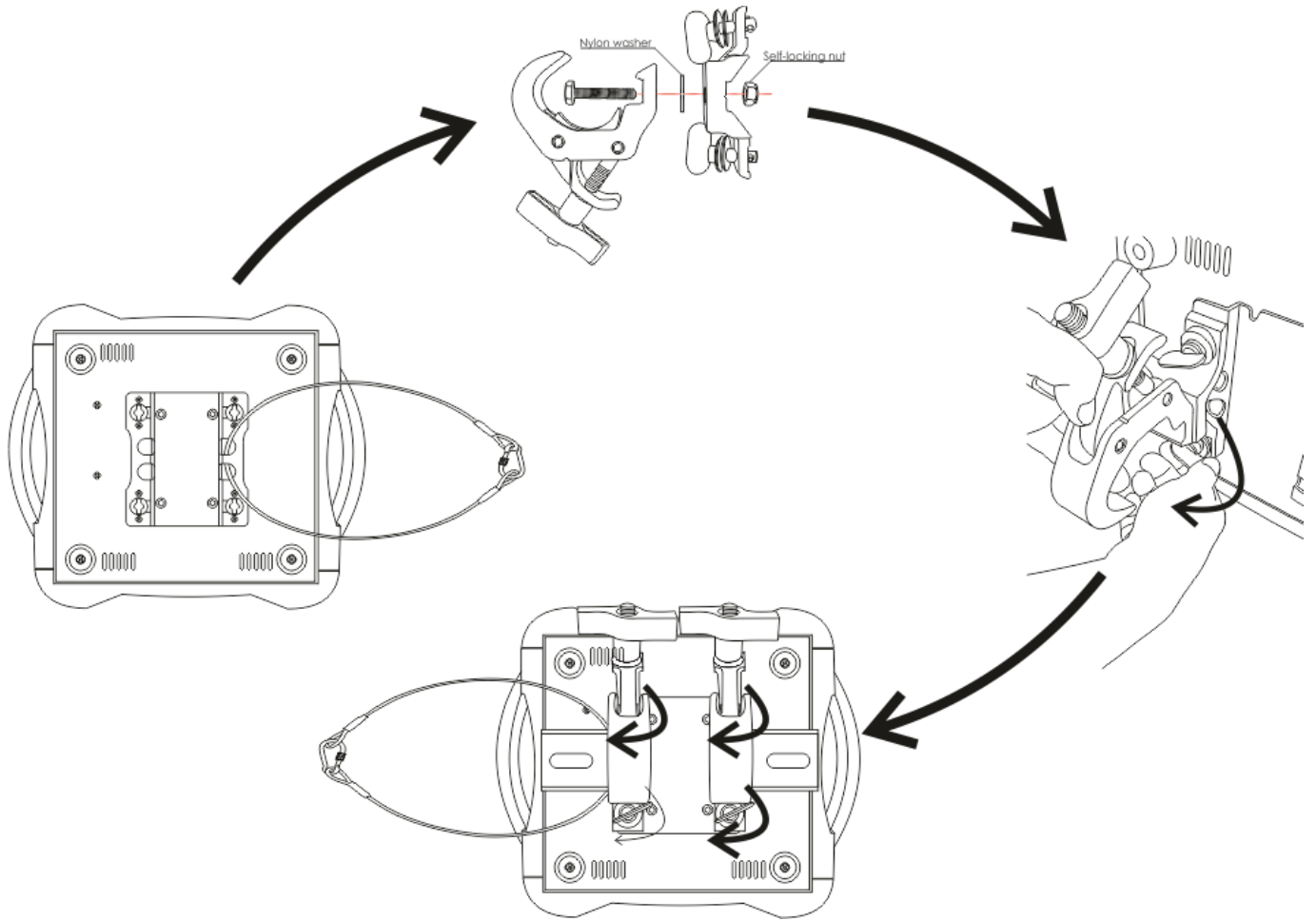
Improper installation can cause serious injuries to people and/or damage of property !

Connection with the mains

Connect the device to the mains with the power-plug.
Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	FASE
N	BLUE	BLACK	SILVER	NULL
⏚	YELLOW/GREEN	GREEN	GREEN	EARTH

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

Improper installation can cause serious damage to people and property!
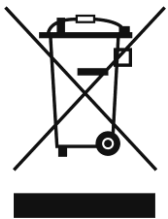
Return Procedure

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.nl 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.

Description of the device

Features
The Infinity iS-250 is a moving head with high output and great effects.

- Input voltage: 100-240V AC, 50/60Hz
- Power consumption: 430W
- Light source: 1 x 250W White LED (LumiEngin)
- Lux @1m: 102400 (12°)
- Beam angle: 12° - 27°
- Onboard: Battery-powered full color display including gravity sensor
- Battery lifetime: max 30 days (full charge)
- Control modes: Built-in programs, Master/Slave, DMX-512
- Control protocol: DMX512
- DMX control: 21, 27 channels
- Wireless DMX: available (optional)
- Dimmer: 0-100%
- Strobe: 0-20Hz
- Focus: Motorized
- Iris: Motorized
- Prism: 3-facet rotating prism
- Pan: 540°
- Tilt: 270°
- Pan/Tilt resolution: 16 bit
- Special: Pan/ Tilt, Color, Gobo change blackout, User-selectable Pan & Tilt ranges, 540°/360°/180°, Reverse Pan / Tilt movement
- Rotating gobo wheel: 1 glass + 1 plastic + 5 metal gobos (replaceable)
- Gobo size:　Glass gobo: 27,7 mm (gobo size); 21 mm (image diameter); 1 mm (gobo thickness)
  　　　　　　Plastic gobo: 26,7 mm (gobo size); 21 mm (image diameter); 2,4 mm (gobo thickness)
  　　　　　　Metal gobo: 28,9 mm (gobo size); 21 mm (image diameter); 0,5 mm (gobo thickness)
- Static gobo wheel: 8 metal gobos
- Gobo functions: Gobo-flow effect, gobo shake
- Rotation: Bi-directional
- Color wheel 1: 7 dichroic-filters + white
- Color wheel 2: 7 dichroic-filters + white
- Color functions: Split colors, Rainbow-flow effect
- Color: Black
- Housing: Metal & flame-retardant plastic
- Connection: 3-pin/5-pin XLR data IN/OUT, PowerCON IN/OUT
- Fuse: F7AL/250V
- Dimensions: 346 x 417 x 582 mm (LxWxH)
- Weight: 25,4 kg

