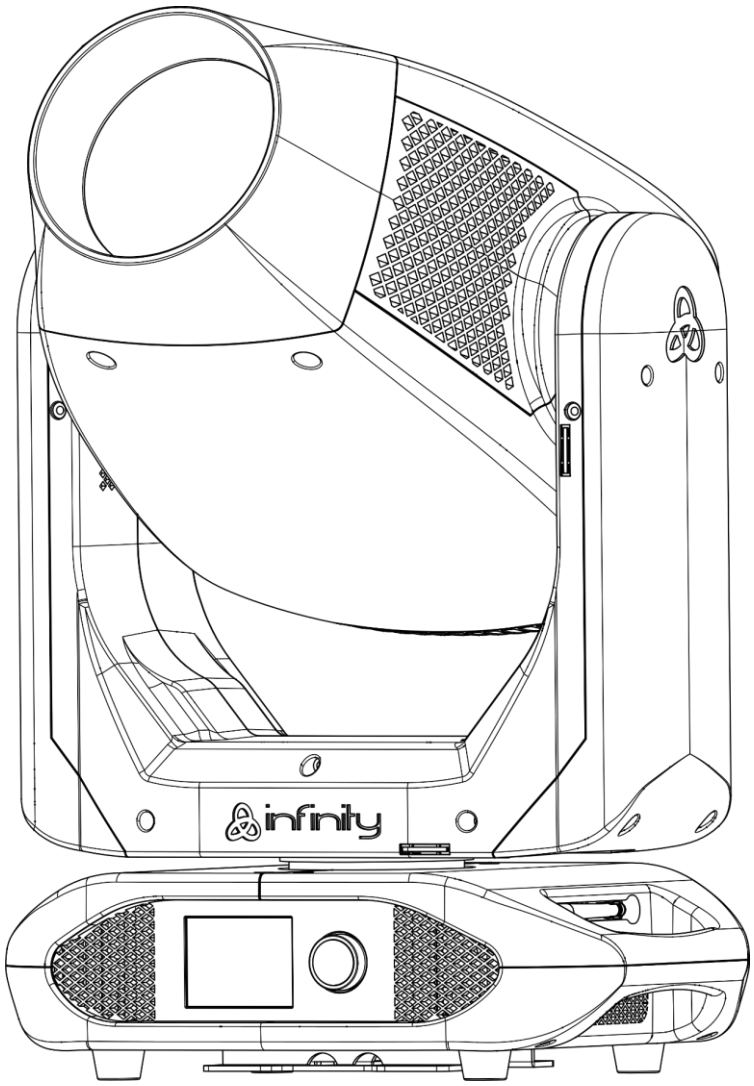
MANUAL



ENGLISH

Infinity S401 Spot V1

Ordercode: 41506

Table of contents

Warning 3
Safety Instructions 3
Operating Determinations 5
Rigging 5
Connection with the mains 6
Return Procedure 7
Claims 7

Description of the device 8
Output 8
Electrical 8
Control 8
Optical system 8
Movement 8
Gobos & Colors 8
Physical 8
Certification and Safety 9
Frontside 9
Backside 10

Installation 10
Lock/Unlock the Moving Head 10

Set Up and Operation 11
Control Modes 11
One Infinity (Stand-alone) 11
One Infinity (Manual) 11
Multiple Infinitys (DMX control) 12
Multiple Infinitys (Wireless DMX Control) 13
Connect the Infinity to the Wireless DMX Signal Transmitter 14
Disconnect the Infinity from the Wireless DMX Signal Transmitter 14
Multiple Infinitys (ArtNet Control) 15
Connecting to a Network 16
ArtNet Settings 16
How to Make a Data Cable 17
Software for controlling 17
Fixture Linking 18
Data Cabling 18
Control Panel 19
Control Mode 19
DMX Addressing 19
Menu Overview 20
Start-Up 24
Safety Lock 24
No Reset Start-Up 24
Main Menu Options 25
1. DMX Addressing 25
2. Control Mode 26
2.1. User Personality 26
3. Settings Menu 27
3.1. Network Settings 29
3.2. Lock Code 30
3.3. Touch Calibration 31
3.4. Service Menu 31
3.5. Reset Function 32
4. Manual Control 33
5. Stand-Alone 34

6. Information 34
6.1. Fixture Information 35
6.2. Fan Information 35
6.3. Error Information 35
6.4. Channel Information 36
DMX Channels 37
37 channels 41
26 channels 46

Maintenance 50
Replacing the Fuse 50
Gobo Size 50
Replacing a Gobo From the Rotating Gobo Wheel 51
Glass Gobo Orientation 52

Rotating and Static Gobo Wheel, Color Wheel and Animation Wheel 53

Troubleshooting 54
No Light 54
No Response to DMX 54

Product Specifications 56

Dimensions 57

Moving Head Position / DMX Values 58

Warning

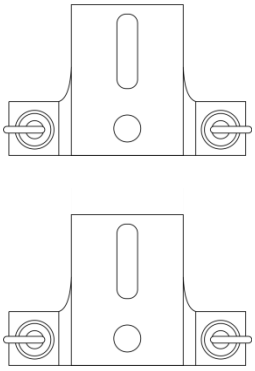
For your own safety, please read this user manual carefully before your initial start-up!

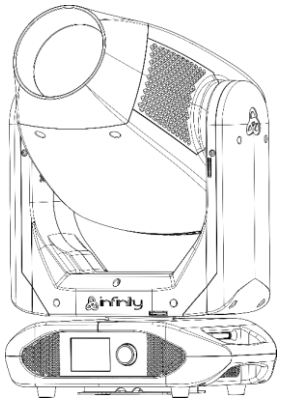
Unpacking Instructions

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 S401 Spot
- 2 x mounting bracket with quick-locks
- Neutrik PowerCON True1 power cable 1,5 m
- 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 life expectancy is of 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 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 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.
- In order to eliminate wear and improve the device's lifespan, during periods of non-use, completely disconnect from power source 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!

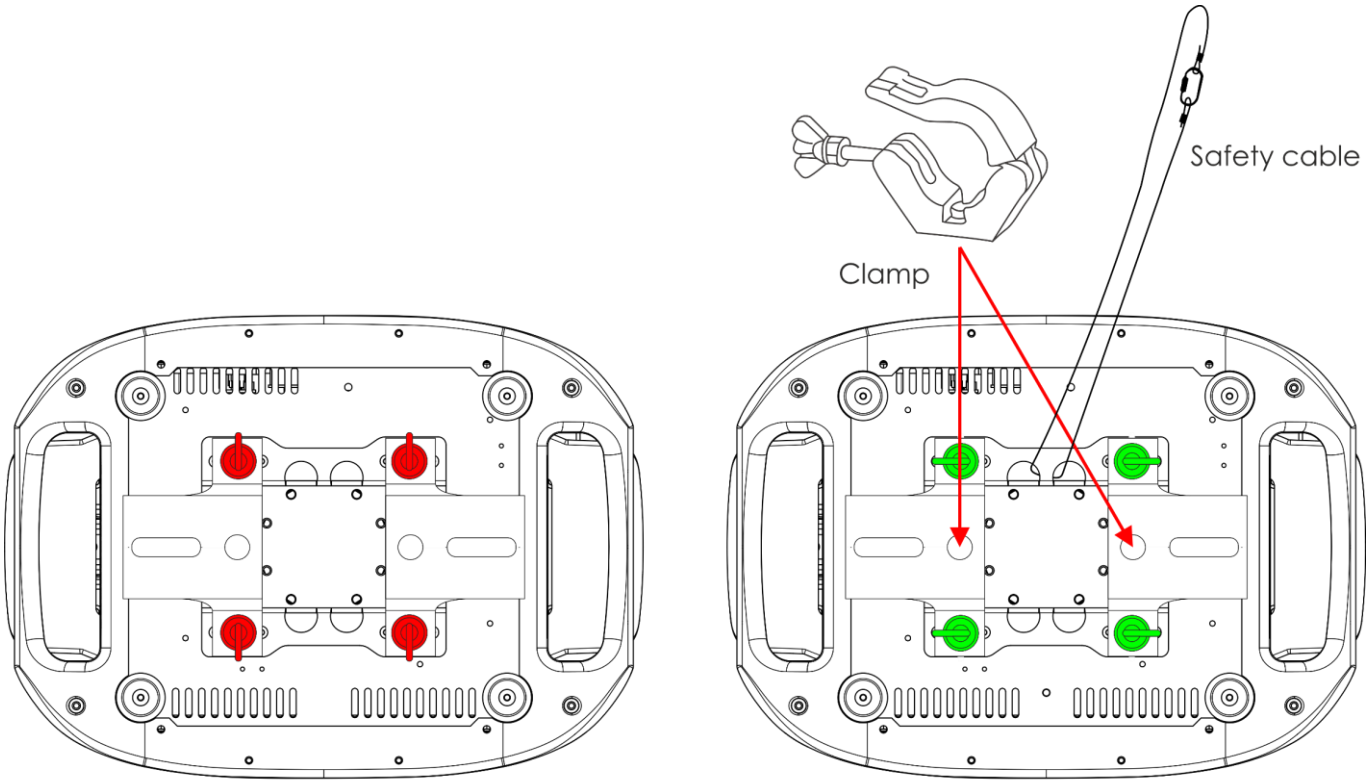
Rigging

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 site is secured and that there are not any unauthorized people around.