Optional accessories
MOD41502 – Wireless DMX upgrade kit

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

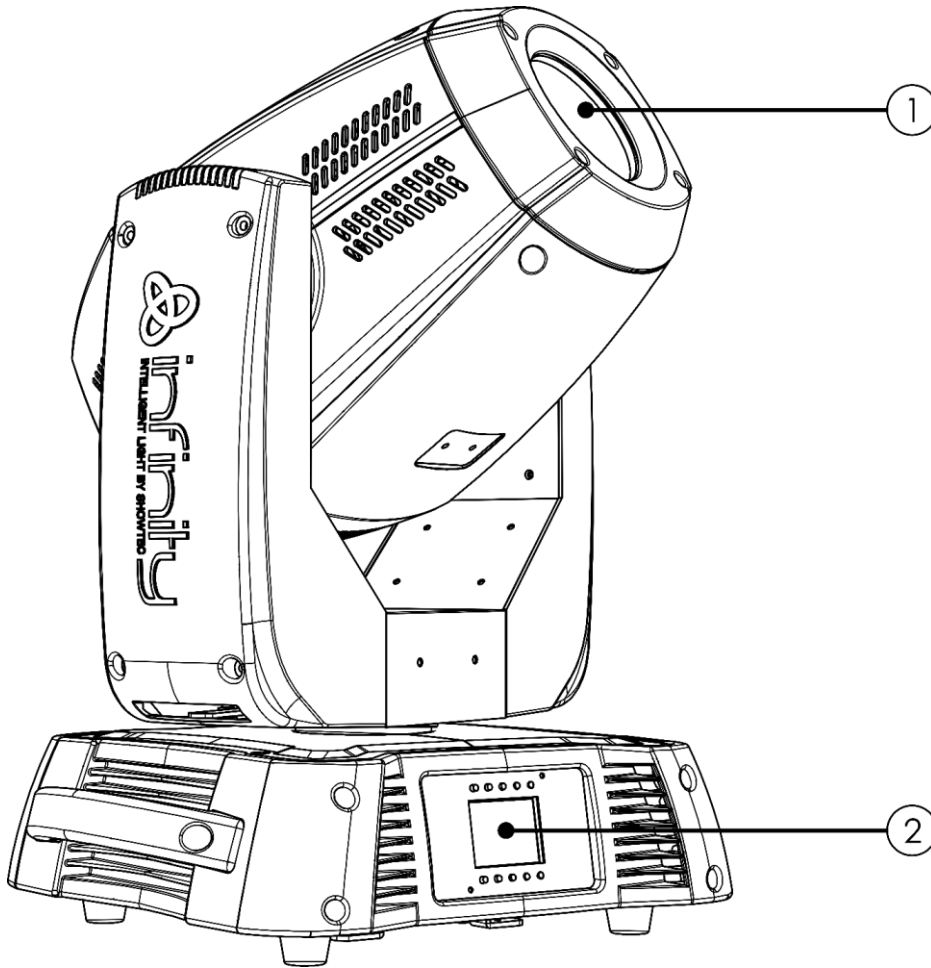**Frontside**

Fig. 01
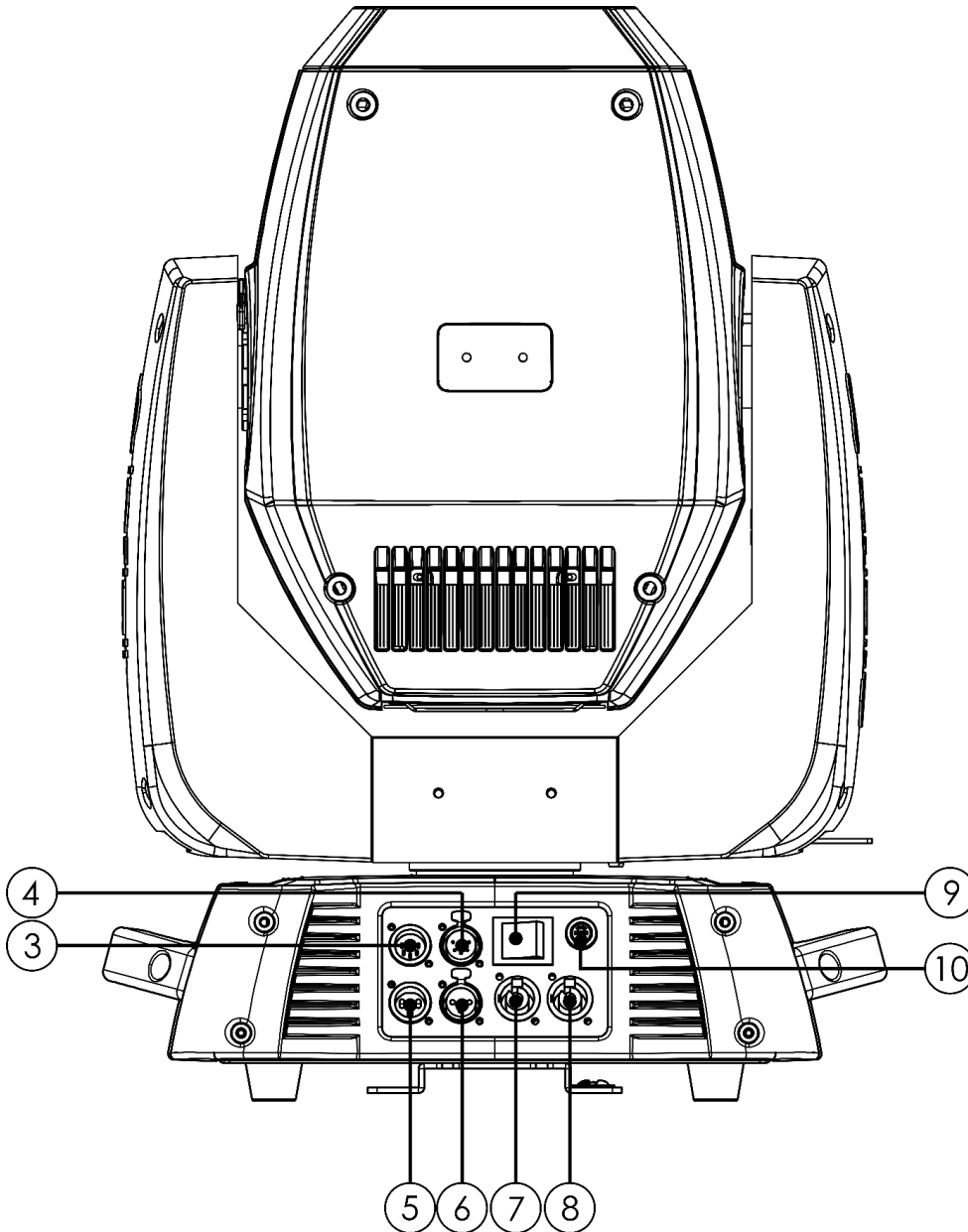
01) Lens
02) LCD display + control buttons

Backside

Fig. 02

03) 5-pin DMX signal connector IN
04) 5-pin DMX signal connector OUT
05) 3-pin DMX signal connector IN
06) 3-pin DMX signal connector OUT
07) 100-240V Neutrik PowerCON IN
08) 100-240V Neutrik PowerCON OUT
09) Power switch ON/OFF
10) Fuse F7AL 250V

NOTE: Knowledge of DMX is required to fully utilize this unit.

Installation

Remove all packing materials from the Infinity iS-250. Check that 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.

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.

Control Modes

There are 3 modes:
- Stand-alone (built-in programs)
- Master/Slave
- DMX512 (21CH, 27CH)

One Infinity (Built-in Programs)

01) Fasten the effect light onto firm trussing. Leave at least 1 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Plug the end of the electric mains power cord into a proper electric power supply socket.
04) When the Infinity is not connected by a DMX cable, it functions as a stand-alone device.
05) Please see page 18 for more information about the built-in programs.

Multiple Infinitys (Master/Slave control)

01) Fasten the effect light onto firm trussing. Leave at least 1 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Plug the end of the electric mains power cord into a proper electric power supply socket.
04) Use a 3-pin/5-pin XLR cable to connect the Infinity.

The pins:

1. Earth
2. Signal (-)
3. Signal (+)

05) Link the units as shown in fig. 03. Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units. You can use the same functions on the master device as described on page 18 (Built-in programs). 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.

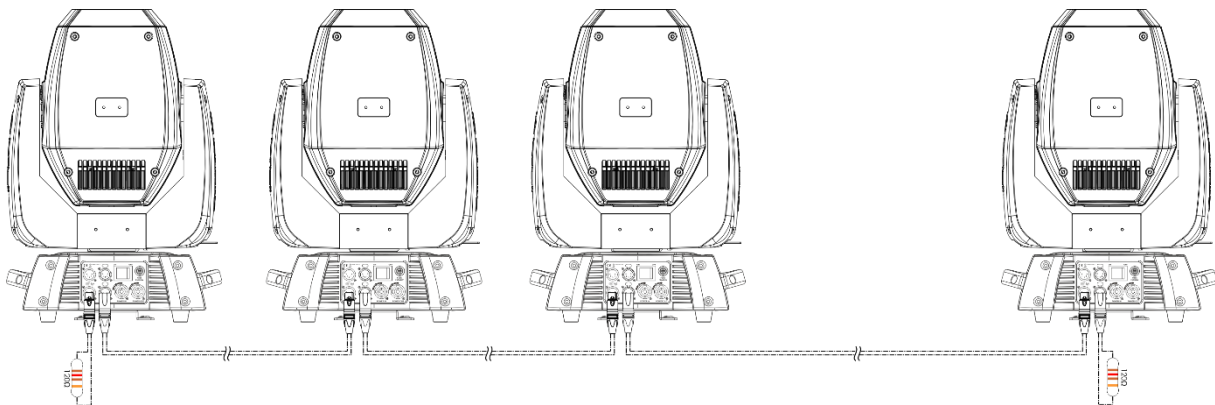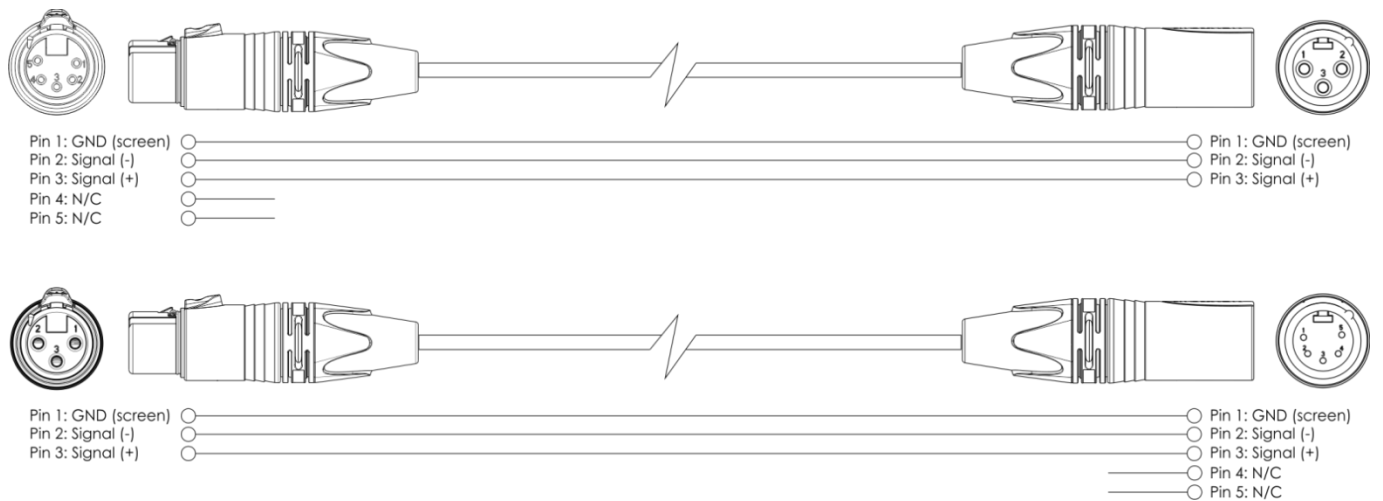### Multiple Infinitys (Master/Slave control)

Fig. 03

Multiple Infinitys (DMX Control)
01) Fasten the effect light onto firm trussing. Leave at least 1 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Plug the end of the electric mains power cord into a proper electric power supply socket.
04) Use a 3-pin/5-pin XLR cable to connect the Infinitys and other devices.

Pin 1: GND (screen)	Pin 1: GND (screen)
Pin 2: Signal (-)	Pin 2: Signal (-)
Pin 3: Signal (+)	Pin 3: Signal (+)
Pin 4: N/C	
Pin 5: N/C	

Pin 1: GND (screen)	Pin 1: GND (screen)
Pin 2: Signal (-)	Pin 2: Signal (-)
Pin 3: Signal (+)	Pin 3: Signal (+)
	Pin 4: N/C
	Pin 5: N/C

05) Link the units as shown in fig. 04. Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units.
06) 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.
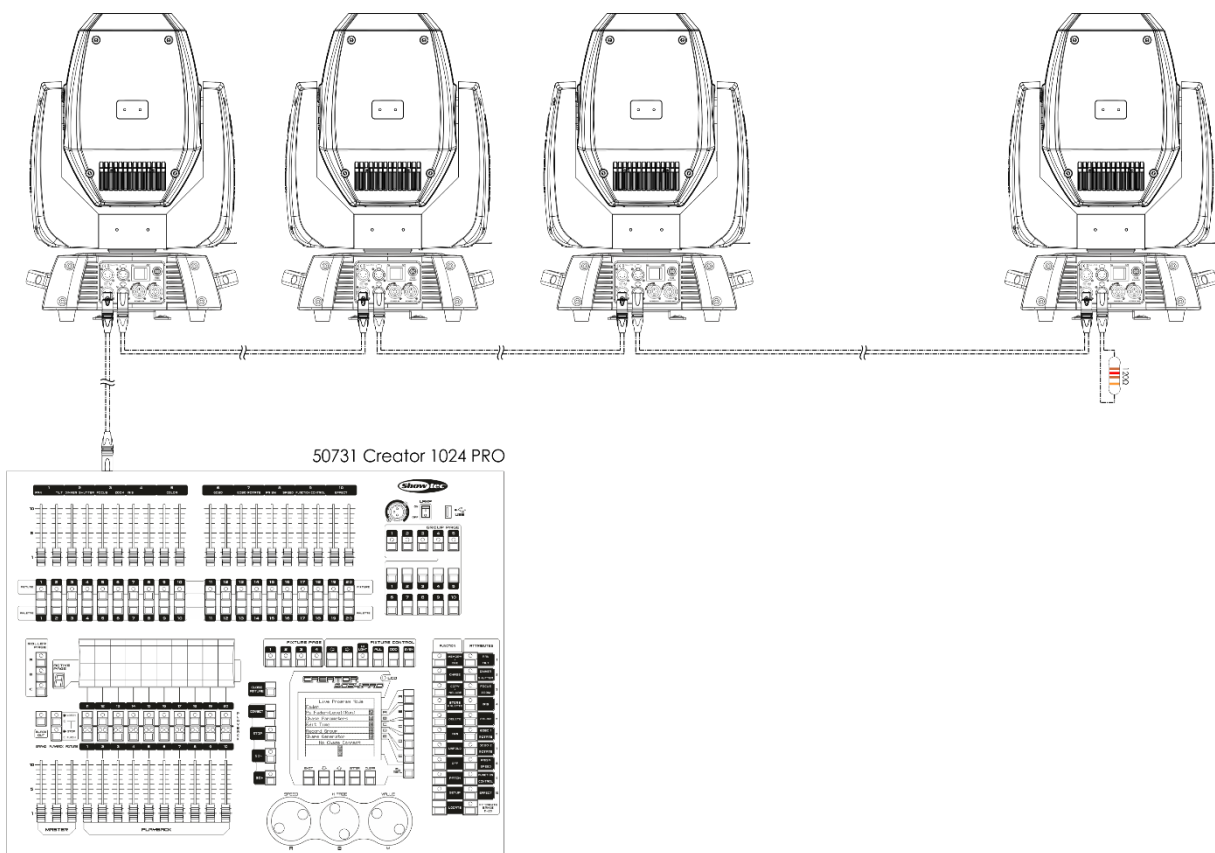
Multiple Infinitys DMX Set Up

50731 Creator 1024 PRO

Fig. 04

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 on 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 one 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 fixtures on a power link @120V: 2 fixtures
Maximum recommended number of fixtures on a power link @230V: 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 Certified 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).

The Infinity iS-250 can be operated with a controller in **control mode** or without the controller in **stand-alone mode**.

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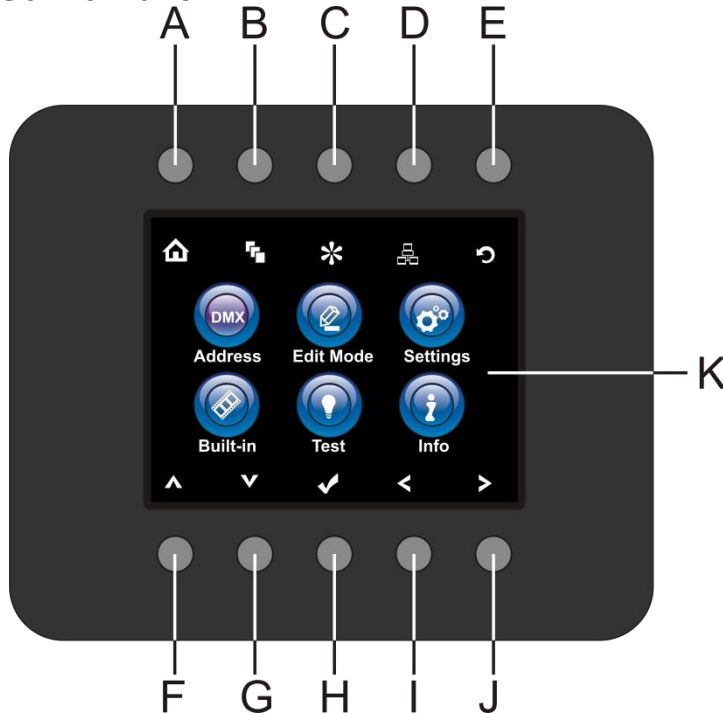
A)	Home button
B)	Edit Menu button
C)	Settings Mode button
D)	Address Setting button
E)	Infinity Logo button
F)	Up button
G)	Down button
H)	OK/ENTER
I)	Left button
J)	Right button
K)	LCD display

Fig. 05

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 **27** channels.
When using multiple Infinity's, 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+27=28 (028)**; the DMX address of the third Infinity should be **28+27=55 (055)**, etc.
Please, be sure that you do not have any overlapping channels in order to control each Infinity correctly.
If two or more Infinity's are addressed similarly, they will work similarly. For address settings, please refer to the instructions under "Addressing'.

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 any of the buttons on the control panel.
Once you have pressed the button, the display will light up.
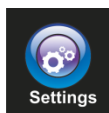
Menu Overview

Address →

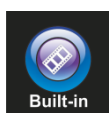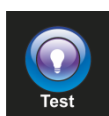**Address Setting**
001

Edit Mode →

Edit Mode
DMX MODE 21(CH)	NO
DMX MODE 27(CH)	YES
MASTER MODE	NO

→ Life time reset
Time counter	00018
Total life time	00018
Set password	

→ Password
Old password	00000
New password	00000
Confirm new password	00000

Settings →

Settings
Pan Reverse	YES
Tilt Reverse	NO
Zoom Reverse	NO
Screen Reverse	NO
Auto Screen.Re	NO
Pan Angle	540
Tilt Angle	270
BL.O.P/T Move	NO
BL.O.Color Move	NO
BL.O.Gobo Move	NO
Wireless Enable	NO
Wireless Unlink	NO
Fans	Auto
Dimmer Curve	SCurve
Life Time	
Reset Function	
Factory Settings	

→ Reset Function
Pan/Tilt	
Iris/Prism	
Color	
Gobo/Gobo.Rot	
Frost	
All	

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

Test →

Test Settings
| Auto Test |
| Manual Test |

→ Auto Test

Auto Test...

→ Manual Test
Pan	000
Tilt	000
Pan Fine	000
Tilt Fine	000
P/T Speed	000
Dimmer	000
Dimmer Fine	000
Shutter	000
Color 1	000
Color 2	000
Gobo	000
Gobo Rotate	000
Gobo 2	000
Focus	000
Focus Fine	000
Focus Auto	000
Zoom	000
Zoom Fine	000

Manual Test
Prism	000
Prism Rotate	000
Iris	000
Iris Fine	000
Iris Macro	000
Frost	000
Special Function	000

Info →

System Information
Ver	V4.0
Running Mode	DMX
DMX Address	001
Temperature	030
Total life time	00018
Time counter	00018
UID:	29B4A3040008

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

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) Press the ✔ button, to confirm. You can choose from 512 different DMX addresses.
Press the ◀ ▶ and/or ∧ ∨ buttons to select the required address from **001** Up/Down **512**.