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!

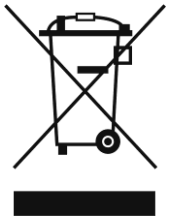
Connection with the mains

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!



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.

Description of the device

Features

The Infinity S401 Spot is a moving head with high output and great effects.

Output

- Lux @ 5m 6°: 34442
- Lux @ 5m 30°: 2205
- Beam angle: 6° - 30°
- Light source: 1 x 350W White LED
- Color temperature: 7500K

Electrical

- Input voltage: 100-240V AC, 50/60Hz
- Power consumption: 610W max. at full output

Control

- Onboard: Battery-powered, fixture-orientated touch display
- Control modes: Stand-Alone, Manual, DMX-512, W-DMX, ArtNet
- Control protocol: DMX, W-DMX, RDM, sACN, ArtNet
- DMX channels: Basic (26 channels), Advance (37 channels), User (up to 37 channels)
- Wireless DMX: Wireless Solutions Sweden

Optical system

- Dimmer: 16 bit, 0-100%
- Strobe: 0-20Hz
- Selectable PWM: 0,6/1,2/2/4/6/15 kHz
- Focus: Motorized auto focus
- Iris: Motorized, 0-100%
- Zoom: 8 or 16 bit (motorized)
- Prisms: 3-facet circular prism & 5-facet linear rotating prism
- Frost filter: Yes
- Animation: Continuously bi-rotating flame wheel & digital motion FX

Movement

- Pan: 540°
- Tilt: 270°
- Pan/Tilt resolution: 16 bit
- Special: Fixture-orientated auto pan invert

Gobos & Colors

- Rotating gobo wheel: 6 glass gobos + open
- Static gobo wheel: 7 metal gobos + open
- Gobo size: Glass gobo: **25,9** mm (gobo size); **22,94** mm (image diameter); **1,1** mm (gobo thickness)
- Gobo functions: Gobo-flow effect, Gobo shake
- Gobo rotation: Bi-directional
- Gobo index: 8 or 16 bit
- Color wheel: 7 dichroic filters + white
- CMY: 0-100%
- CTO: 0-100%
- Color functions: Split colors, Rainbow-flow effect, CMY macros

Physical

- Color: Black
- Housing: Metal & flame-retardant plastic
- Data connection: 5-pin Neutrik XLR & RJ-45 IN/OUT
- Power connection: Neutrik PowerCON True1 IN/OUT
- Fuse: F12AL/250V
- Dimensions: 385 x 284 x 680 mm (LxWxH)
- Weight: 28,9 kg

Certification and Safety
- Certification: CE
- Max. ambient temperature: 40°C

Optional accessories:
70454 – Safety cable Saveking 4 mm (Natural)
70456 – Safety cable Saveking 4 mm (Black)
FLA43 – DMX Terminator
75101 – Fast Coupler 150 kg (Black)

Frontside

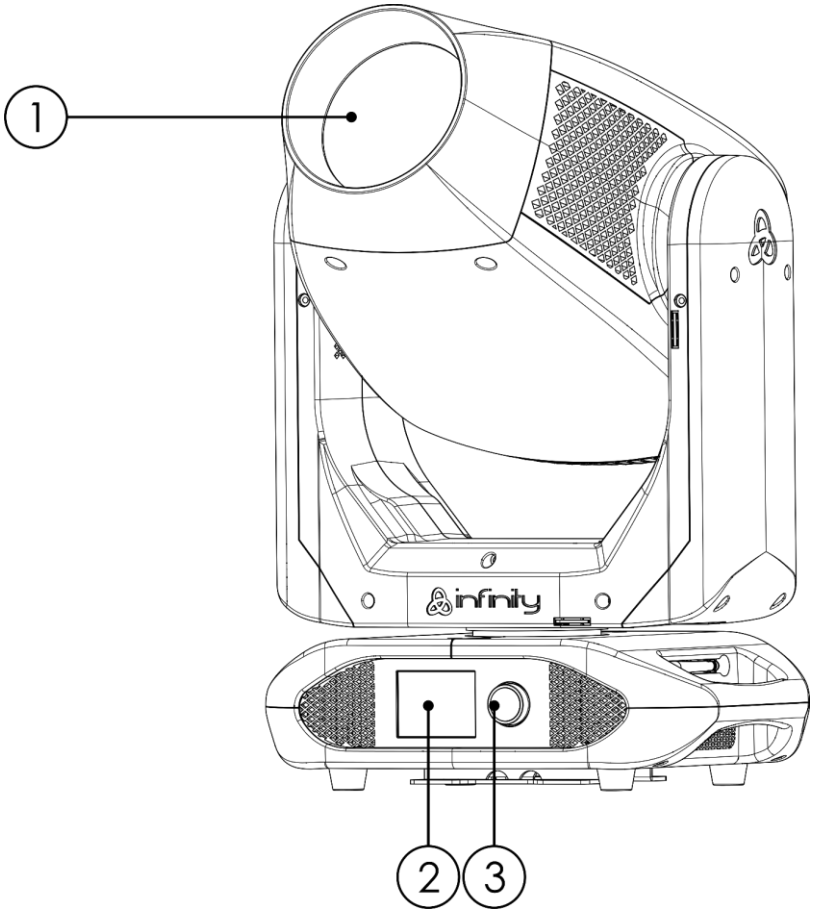


Fig. 01

01) Lens
02) LCD display
03) Menu control

Backside

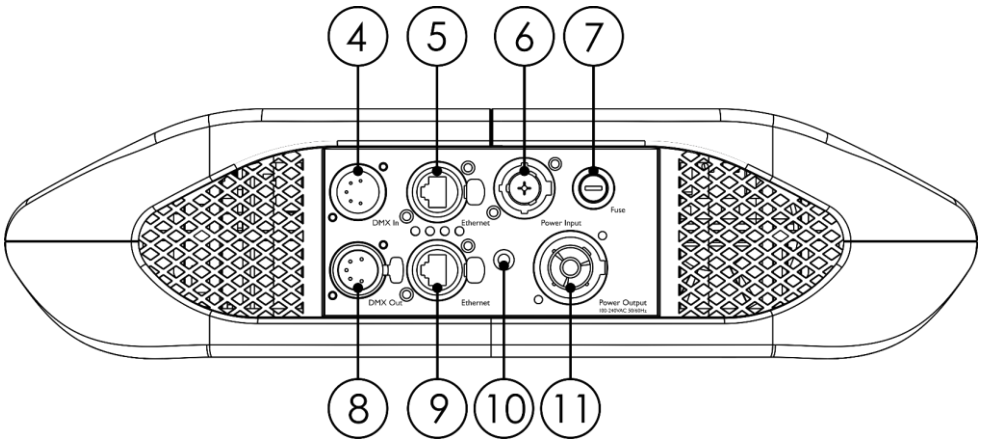


Fig. 02

04) 5-pin DMX signal connector IN
05) RJ45 ArtNet connector
06) Neutrik PowerCON True1 power connector IN
07) Fuse F12AL/250V
08) 5-pin DMX signal connector OUT
09) RJ45 ArtNet connector
10) Ground/earth connection
11) Neutrik PowerCON True1 power connector OUT

Installation

Remove all packing materials from the Infinity S401 Spot. 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.

Lock/Unlock the Moving Head

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

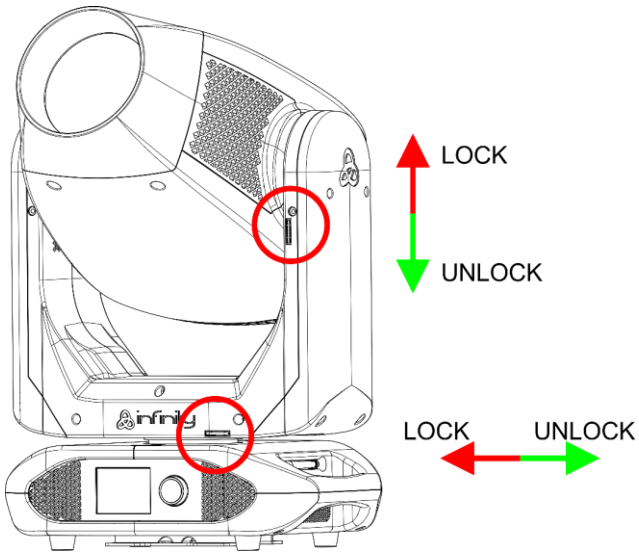


Fig. 03

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.

Control Modes

There are 5 modes:

- Stand-alone
- Manual
- DMX-512 (26CH, 37CH)
- W-DMX (26CH, 37CH)
- ArtNet (26CH, 37CH)

One Infinity (Stand-alone)

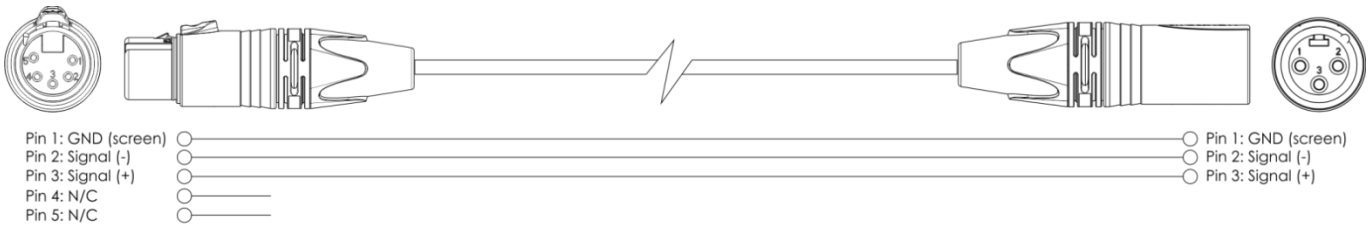
01) Fasten the effect light to a firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Plug the end of the electric mains power cord into a proper electric power supply socket.
04) When the Infinity is not connected with a DMX cable, it functions as a stand-alone device.
05) Please see page 34 for more information about Stand-alone mode.

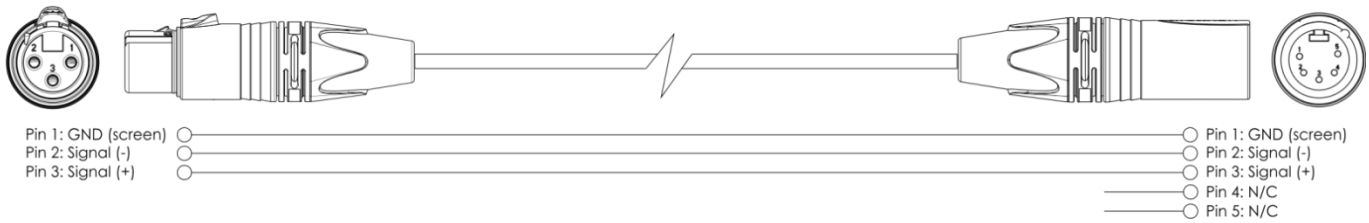
One Infinity (Manual)

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) Plug the end of the electric mains power cord into a proper electric power supply socket.
04) When the Infinity is not connected with a DMX cable, it functions as a stand-alone device.
05) Please see page 33 for more information about Manual mode.

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 5-pin XLR cable to connect the Infinity and other devices.





04) Link the units as shown in fig. 04. 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 True1 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