03) Once you have set the desired DMX address, press the ✔ button to store.

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 from 3 different modes.

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

DMX MODE 21(CH)	NO
DMX MODE 27(CH)	YES
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 or press the [<] [>] [∧] [∨] buttons to select [Settings] .

02) Press the [✔] button, to enter the menu. You can choose from 17 different modes.

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

⌂	⬛	✳	⬚	↺
		Life time reset		
Time counter			00018	
Total life time			00018	
Set password				

⌂	⬛	✳	⬚	↺
		Password		
Old password			00000	
New password			00000	
Confirm new password			00000	

⌂	⬛	✳	⬚	↺
		Settings		
Pan Reverse			YES	
Tilt Reverse			NO	
Zoom Reverse			NO	
Screen Reverse			NO	
Auto Screen.Re			NO	
Pan Angle			540	
Tilt Angle			270	
BL.O.P/T Move			NO	
BL.O.Color Move			NO	
BL.O.Gobo Move			NO	
Wireless Enable			NO	
Wireless Unlink			NO	
Fans			Auto	
Dimmer Curve			SCurve	
Life Time				
Reset Function				
Factory Settings				

⌂	⬛	✳	⬚	↺
		Reset Function		
Pan/Tilt				
Iris/Prism				
Color				
Gobo/Gobo.Rot				
Frost				
All				

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04) Once you have selected the desired mode, press the ✔ button to proceed to edition.

05) Press the < > buttons to change the value from NO to YES.

06) Some of the available menus have different options to the regular YES or NO function:

Pan Angle: 540°, 360°, 180°
Tilt Angle: 270°, 180°, 90°
Fans: Auto, Silent, Full
Dimmer Curve: SCurve, I Square, Square, Linear

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 choice selection.

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:
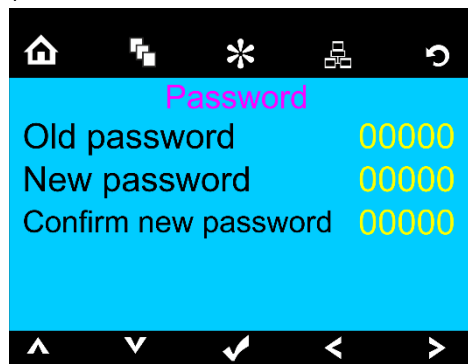
03) Press the < > buttons to select the digit which you want to edit.

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

05) Press the ✔ button to confirm.

3.2. 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 2 options:
- Pan/Tilt (reset Pan/Tilt)
- Iris/Prism (reset iris/prism)
- Color (reset colors)
- Gobo/Gobo.Rot (reset gobos)
- Frost (reset frost effect)
- All (restore default settings)

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

04) Press the ⋖ ⋗ buttons to choose between YES or NO.

05) Press the ✔ button to confirm your choice.

3.3. Factory Settings
With this menu you can perform a complete reset of the device's settings.

01) In Settings menu, press the ⋀ ⋁ buttons to select Factory Settings and press the ✔ button to open the menu.

02) Press the ⋖ ⋗ buttons to choose either YES or NO.

03) Press the ✔ button to confirm.

4. Built-in Programs
With this menu you can set your desired built-in program.

01) Press the ⌂ 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.

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
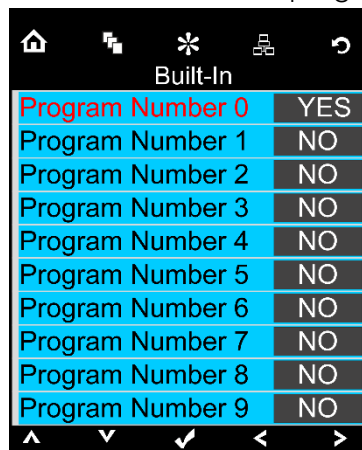
04) Press the ✔ button to confirm your choice.

05) Press the ⋖ ⋗ buttons to choose either YES or NO and press the ✔ button to confirm your choice.

06) The device will now run the chosen built-in program.

5. Test Menu
With this menu you can test the device's functions.

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 Settings
Auto Test
Manual Test

Auto Test

Auto Test...

Manual Test	
Pan	000
Tilt	000
Pan Fine	000
Tilt Fine	000
P/T Speed	000
Dimmer	000
Dimmer Fine	000
Shutter	000
Color 1	000
Color 2	000
Gobo	000
Gobo Rotate	000
Gobo 2	000
Focus	000
Focus Fine	000
Focus Auto	000
Zoom	000
Zoom Fine	000

Manual Test	
Prism	000
Prism Rotate	000
Iris	000
Iris Fine	000
Iris Macro	000
Frost	000
Special Function	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 < > buttons to change the values from 0 to 255.

08) Once you have adjusted the desired setting, press the ✔ button to store changes.

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 display will show:

⌂	▚	✳	⬓	↺

System Information

Ver	V4.0
Running Mode	DMX
DMX Address	001
Temperature	030
Total life time	00018
Time counter	00018
UID:	29B4A3040008

∧	∨	✔	<	>
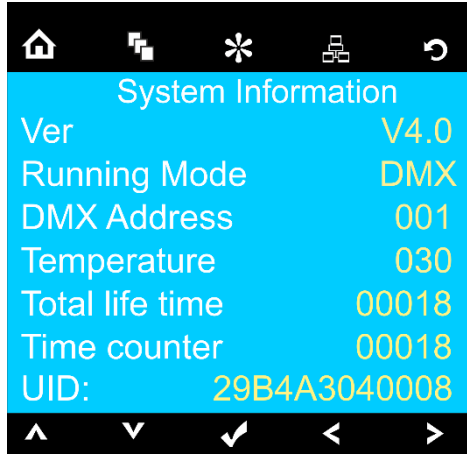
04) You can now view the device's current software version, current active mode, current DMX starting address, device's temperature, total life time counter, time counter and the UID number.

DMX Channels

27 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 – Dimmer

0-255	Dimmer intensity, from dark to brightest

Channel 7 – Dimmer fine

0-255	Dimmer intensity, from dark to brightest

Channel 8 – Shutter/Strobe ⚠ Dimmer must be open ⚠

0-7	Shutter closed
8-15	Shutter open
16-131	Synchronized strobe, from low to high frequency
132-167	Fast off/slow on, from low to high frequency
168-203	Slow off/fast on, from low to high frequency
204-239	Pulse strobe, from low to high frequency
240-250	Random strobe, from low to high frequency
251-255	Shutter open

Channel 9 – Color wheel 1 ⚠ Dimmer and shutter must be open ⚠

0-6	Open/White
7-13	Color 1
14-20	Color 2
21-27	Color 3
28-34	Color 4
35-41	Color 5
42-48	Color 6
49-59	Color 7
60-187	Split colors (gradual color wheel adjustment)
188-219	Counterclockwise rotation, from slow to fast
220-223	Stop
224-255	Clockwise rotation, from slow to fast

Channel 10 – Color wheel 2 ⚠ Dimmer and shutter must be open ⚠

0-6	Open/White
7-13	Color 1 (½ CTO)
14-20	Color 2 (Full CTO)
21-27	Color 3
28-34	Color 4
35-41	Color 5
42-48	Color 6
49-59	Color 7
60-187	Split colors (gradual color wheel adjustment)
188-219	Counterclockwise rotation, from slow to fast
220-223	Stop
224-255	Clockwise rotation, from slow to fast

Channel 11 – Rotating gobo wheel + gobo shake ⚠ Dimmer and shutter must be open ⚠

0-7	Open / White
8-15	Gobo 1
16-23	Gobo 2
24-31	Gobo 3
32-39	Gobo 4
40-47	Gobo 5
48-55	Gobo 6
56-63	Gobo 7
64-71	Gobo 7 shake effect, from slow to fast
72-79	Gobo 6 shake effect, from slow to fast
80-87	Gobo 5 shake effect, from slow to fast
88-95	Gobo 4 shake effect, from slow to fast
96-103	Gobo 3 shake effect, from slow to fast
104-111	Gobo 2 shake effect, from slow to fast
112-119	Gobo 1 shake effect, from slow to fast
120-127	Open / White
128-191	Counterclockwise rotation rainbow effect, from slow to fast
192-255	Clockwise rotation rainbow effect, from slow to fast

Channel 12 – Gobo rotation ⚠ Dimmer and shutter must be open, CH11 must be set between 8-63 ⚠

0-63	Gobo indexing
64-147	Clockwise rotation, from slow to fast
148-231	Counterclockwise rotation, from slow to fast
232-255	Gobo wheel bounce effect, from small to big amplitude