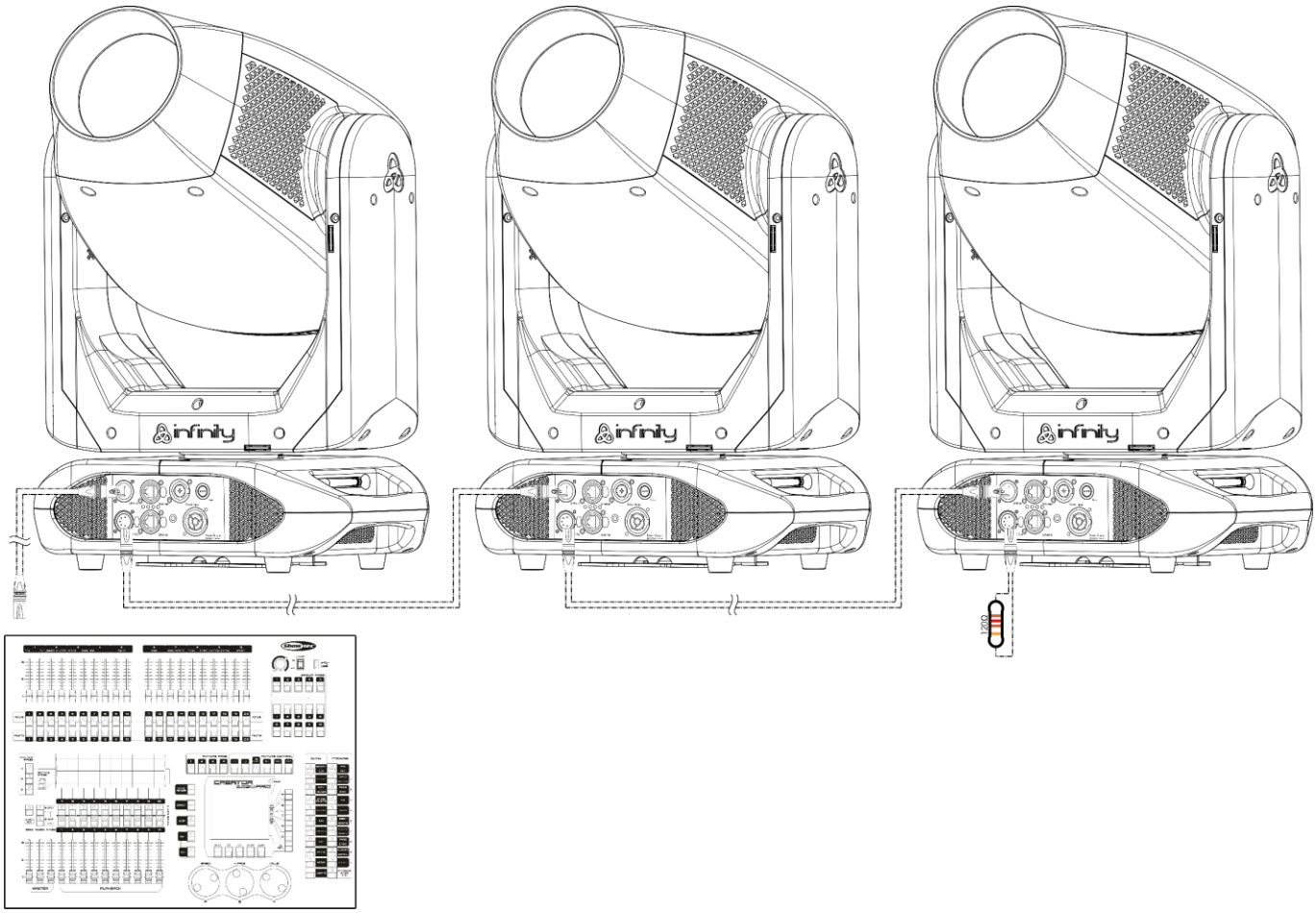


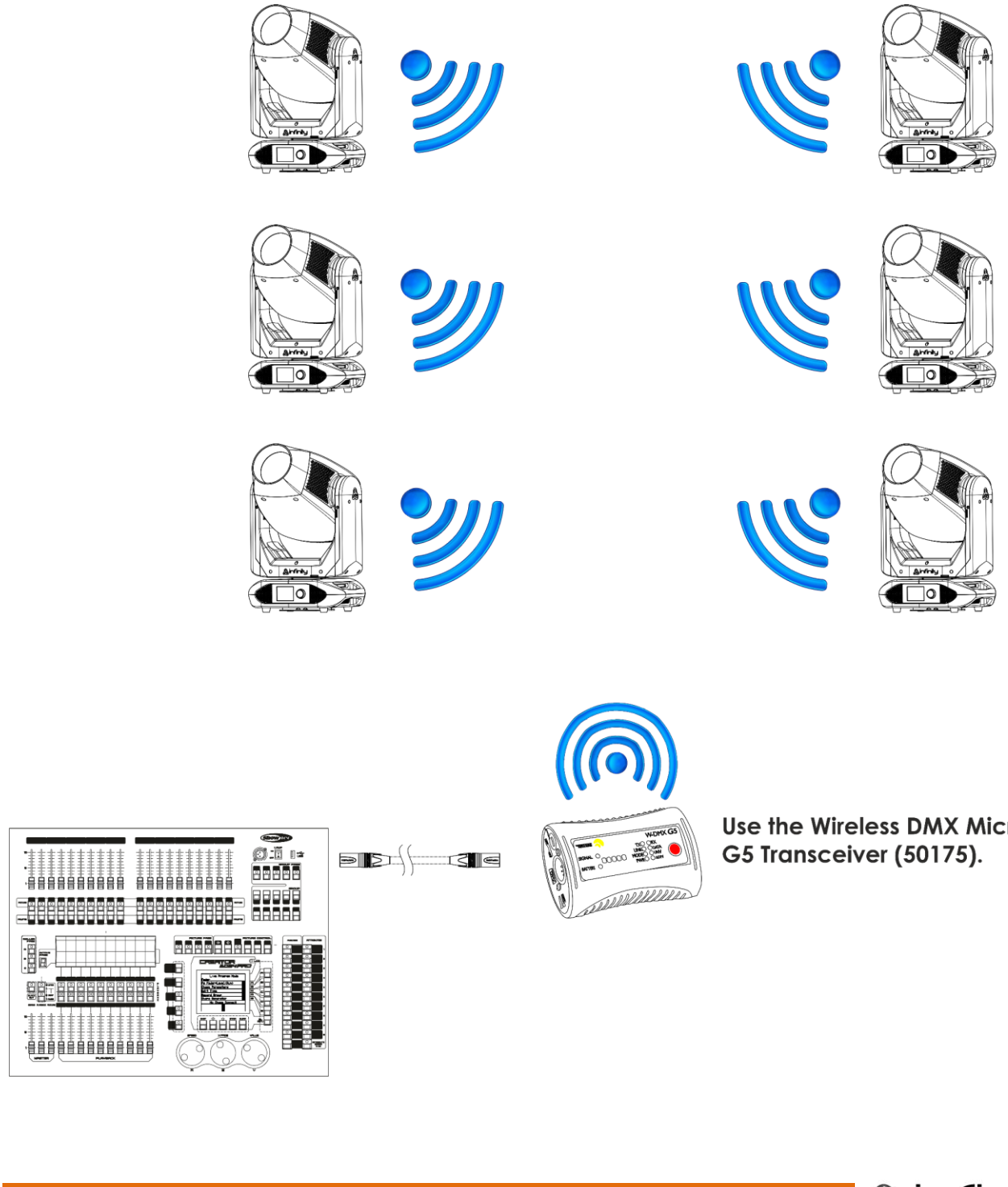
Fig. 04

Note : Link all cables before connecting electric power

Multiple Infinitys (Wireless DMX Control)

01) Install multiple Infinitys at the desired positions (maximum Wi-Fi distance: 250 m).
02) In order for the Infinitys to receive a wireless DMX signal properly, activate W-DMX on all Infinitys (see page 28 for more information).
03) Pair the wireless signal transmitter with multiple Infinitys. In order to create a wireless connection, please read the manual of your wireless signal transmitter.
04) When the green W-DMX indicator on the display is blinking, the device is searching for a connection.
05) Once a connection has been established, the W-DMX indicator will stop blinking and will light up green.
06) Use a DMX cable to connect the transmitter to a suitable light controller.

Multiple Infinitys Wireless DMX Control



Use the Wireless DMX MicroBox F-1 G5 Transceiver (50175).

Fig. 05

Sweden 2.4GHz Wireless communication module

Communication distance:	Depending on the transmitting power or transmitter module
Test conditions:	W-DMX TRx Transmitter module, 2dBi Antenna, transmitting power 20dBm (100mW)
Range indoor:	60 m (approx. through three concrete walls)
Range outdoor:	250 m

Wireless DMX Connection

The wireless receiving module "Pico G4 Receiver, 2.4GHz", provided by Swedish WIRELESS SOLUTION, only has a 2.4 GHz wireless signal receiving function. In order to match the wireless signal, please use the 50175 W-DMX MicroBox F-1 G5 Transceiver by WIRELESS SOLUTION. To control the status of the wireless communication, please look at the blue LED indicator on the bottom of the fixture.

Wi-Fi Problems:

01) No connection with a transmitter.
The W-DMX indicator on the display will be gray.
02) Searching for a connection.
The W-DMX indicator on the display will be blinking quickly.

When the wireless DMX communication is normal, the W-DMX indicator on the display is always green.

The Infinity cannot receive a wireless DMX signal and a DMX cable signal at the same time.

Connect the Infinity to the Wireless DMX Signal Transmitter

The Infinity cannot actively match a random wireless signal transmitter.
In order to create a wireless match, please check the manual of your wireless signal transmitter.
We advise you to use the W-DMX MicroBox F-1 G5 Transceiver (50175) by WIRELESS SOLUTION (Fig. 06).

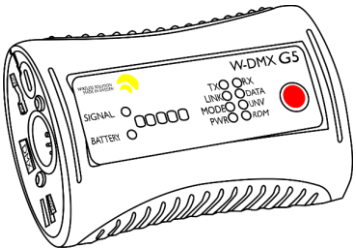


Fig. 06

Disconnect the Infinity from the Wireless DMX Signal Transmitter

01) Turn off/unlink the W-DMX. In order to do so, deactivate W-DMX (see page 28 for more information).
02) Unlink the Infinity (see page 28 for more information).
03) The Infinity will now be disconnected.

Multiple Infinitys (ArtNet 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 CAT-5/CAT-6 cable to connect the Infinity and other devices.
04) Connect your PC with installed ArtNet software to the first device's RJ45 "in" socket.
05) Link the units as shown in fig. 07. Connect the first unit's RJ45 "out" socket with the second unit's "in" socket, using a CAT-5/CAT-6 cable. 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 True1 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 ArtNet Set Up