Channel 13 – Static gobo wheel + gobo shake ⚠ Dimmer and shutter must be open ⚠

0-6	Open / White
7-13	Gobo 1
14-20	Gobo 2
21-27	Gobo 3
28-34	Gobo 4
35-41	Gobo 5
42-48	Gobo 6
49-55	Gobo 7
56-63	Gobo 8
64-71	Gobo 8 shake effect, from slow to fast
72-78	Gobo 7 shake effect, from slow to fast
79-85	Gobo 6 shake effect, from slow to fast
86-92	Gobo 5 shake effect, from slow to fast
93-99	Gobo 4 shake effect, from slow to fast
100-106	Gobo 3 shake effect, from slow to fast
107-113	Gobo 2 shake effect, from slow to fast
114-120	Gobo 1 shake effect, from slow to fast
121-127	Open / White
128-191	Counterclockwise rotation rainbow effect, from slow to fast
192-255	Clockwise rotation rainbow effect, from slow to fast

Channel 14 – Focus ⚠ Dimmer and shutter must be open ⚠

0-255	Continuous adjustment

Channel 15 – Focus fine ⚠ Dimmer and shutter must be open ⚠

0-255	Fine adjustment

Channel 16 – Auto Focus ⚠ Dimmer and shutter must be open ⚠

0	Not functional
1-36	Auto focus (5 m) rotating gobo wheel
37-73	Auto focus (10 m) rotating gobo wheel
74-110	Auto focus (15 m) rotating gobo wheel
111-127	Auto focus rotating gobo wheel
128-164	Auto focus (5 m) static gobo wheel
165-201	Auto focus (10 m) static gobo wheel
202-238	Auto focus (15 m) static gobo wheel
239-255	Auto focus static gobo wheel

Channel 17 – Zoom ⚠ Dimmer and shutter must be open ⚠

0-255	Gradual adjustment, from big to small

Channel 18 – Zoom fine ⚠ Dimmer and shutter must be open ⚠

0-255	Fine adjustment, from big to small

Channel 19 – 3-facet prism ⚠ Dimmer and shutter must be open ⚠

0-4	Not functional
5-255	3-facet prism ON

Channel 20 – Prism rotation ⚠ **Dimmer and shutter must be open and CH19 set between 5-255** ⚠

0-127	Prism indexing
128-189	Clockwise rotation, from fast to slow
190-193	Not functional
194-255	Counterclockwise rotation, from slow to fast

Channel 21 – Iris ⚠ **Dimmer and shutter must be open** ⚠

0-255	Gradual adjustment, from open to closed

Channel 22 – Iris fine ⚠ **Dimmer and shutter must be open** ⚠

0-255	Fine adjustment

Channel 23 – Iris functions ⚠ **CH21, Dimmer and shutter must be open** ⚠

0-63	Not functional
64-127	Open/close effect, from slow to fast
128-191	Slow open/fast close effect, from slow to fast
192-255	Fast open/slow close effect, from slow to fast

Channel 24 – Frost ⚠ **Dimmer and shutter must be open** ⚠

0-4	Not functional
5-255	Frost effect, from 0-100%

Channel 25 – Functions

0-7	Not functional
8-15	Blackout during Pan/Tilt movement
16-23	Blackout during color wheel movement
24-31	Blackout during gobo wheel movement
32-39	Blackout during Pan/Tilt/color wheel movement
40-47	Blackout during Pan/Tilt/gobo wheel movement
48-55	Blackout during Pan/Tilt/color wheel movement/gobo wheel movement
56-87	Not functional
88-95	Not functional
96-103	Reset pan
104-111	Reset tilt
112-119	Reset color wheel
120-127	Gobo wheel reset
128-135	Not functional
136-143	Reset prism
144-151	Not functional
152-159	Reset all channels
160-167	Reset iris
168-175	Reset frost
176-255	Not functional

Channel 26 – Built-in programs ⚠ **Dimmer and shutter must be open** ⚠

0-7	Not functional
8-15	Built-in program 1
16-23	Built-in program 2
24-31	Built-in program 3
32-39	Built-in program 4
40-47	Built-in program 5
48-55	Built-in program 6
56-63	Built-in program 7
64-71	Built-in program 8

72-79	Built-in program 9
80-87	Built-in program 10
88-95	Built-in program 11
96-103	Built-in program 12
104-111	Built-in program 13
112-119	Built-in program 14
120-127	Built-in program 15
128-135	Built-in program 16
136-143	Built-in program 17
144-151	Built-in program 18
152-159	Built-in program 19
160-167	Built-in program 20
168-175	Built-in program 21
176-183	Built-in program 22
184-191	Built-in program 23
192-199	Built-in program 24
200-207	Built-in program 25
208-215	Built-in program 26
216-223	Built-in program 27
224-231	Built-in program 28
232-239	Built-in program 29
240-247	Built-in program 30
248-255	Built-in program 31

Channel 27 – Built-in program speed ⚠️ **CH26 must be set between 8-255** ⚠️

0-255	Program speed adjustment, from fast to slow

21 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 – Dimmer

0-255	Dimmer intensity, from dark to brightest

Channel 7 – Shutter/Strobe ⚠ Dimmer must be open ⚠

0-7	Shutter closed
8-15	Shutter open
16-131	Synchronized strobe, from low to high frequency
132-167	Fast off/slow on, from low to high frequency
168-203	Slow off/fast on, from low to high frequency
204-239	Pulse strobe, from low to high frequency
240-250	Random strobe, from low to high frequency
251-255	Shutter open

Channel 8 – Color wheel 1 ⚠ Dimmer and shutter must be open ⚠

0-6	Open/White
7-13	Color 1
14-20	Color 2
21-27	Color 3
28-34	Color 4
35-41	Color 5
42-48	Color 6
49-59	Color 7
60-187	Split colors (gradual color wheel adjustment)
188-219	Counterclockwise rotation, from slow to fast
220-223	Stop
224-255	Clockwise rotation, from slow to fast

Channel 9 – Color wheel 2 ⚠ Dimmer and shutter must be open ⚠

0-6	Open/White
7-13	Color 1 (½ CTO)
14-20	Color 2 (Full CTO)
21-27	Color 3
28-34	Color 4
35-41	Color 5
42-48	Color 6
49-59	Color 7
60-187	Split colors (gradual color wheel adjustment)
188-219	Counterclockwise rotation, from slow to fast
220-223	Stop
224-255	Clockwise rotation, from slow to fast

Channel 10 – Rotating gobo wheel + gobo shake ⚠ Dimmer and shutter must be open ⚠

0-7	Open / White
8-15	Gobo 1
16-23	Gobo 2
24-31	Gobo 3
32-39	Gobo 4
40-47	Gobo 5
48-55	Gobo 6
56-63	Gobo 7
64-71	Gobo 7 shake effect, from slow to fast
72-79	Gobo 6 shake effect, from slow to fast
80-87	Gobo 5 shake effect, from slow to fast
88-95	Gobo 4 shake effect, from slow to fast
96-103	Gobo 3 shake effect, from slow to fast
104-111	Gobo 2 shake effect, from slow to fast
112-119	Gobo 1 shake effect, from slow to fast
120-127	Open / White
128-191	Counterclockwise rotation rainbow effect, from slow to fast
192-255	Clockwise rotation rainbow effect, from slow to fast

Channel 11 – Gobo rotation ⚠ Dimmer and shutter must be open, CH10 must be set between 8-63 ⚠

0-63	Gobo indexing
64-147	Clockwise rotation, from slow to fast
148-231	Counterclockwise rotation, from slow to fast
232-255	Gobo wheel bounce effect, from small to big amplitude

Channel 12 – Static gobo wheel + gobo shake ⚠ Dimmer and shutter must be open ⚠

0-6	Open / White
7-13	Gobo 1
14-20	Gobo 2
21-27	Gobo 3
28-34	Gobo 4
35-41	Gobo 5
42-48	Gobo 6
49-55	Gobo 7
56-63	Gobo 8
64-71	Gobo 8 shake effect, from slow to fast
72-78	Gobo 7 shake effect, from slow to fast
79-85	Gobo 6 shake effect, from slow to fast
86-92	Gobo 5 shake effect, from slow to fast
93-99	Gobo 4 shake effect, from slow to fast
100-106	Gobo 3 shake effect, from slow to fast
107-113	Gobo 2 shake effect, from slow to fast
114-120	Gobo 1 shake effect, from slow to fast
121-127	Open / White
128-191	Counterclockwise rotation rainbow effect, from slow to fast
192-255	Clockwise rotation rainbow effect, from slow to fast

Channel 13 – Focus ⚠ Dimmer and shutter must be open ⚠

0-255	Continuous adjustment

Channel 14 – Auto Focus ⚠ Dimmer and shutter must be open ⚠

0	Not functional
1-36	Auto focus (5 m) rotating gobo wheel
37-73	Auto focus (10 m) rotating gobo wheel
74-110	Auto focus (15 m) rotating gobo wheel
111-127	Auto focus rotating gobo wheel
128-164	Auto focus (5 m) static gobo wheel
165-201	Auto focus (10 m) static gobo wheel
202-238	Auto focus (15 m) static gobo wheel
239-255	Auto focus static gobo wheel

Channel 15 – Zoom ⚠ Dimmer and shutter must be open ⚠

0-255	Gradual adjustment, from big to small

Channel 16 – 3-facet prism ⚠ Dimmer and shutter must be open ⚠

0-4	Not functional
5-255	3-facet prism ON

Channel 17 – Prism rotation ⚠ Dimmer and shutter must be open and CH16 set between 5-255 ⚠