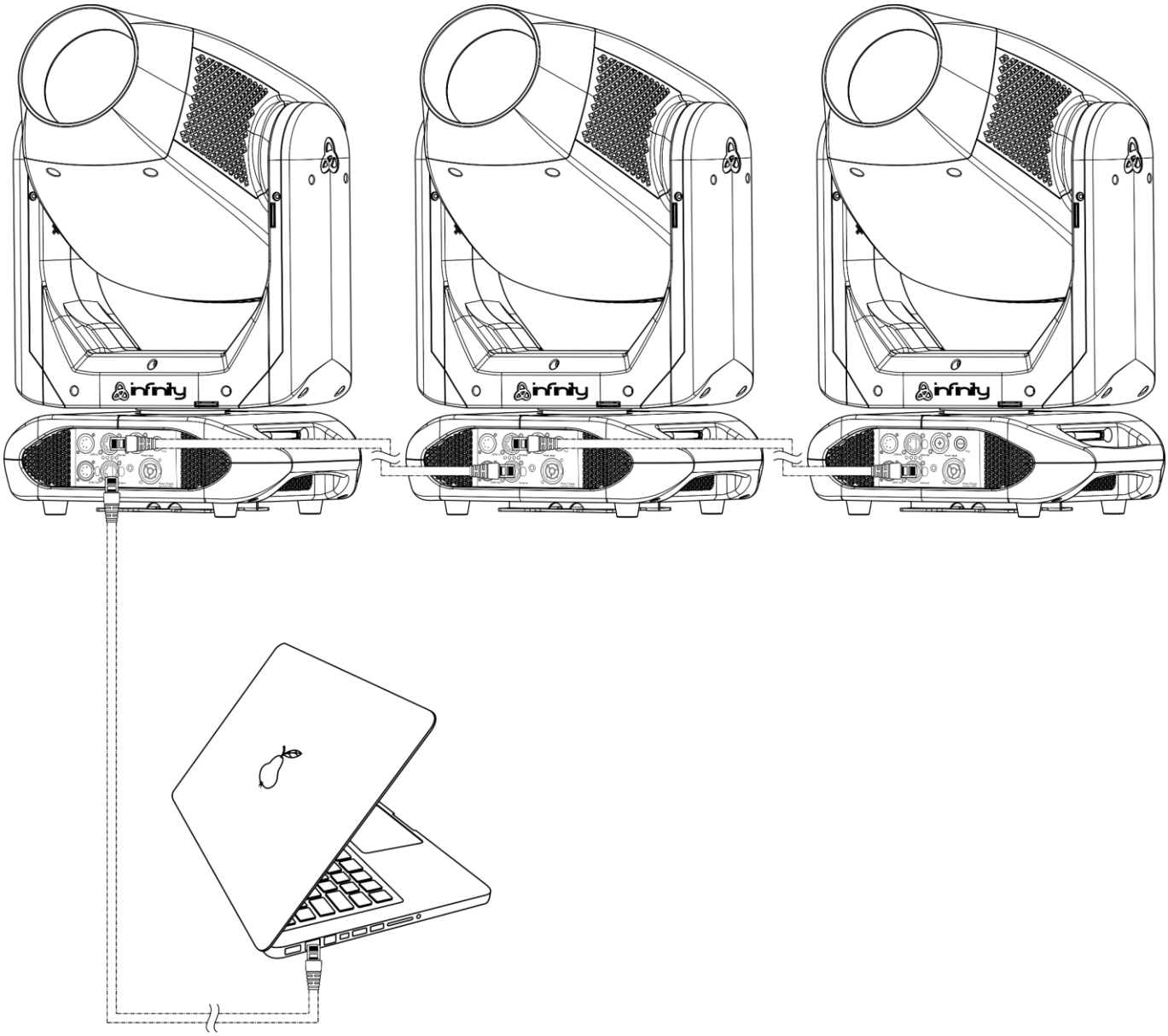


Fig. 07

Note : Link all cables before connecting electric power

Connecting to a Network

ArtNet Settings

01) Install any ArtNet-based software on your PC (Windows or Mac) or use a light controller which supports ArtNet.
02) Connect the power supply to the Infinity.
03) Connect the device's Ethernet connector to your software/light controller's Ethernet connector, using a CAT-5/CAT-6 cable.
04) Set the IP address of your software/light controller to **2.x.x.x** or **10.x.x.x**, depending on the ArtNet settings.
05) Set the subnet mask to **255.0.0.0**. on both – the Infinity and your software/light controller. Make sure that all the fixtures in the network have a **unique IP address**.
06) If you want to connect more fixtures, follow the example below.

Example:

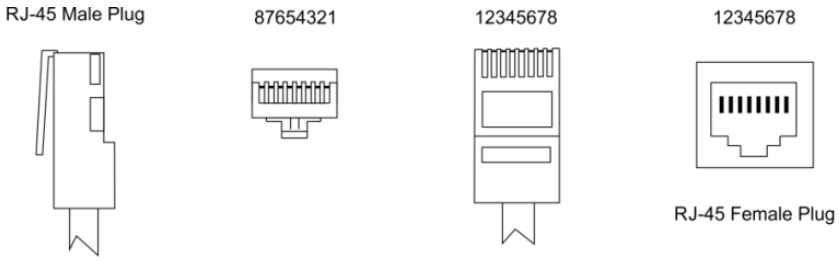
01) Make sure that each connected Infinity has a **unique IP address**.
02) Make sure that the subnet mask on each device is set to **255.0.0.0**.
03) Set the universe of the first Infinity to **1**.
04) Set the first Infinity's DMX address to **001**.
05) Please note, that you can connect only 13 devices (13 x 37 channels = 481 channels needed). Due to the channel limit of 512, you cannot connect the 14th device to the same data line, as it would result in limited functionality of the 14th device.
06) In order to solve this problem, set the universe of the 14th S401 to **2** and its DMX address to **001**.
07) When connecting multiple devices, you can repeat steps 5 and 6 up to 255 times, each time inserting ascending universe numbers (as there are 255 universes available).
08) Using your software (for example 50224 - Arkaos Media Master Express), map all the connected devices, using the settings described above.
09) The Infinity S401's are now ready for use.
10) When creating large setups, it is recommended to use a 16-bit, high speed ethernet switch to distribute the ArtNet data signal.

How to Make a Data Cable

A standard ETHERNET cable can be used to replace the data cable required to transmit the data for the S401 Spot.

Please follow the instructions below in order to create an extra net cable.

Take a standard net cable (CAT-5/ 5E /6) and connect it to the RJ45 connector, as shown in the picture below (Fig. 08). The wires should now be colored as follows:



Color Standard EIA/TIA T568A — Ethernet Patch Cable

	RJ45	Pin#	Pin#	RJ45	
TX+	Green/White Tracer	1	1	Green/White Tracer	PR 3
TX -	Green	2	2	Green	
RX +	Orange/White Tracer	3	3	Orange/White Tracer	PR 2
	Blue	4	4	Blue	PR 1
	Blue/White Tracer	5	5	Blue/White Tracer	
RX -	Orange	6	6	Orange	PR 2
	Brown/White Tracer	7	7	Brown/White Tracer	PR 4
	Brown	8	8	Brown	

Fig. 08

Software for controlling

Connect all the devices and run your software.

50224
Arkaos Media Master Express
The latest update of the successful media server software.

502267
Arkaos Media Master Pro 4.0: PRO DMX video software for lighting designers.

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 fixtures on a power link @110V: 1 fixture
Maximum recommended number of fixtures on a power link @240V: 2 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.

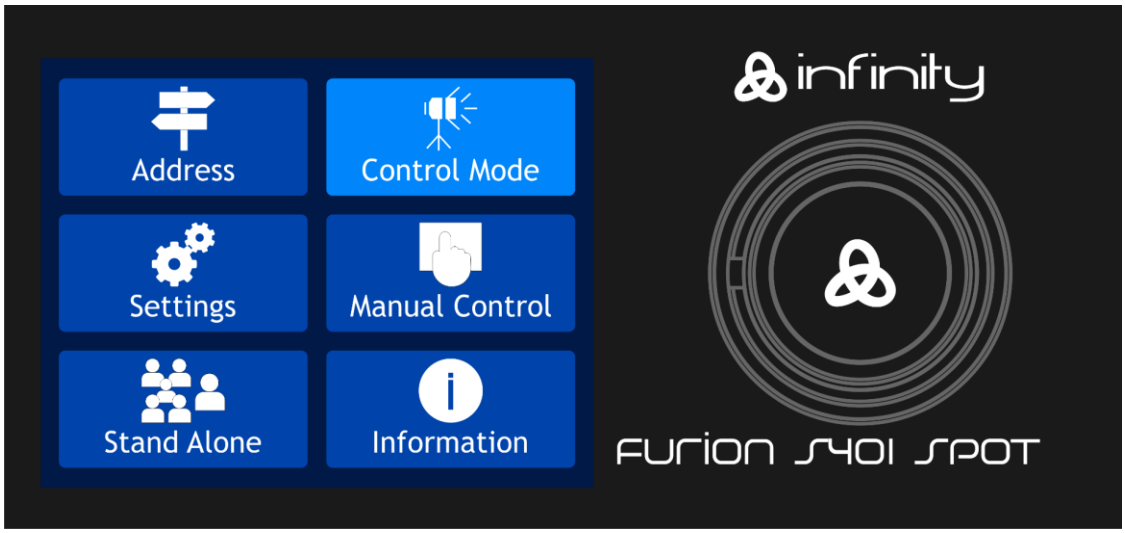
DAP Audio DMX Data Cables

- 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.

DAP Audio PC Interface Cables

- CAT-5 cable 7,6 mm Matte blue PVC. **Ordercode** FL55150 (1,5 m), FL553 (3 m), FL556 (6 m), FL5510 (10 m), FL5515 (15 m), FL5520 (20 m).
- CAT-6 cable (recommended for best data transfer). **Ordercode** FL563 (3 m), FL566 (6 m), FL5610 (10 m), FL5615 (15 m), FL5640 (40 m).

Control Panel



Touch the display and/or press and turn the control to navigate through the menu options.

Fig. 09

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 **37** 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+37=38 (038)**; the DMX address of the third Infinity should be **38+37=75 (075)**, etc.
Please, be sure that you do not 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:

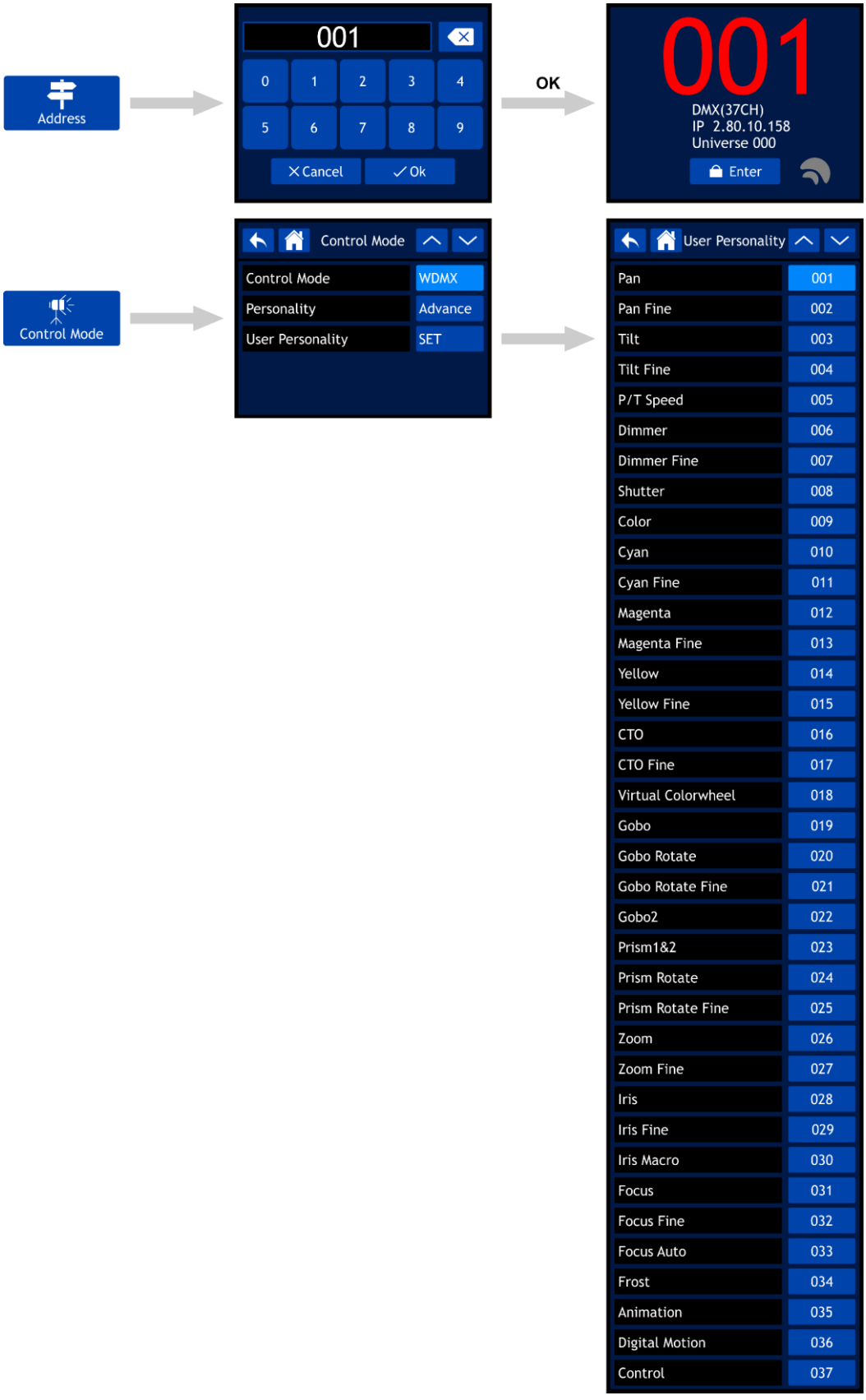
- The XLR cable from the controller is not connected with the input of the Infinity.
- The controller is switched off or defective, the cable or connector is detective, or the signal wires are swapped in the input connector.

Note: It is 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.