0-127	Prism indexing
128-189	Clockwise rotation, from fast to slow
190-193	Not functional
194-255	Counterclockwise rotation, from slow to fast

Channel 18 – Iris ⚠ Dimmer and shutter must be open ⚠

0-255	Gradual adjustment, from open to closed

Channel 19 – Iris functions ⚠ CH18, Dimmer and shutter must be open ⚠

0-63	Not functional
64-127	Open/close effect, from slow to fast
128-191	Slow open/fast close effect, from slow to fast
192-255	Fast open/slow close effect, from slow to fast

Channel 20 – Frost ⚠ Dimmer and shutter must be open ⚠

0-4	Not functional
5-255	Frost effect, from 0-100%

Channel 21 – Functions

0-7	Not functional
8-15	Blackout during Pan/Tilt movement
16-23	Blackout during color wheel movement
24-31	Blackout during gobo wheel movement
32-39	Blackout during Pan/Tilt/color wheel movement
40-47	Blackout during Pan/Tilt/gobo wheel movement
48-55	Blackout during Pan/Tilt/color wheel movement/gobo wheel movement
56-87	Not functional
88-95	Not functional
96-103	Reset pan
104-111	Reset tilt
112-119	Reset color wheel
120-127	Gobo wheel reset
128-135	Not functional
136-143	Reset prism
144-151	Not functional
152-159	Reset all channels
160-167	Reset iris
168-175	Reset frost
176-255	Not functional

Channel settings

41502 Infinity IS-250 Fixture-settings

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

Channel 1 – Pan: 255 (540°), 128, 0 (0°)
Channel 2 – Tilt: 255 (270°), 128, 0 (0°)
Channel 3 – Pan-Fine: 255, 0
Channel 4 – Tilt-Fine: 255, 0
Channel 5 – Pan/Tilt Speed: 255 Slow, 0 Fast
Channel 6 – Dimmer: 255, 0
Channel 7 – Dimmer 16-bit: 255, 0

Channel 8 – Shutter Strobe:
- 255 Shutter open
- 251
- 250 Fast — Random strobe
- 240 Slow
- 239 Fast — Pulse strobe
- 204 Slow
- 203 Fast — Slow off Fast on
- 168 Slow
- 167 Fast — Fast off Slow on
- 132 Slow
- 131 Fast — Synchronized Strobe
- 16 Slow
- 15 Shutter open
- 8
- 7 Shutter closed
- 0

Channel 9 – Color wheel 1:
- 224-255
- 220-223 Stop
- 188-219
- 60-187 Split colors
- 49-59 Color 7
- 42-48 Color 6
- 35-41 Color 5
- 28-34 Color 4
- 21-27 Color 3
- 14-20 Color 2
- 7-13 Color 1
- 0-6 White

Channel 10 – Color wheel 2:
- 224-255
- 220-223 Stop
- 188-219
- 60-187 Split colors
- 49-59 Color 7
- 42-48 Color 6
- 35-41 Color 5
- 28-34 Color 4
- 21-27 Color 3
- 14-20 Color 2
- 7-13 Color 1
- 0-6 White

Channel 11 – Rotating Gobo wheel:
- 192-255
- 128-191
- 120-127
- 112-119
- 104-111
- 96-103
- 88-95
- 80-87
- 72-79
- 64-71
- 56-63
- 48-55
- 40-47
- 32-39
- 24-31
- 16-23
- 8-15
- 0-7

Channel 12 – Gobo Rotation:
- 255 Gobo Bounce
- 232/231 Fast
- Slow
- 148/147 Fast
- Slow
- 64/63 Gobo rotate Index
- 0

Channel 13 – Static Gobo wheel:
- 192-255
- 128-191
- 121-127
- 114-120
- 107-113
- 100-106
- 93-99
- 86-92
- 79-85
- 72-78
- 64-71
- 56-63
- 49-55
- 42-48
- 35-41
- 28-34
- 21-27
- 14-20
- 7-13
- 0-6

Channel 14 – Focus: 255 Far, 127, 0 Near

41502 Infinity IS-250 Fixture-settings

15	16	17	18	19	20	21	22	23	24	25	26	27
Focus 16-bit	Auto Focus	Zoom	Zoom 16-bit	Prism	Prism Rotation	Iris	Iris 16-bit	Iris Functions	Frost	Functions	Built-in Programs	Program Speed

Channel 15 – Focus 16-bit: 255 Far, 127, 0 Near

Channel 16 – Auto Focus:
- 239-255 Auto focus static gobo wheel
- 202-238 Auto focus (15 m) static gobo wheel
- 165-201 Auto focus (10 m) static gobo wheel
- 128-164 Auto focus (5 m) static gobo wheel
- 111-127 Auto focus rotating gobo wheel
- 74-110 Auto focus (15 m) rotating gobo wheel
- 37-73 Auto focus (10 m) rotating gobo wheel
- 1-36 Auto focus (5 m) rotating gobo wheel
- 0 No Function

Channel 17 – Zoom: 255 - Small, 0 - Big

Channel 18 – Zoom 16-bit: 255 - Small, 0 - Big

Channel 19 – Prism: 255, 5, 4 Open, 0

Channel 20 – Prism Rotation:
- 255 Fast
- 194 Slow
- 193 Stop
- 190 Slow
- 189 Slow
- Positive
- 128 Fast
- 127 Fast
- Prism rotate Index
- 0

Channel 21 – Iris: 255 Closed, 0 Open

Channel 22 – Iris 16-bit: 255 Closed, 0 Open

Channel 23 – Iris Functions:
- 255 Fast — Fast open Slow close
- 192 Slow
- 191
- Slow open Fast close
- 128
- 127 Fast
- Open/close effect
- 64 Slow
- 0-63 No Function

Channel 24 – Frost: 255 Frost Effect, 5, 4 No Fucntion, 0

Channel 25 – Functions:
- 176-255 No Function
- 168-175 Reset Frost Effect
- 160-167 Reset Iris
- 152-159 Reset All Channels
- 144-151 No Function
- 136-143 Reset Prism
- 128-135 No Function
- 120-127 Reset Gobo wheel
- 112-119 Reset Color wheel
- 104-111 Reset Tilt
- 96-103 Reset Pan
- 88-95 No Function
- 56-87 No Function
- 48-55 Blackout during Pan/Tilt/Color wheel/Gobo wheel
- 40-47 Blackout during Pan/Tilt/Gobo wheel
- 32-39 Blackout during Pan/Tilt/Color wheel
- 24-31 Blackout during Gobo wheel movement
- 16-23 Blackout during Color wheel movement
- 8-15 Blackout during Pan/Tilt
- 0-7 No Function

Channel 26 – Built-in Programs:
- 248-255 Built-in Program 31
- 240-247 Built-in Program 30
- 232-239 Built-in Program 29
- 224-231 Built-in Program 28
- 216-223 Built-in Program 27
- 208-215 Built-in Program 26
- 200-207 Built-in Program 25
- 192-199 Built-in Program 24
- 184-191 Built-in Program 23
- 176-183 Built-in Program 22
- 168-175 Built-in Program 21
- 160-167 Built-in Program 20
- 152-159 Built-in Program 19
- 144-151 Built-in Program 18
- 136-143 Built-in Program 17
- 128-135 Built-in Program 16
- 120-127 Built-in Program 15
- 112-119 Built-in Program 14
- 104-111 Built-in Program 13
- 96-103 Built-in Program 12
- 88-95 Built-in Program 11
- 80-87 Built-in Program 10
- 72-79 Built-in Program 9
- 64-71 Built-in Program 8
- 56-63 Built-in Program 7
- 48-55 Built-in Program 6
- 40-47 Built-in Program 5
- 32-39 Built-in Program 4
- 24-31 Built-in Program 3
- 16-23 Built-in Program 2
- 8-15 Built-in Program 1
- 0-7 No Function

Channel 27 – Program Speed: 255 Slow, 0 Fast

Fig. 06

∞ infinity INTELLIGENT LIGHT®

Maintenance

The Infinity iS-250 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. Wipe the front glass panel clean with glass cleaner and a soft cloth. Do not use alcohol or solvents. The front glass panel will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light output very quickly. Do not immerse in liquid.

The cooling fans, color wheel, the gobo wheel, the gobos and the internal lenses 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 and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

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.

Replacing a 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 screwdriver into the 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.