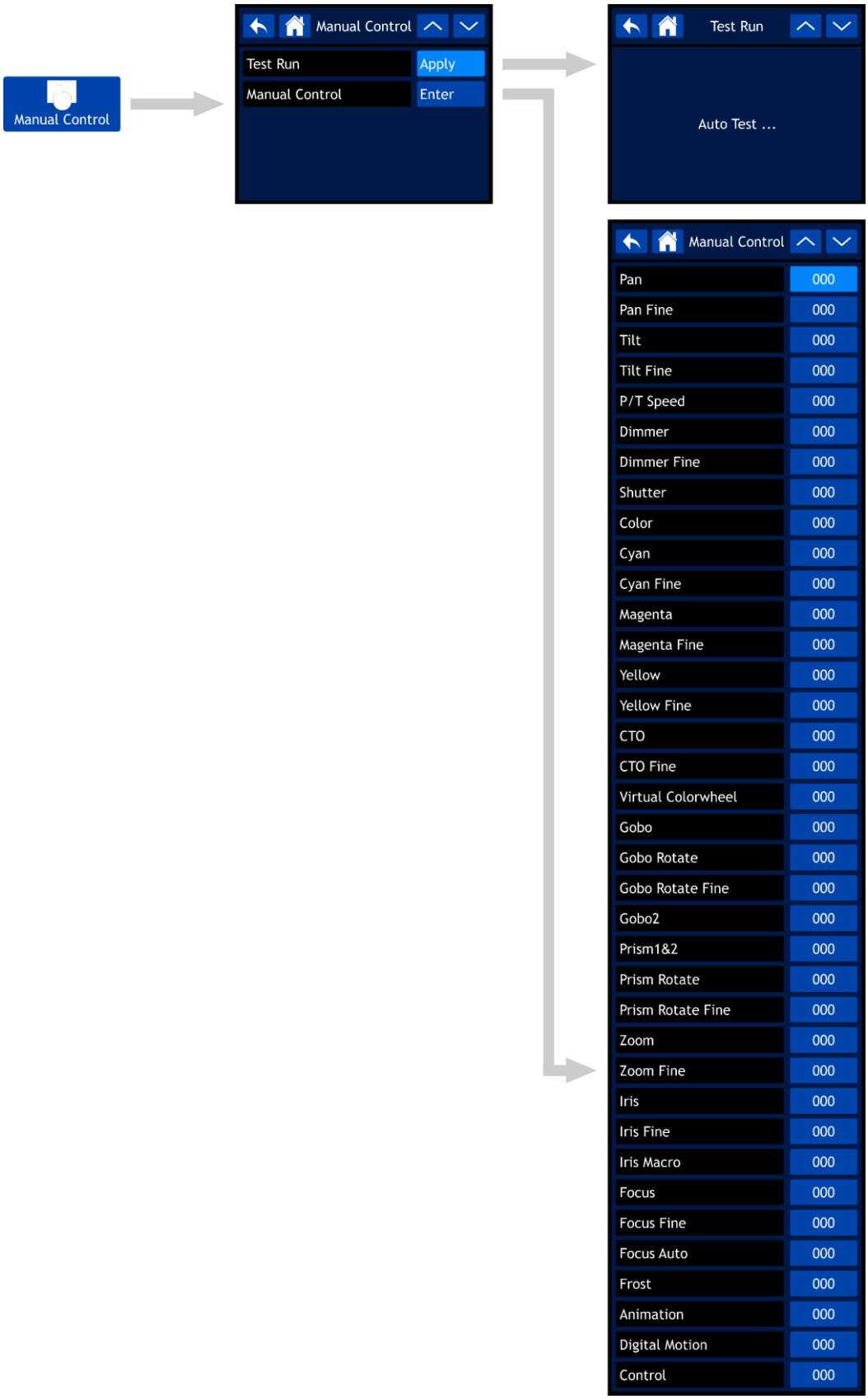
⚠ Display Off after 35 seconds ⚠

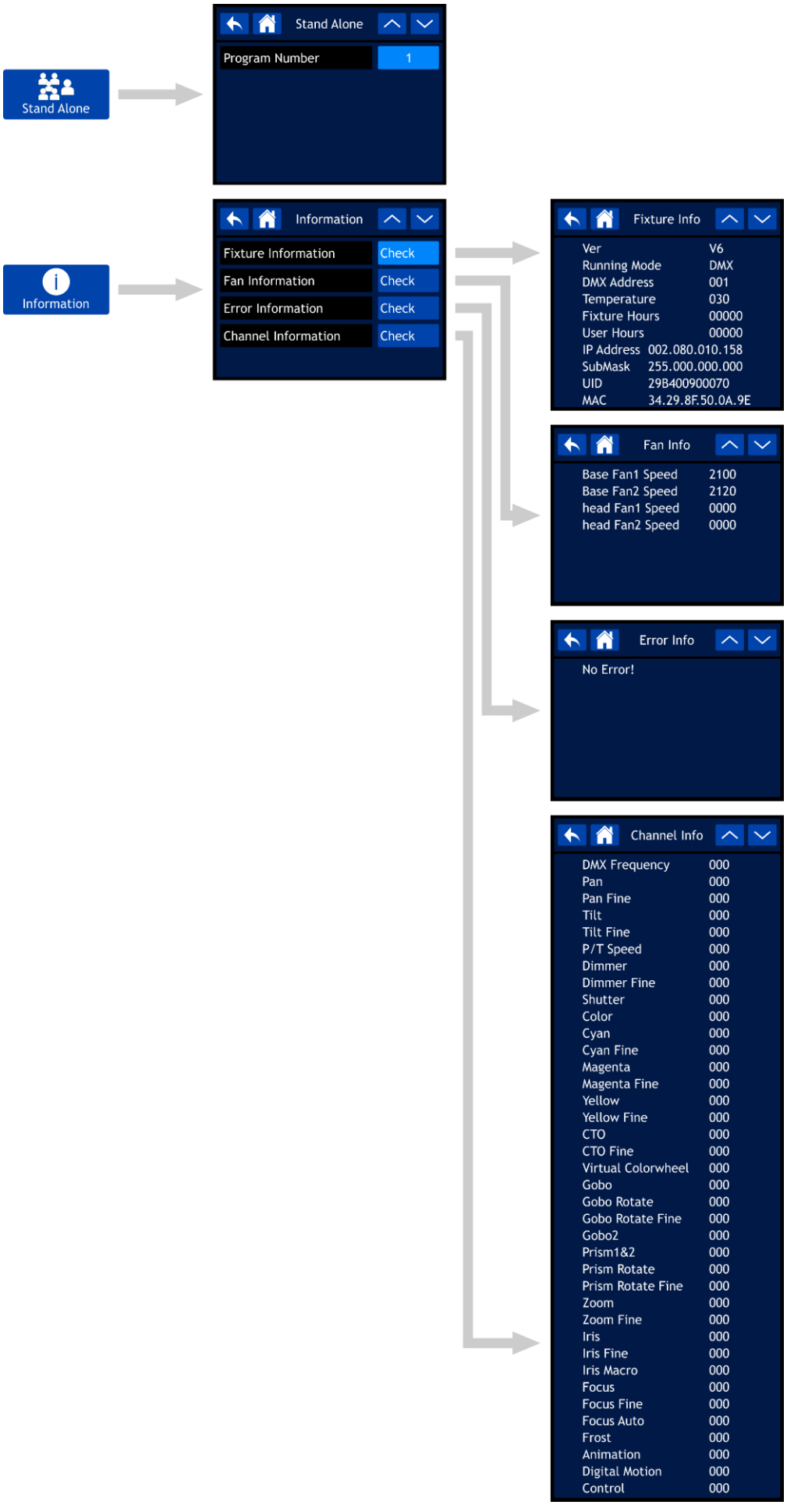
When the menu control or the display is not pressed for 35 seconds, the display will turn off.
To light up the display, you have to press the menu control or the display as described above.
Once you have pressed the menu control or the display, the display will light up.

Menu Overview




Settings
Settings
Screen Reverse AUTO
Pan Reverse NO
Tilt Reverse NO
Pan Angle 540
Tilt Angle 270
Auto Pan Invert ON
Backlight Timer 30S
Dimmer Curve Linear
PWM Option 4000Hz
WDMX OFF
Wireless Unlink NO
DMX Fail Hold
Fans Auto
Network Settings Enter
Lock Code SET
Touch Calibration SET
BL. O. P/T Move NO
BL. O. Color Move NO
BL. O. Gobo Move NO
Service Menu Enter
Reset User Hours NO
Reset Function Enter
Factory Settings NO
NetWork Setup
IP Mode Manual
Universe 000
IP Address Enter
SubMask Enter
000
002.080.010.158
255.000.000.000
6468
OK
Lock Code
Activate Lock Code NO
Enter Lock Code SET
1111
OK
Lock Code
Activate Lock Code NO
Enter Lock Code SET
Use your finger to touch the crosses in the corners of the screen until the adjustment is complete.
6468
OK
Zero Adjust
PAN 088
TILT 128
COLOR 121
GOBO 123
GOBO ROTATE 128
GOBO2 146
FOCUS-GOBO2 082
FOCUS-GOBO 116
ZOOM 166
PRISM1 131
PRISM2 090
PRISM2 ROT 128
IRIS 157
FROST 079
CYAN 128
MAGENTA 128
YELLOW 128
CTO 128
ANIMATION 153
DIMMER1 128
DIMMER2 147
DIMMER3 147
DIMMER4 147
DIMMER5 147
MAC4 080
MAC5 008
MAC6 070
RDM ID4 112
RDM ID5 000
RDM ID6 138
Reset Functions
Pan/Tilt NO
Iris/Prism NO
Color/CMY NO
Gobo/Gobo Rotate NO
Frost/Animation NO
All NO


Manual Control
Manual Control
Test Run
Apply
Manual Control
Enter
Test Run
Auto Test ...
Manual Control
Pan 000
Pan Fine 000
Tilt 000
Tilt Fine 000
P/T Speed 000
Dimmer 000
Dimmer Fine 000
Shutter 000
Color 000
Cyan 000
Cyan Fine 000
Magenta 000
Magenta Fine 000
Yellow 000
Yellow Fine 000
CTO 000
CTO Fine 000
Virtual Colorwheel 000
Gobo 000
Gobo Rotate 000
Gobo Rotate Fine 000
Gobo2 000
Prism1&2 000
Prism Rotate 000
Prism Rotate Fine 000
Zoom 000
Zoom Fine 000
Iris 000
Iris Fine 000
Iris Macro 000
Focus 000
Focus Fine 000
Focus Auto 000
Frost 000
Animation 000
Digital Motion 000
Control 000


Stand Alone
Stand Alone
Program Number 1
Information
Information
Fixture Information Check
Fan Information Check
Error Information Check
Channel Information Check
Fixture Info
Ver V6
Running Mode DMX
DMX Address 001
Temperature 030
Fixture Hours 00000
User Hours 00000
IP Address 002.080.010.158
SubMask 255.000.000.000
UID 298400900070
MAC 34.29.8F.50.0A.9E
Fan Info
Base Fan1 Speed 2100
Base Fan2 Speed 2120
head Fan1 Speed 0000
head Fan2 Speed 0000
Error Info
No Error!
Channel Info
DMX Frequency 000
Pan 000
Pan Fine 000
Tilt 000
Tilt Fine 000
P/T Speed 000
Dimmer 000
Dimmer Fine 000
Shutter 000
Color 000
Cyan 000
Cyan Fine 000
Magenta 000
Magenta Fine 000
Yellow 000
Yellow Fine 000
CTO 000
CTO Fine 000
Virtual Colorwheel 000
Gobo 000
Gobo Rotate 000
Gobo Rotate Fine 000
Gobo2 000
Prism1&2 000
Prism Rotate 000
Prism Rotate Fine 000
Zoom 000
Zoom Fine 000
Iris 000
Iris Fine 000
Iris Macro 000
Focus 000
Focus Fine 000
Focus Auto 000
Frost 000
Animation 000
Digital Motion 000
Control 000

Start-Up

The display is equipped with a touch screen, which means that the options can be accessed in 2 ways:

- **By turning (to select/adjust the values) and pressing the control (to confirm).**
- **By touching the options directly on the screen.**

Please note, that some options can be accessed ONLY by turning/pressing the control and the touch screen will not work.

01) Upon start-up, the device will show the start screen:



02) You can now see the current DMX starting address, the currently selected control protocol and the channel mode.

03) If W-DMX is active, the W-DMX indicator will appear on the screen.

- If the Infinity is not assigned to a transmitter, the indicator will be gray.
- If the Infinity is assigned to a transmitter but DMX is not present, the indicator will blink slowly.
- If the Infinity is assigned to a transmitter and DMX is present, the indicator will be green.
- If the Infinity is being linked to a transmitter or lost the connection with the transmitter, the indicator will blink quickly.

Safety Lock

01) Select ENTER on the display to gain access to the main menu.

02) If the safety lock is active (see page 30 for more information), you will need to insert the 4-digit safety code. **If the safety lock is not active, skip steps 2-4 and proceed to step 5**:



03) The universal master code is: **6468**. Type the code in using the touch screen or by turning and pressing the control. It is also possible to set up your own personal safety code (see page 30 for more information). Select OK in order to confirm the code.

04) If you wish to activate the safety lock again, press and hold down the control for 3 seconds.

05) The display will now show the main menu. Please see the next page.

No Reset Start-Up

It is not required to turn the Infinity on, in order to adjust the device's settings. It is possible to activate only the display. There are 2 possibilities:

- Press and hold down the control for 3 seconds. The Infinity will remain off and the display will be on.
- Upon power-up, press and hold down the control and, at the same time, supply power. The Infinity will start without a reset and the display will function regardless of the supplied power or the lack thereof.