Replacing a Gobo From the Rotating Gobo Wheel

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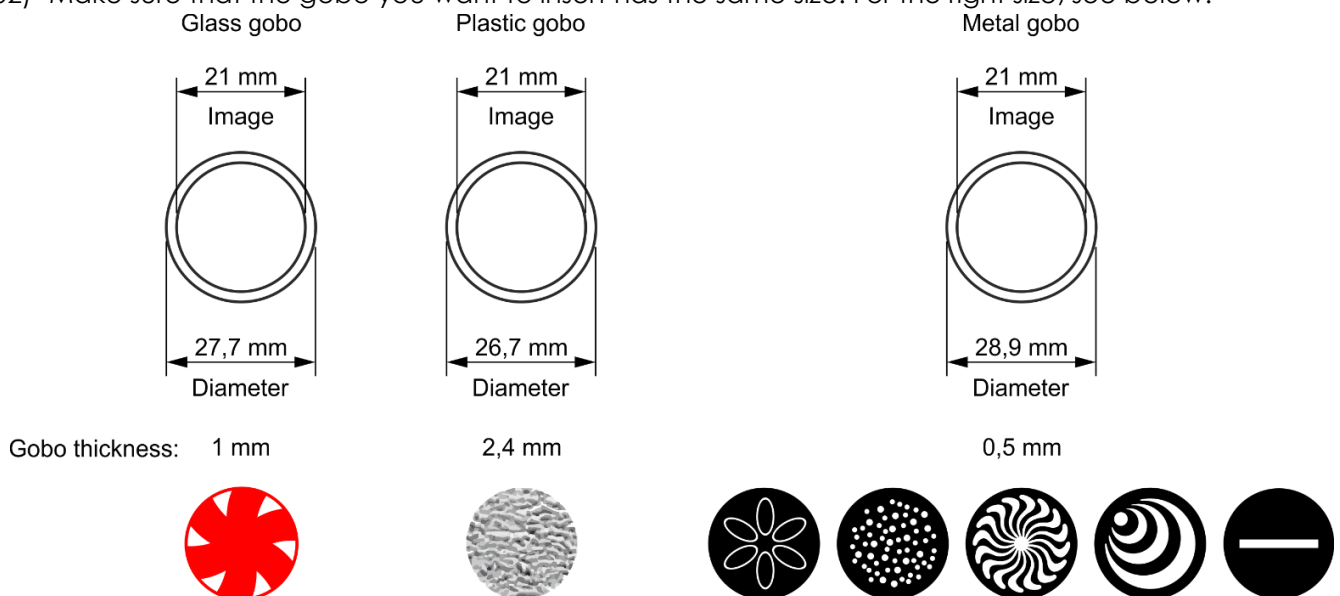02) Make sure that the gobo you want to insert has the same size. For the right size, see below.

Glass gobo	Plastic gobo	Metal gobo
21 mm — Image	21 mm — Image	21 mm — Image
27,7 mm — Diameter	26,7 mm — Diameter	28,9 mm — Diameter

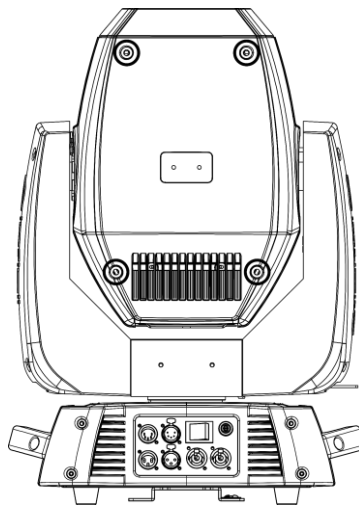Gobo thickness: 1 mm   2,4 mm   0,5 mm

Fig. 07

Fig. 08

03) Remove the lamp cover by removing the 4 screws (see fig. 08).
04) Gently tilt the head so the small metal housing will slide out more easy.
05) Turn the gobo wheel, with the gobo you want to remove, to the upside.
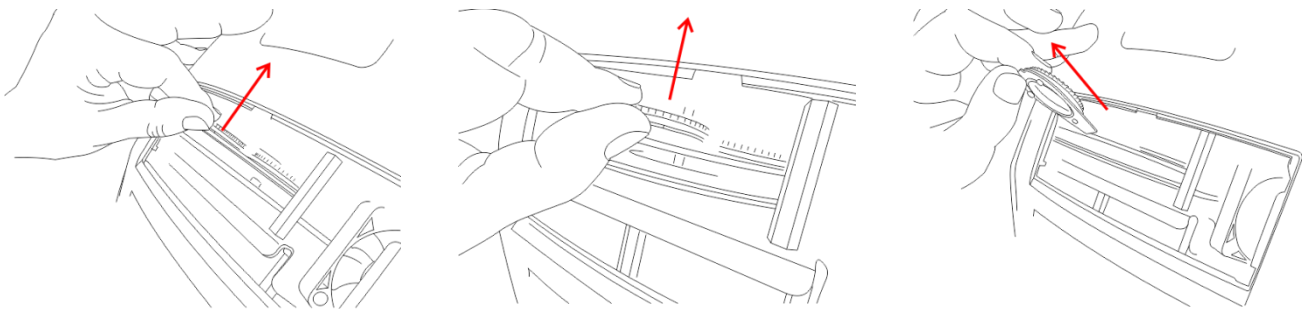06) Gently lift up the gobo holder 10° and then gently pull out the gobo from its position.

Fig. 09

07) Very carefully take the gobo out of the gobo holder with a pair of pliers.
08) Place the new gobo in the gobo holder. Carefully put the pinchcock back, gently press the pinchcock a little bit together. Possibly use a pair of pliers to press the pinchcock a little bit together.
09) Put the gobo holder back under the pressing snap and push it back.
10) Replace the maintenance caps and fasten all 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
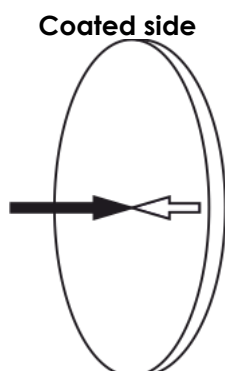
Uncoated side

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.
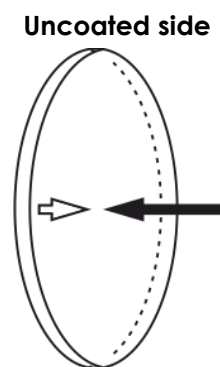
When an object is held up to the uncoated side there is a space between the object and its reflection. The back edge of the gobo can be seen when looking through the uncoated side.
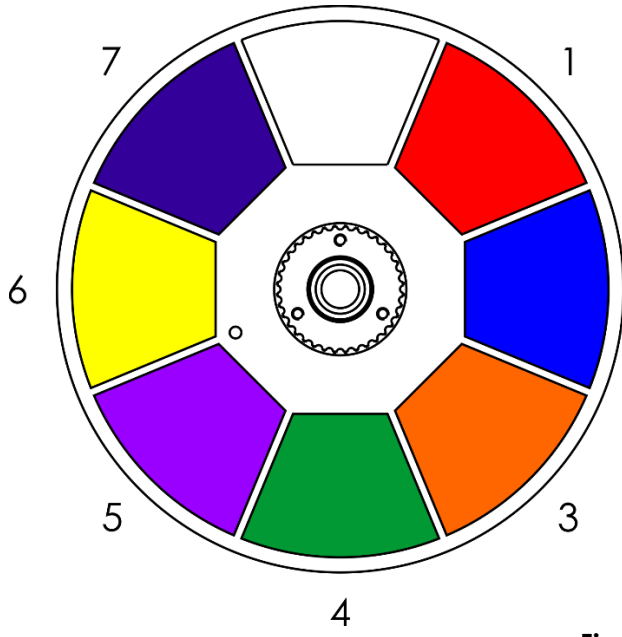
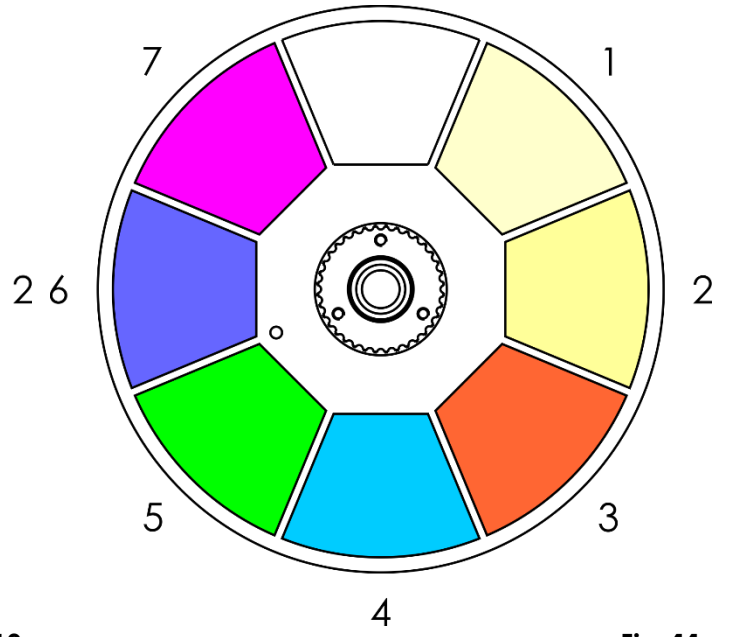**Color wheel 1**

Fig. 10

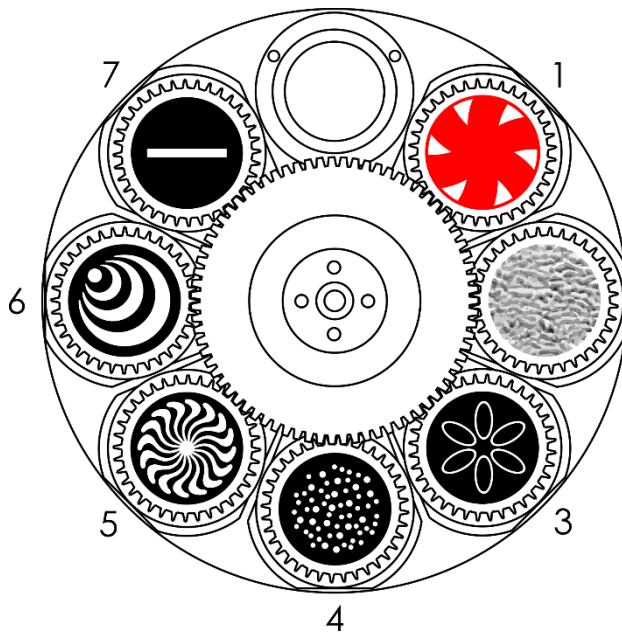**Color wheel 2**

Fig. 11

Rotating gobo wheel

Fig. 12

Static gobo wheel

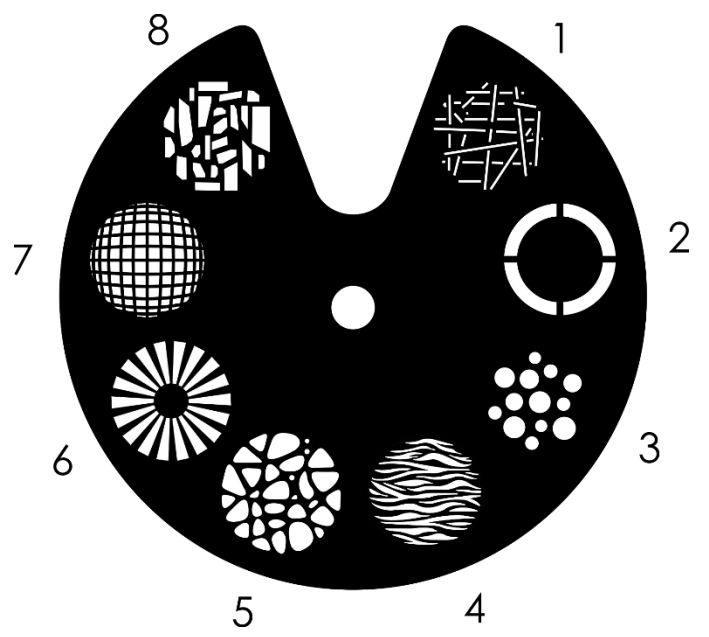Fig. 13

Troubleshooting

No Light

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.

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

Suspect four potential problem areas as: factory reset, the power supply, the LED, the fuse.

01) First try to reset the device to its original factory default settings (**3. Settings Menu** see page 16).
02) Power supply. Check that the unit is plugged into an appropriate power supply.
03) The LEDs. Return the Infinity to your Infinity dealer.
04) The fuse. Replace the fuse. See page 30 for replacing the fuse.
05) If all of the above appears to be O.K., plug the unit in again.
06) 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.
07) 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.

See next page for more problem solving.

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 LEDs 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
	LEDs damaged	• Disconnect the fixture and return it to your dealer
	The power supply settings do not match local AC voltage and frequency	• Disconnect fixture. Check settings and correct if necessary

Product Specifications

Model:	Infinity iS-250
Input voltage:	100-240V AC, 50/60Hz
Power consumption:	430W
DMX linking:	30pcs
Fuse:	F7AL/250V
Dimensions:	346 x 417 x 582 mm (LxWxH)
Weight:	25,4 kg
Operating and Programming:	
Signal pin OUT:	Pin 1 (earth), pin 2 (-), pin 3 (+)
DMX Mode:	21, 27 channels
Signal input:	3-pin/5-pin XLR IN
Signal output:	3-pin/5-pin XLR OUT
Electro-mechanical effects:	
Light source:	1 x 250W White LED (LumiEngin)
Lux @1m:	102400 (12°)
Rotating gobo wheel:	1 glass + 1 plastic + 5 metal gobos (replaceable)
Gobo size:	Glass gobo: 27,7 mm (gobo size); 21 mm (image diameter); 1 mm (gobo thickness) Plastic gobo: 26,7 mm (gobo size); 21 mm (image diameter); 2,4 mm (gobo thickness) Metal gobo: 28,9 mm (gobo size); 21 mm (image diameter); 0,5 mm (gobo thickness)
Static gobo wheel:	8 metal gobos
Gobo functions:	Gobo-flow effect, gobo shake
Color wheel 1:	7 dichroic-filters + white
Color wheel 2:	7 dichroic-filters + white
Color functions:	Split colors, Rainbow-flow effect
Beam angle:	12° - 27°
Dimmer:	0-100%
Strobe:	0-20Hz
Pan:	540°
Tilt:	270°
Focus:	Motorized
Iris:	Motorized
Prism:	3-facet rotating prism
Special:	Pan/ Tilt, Color, Gobo change blackout, User-selectable Pan & Tilt ranges, 540°/360°/180°, Reverse Pan / Tilt movement
Housing:	Metal & flame retardant plastic
IP rating:	IP20
DMX control:	via standard DMX-controller
Onboard:	Battery-powered full color display including gravity sensor
Battery lifetime:	max 30 days (full charge)
Control:	Built-in programs, Master/Slave, DMX-512
Color:	Black
Connections:	Dedicated PowerCON to Schuko & data connector
IP rating:	IP20
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:	1 m

Dimensions

266 mm

417 mm

582 mm

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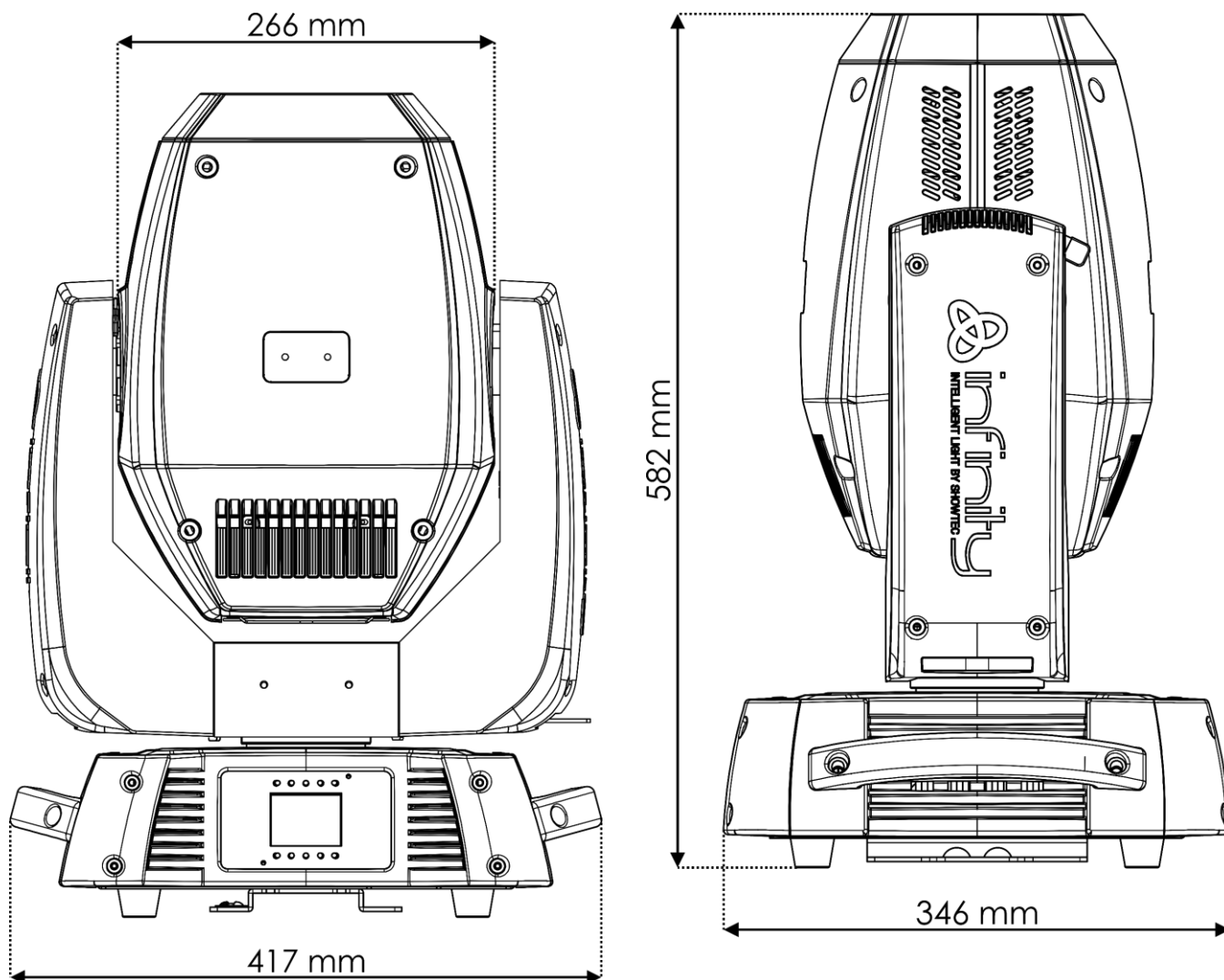
Design and product specifications are subject to change without prior notice.

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Notes