Main Menu Options



DMX Addressing



Control Mode



Settings Menu



Manual Control



Stand-Alone



Information



Return one step back



Up



Home



Down

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

01) In main menu, select 

and enter the menu. The display will show:



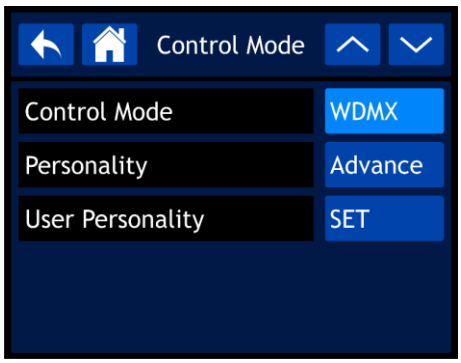
02) Turn the control or type in the desired DMX address. The adjustment range is between 001-512.
03) Once you have set the desired DMX address, select OK to store the settings.

2. Control Mode

With this menu you can set your desired control mode and DMX personality.

01) In main menu, select 

and enter the menu. The display will show:



02) Select the required mode:
- CONTROL MODE: DMX, WDMX, ArtNet, sACN
- PERSONALITY: BASIC (26 channels), ADVANCE (37 channels), USER (up to 37 channels)
- USER PERSONALITY: Customize your Infinity by changing the order of the 37 DMX channels and/or leaving some channels out. Please, see below for more information.

2.1. User Personality

01) Once you have selected USER PERSONALITY, the display will show:



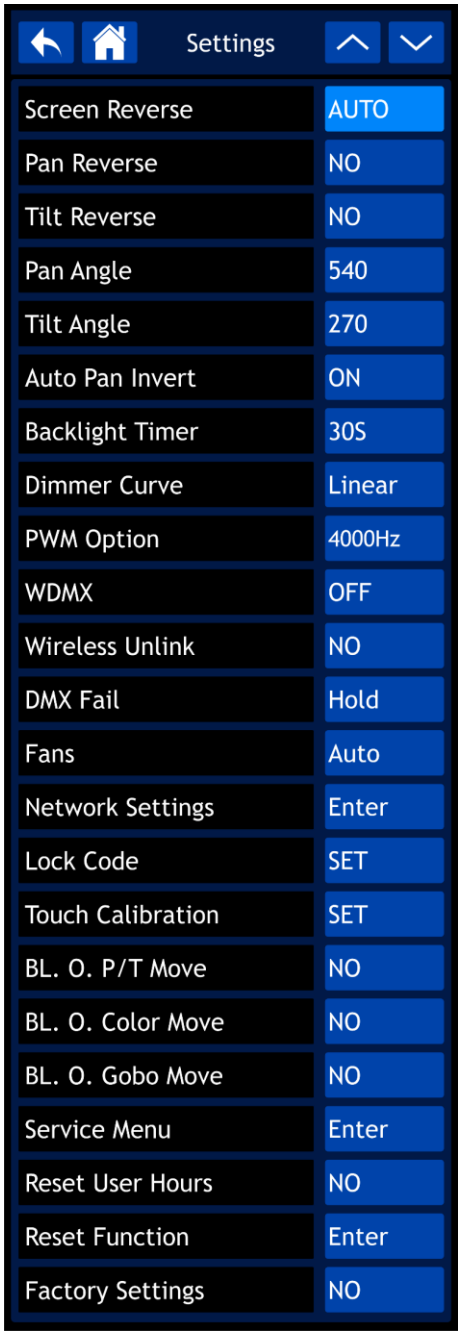
02) Use the control or the UP/DOWN buttons to toggle through the 37 functions. The functions correspond with the functions listed in the DMX section, 37 Channels. See page 41 for more information.
03) Press the control to confirm your choice.
04) Turn the control in order to assign a DMX channel to this function. The adjustment range is between 001-037 and NO (the function will be skipped).
05) Press the control to confirm your choice.

3. Settings Menu

With this menu you can set your desired mode.

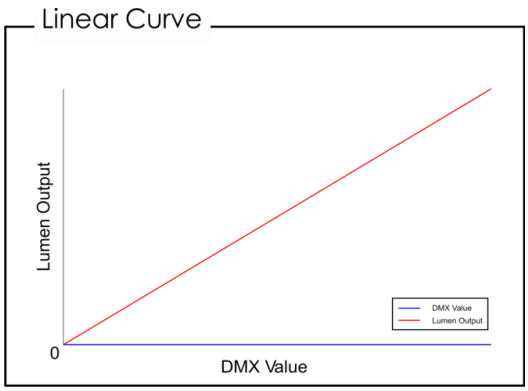
01) In main menu, select 

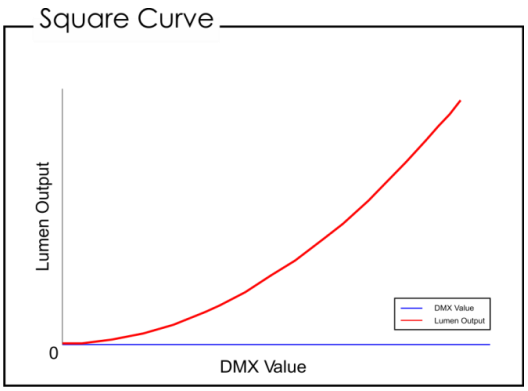
and enter the menu. The display will show:

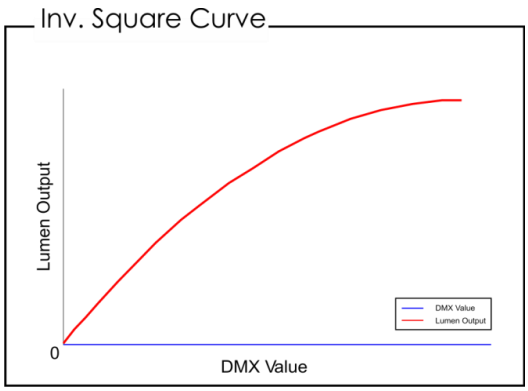


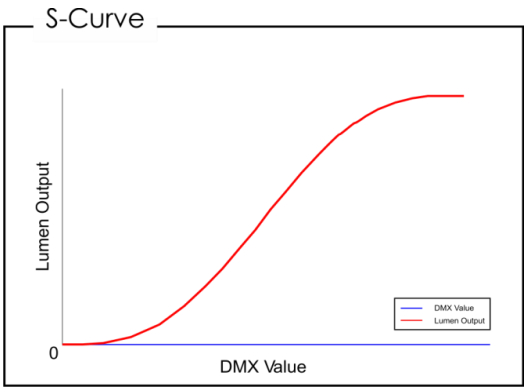
02) Use the control or press the UP/DOWN buttons to toggle through the 23 submenus.
03) Press the control to confirm your choice.
04) Turn the control in order to adjust the values.
05) Press the control to save your settings.

06) The available submenus are:
- SCREEN REVERSE: The display will be flipped, depending on the position of the Infinity(AUTO/YES/NO)
- PAN REVERSE: NO/YES
- TILT REVERSE: NO/YES
- PAN ANGLE: 540°/360°/180°
- TILT ANGLE: 270°/180°/90°
- AUTO PAN INVERT: Pan will be flipped, depending on the position of the Infinity (ON/OFF)
- BACKLIGHT TIMER: The amount of time which needs to pass for the display to turn off (5 min./1 min./30 sec./ON)
- DIMMER CURVE: LINEAR/SCURVE/I SQUA/SQUARE









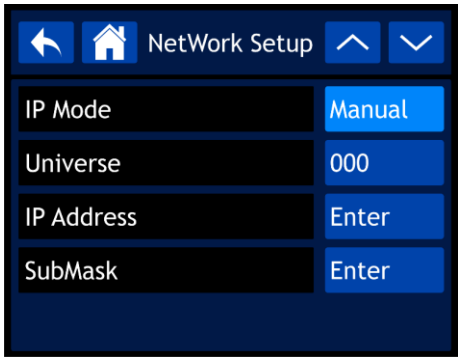
- PWM OPTION: 600Hz/1200Hz/2000Hz/4000Hz/6000Hz/15000Hz
- WDMX: Activate/deactivate Wireless DMX (ON/OFF)
- WIRELESS UNLINK: Terminate the connection between the Infinity and the transmitter (YES/NO)
- DMX FAIL: The Infinity's behavior in case of a DMX error. There are 2 options: OFF (output blackout) and HOLD (the Infinity will use the latest properly working DMX signal which ensures undisrupted performance)
- FANS: Energy saving mode (AUTO/SILENT/FULL)
- BL. O. P/T MOVE: Output blackout when Pan/Tilt are active (YES/NO)
- BL. O. COLOR MOVE: Output blackout during the color wheel movement (YES/NO)
- BL. O. GOBO MOVE: Output blackout during the gobo wheel movement (YES/NO)
- RESET USER HOURS: Reset the total operation time counter (YES/NO)
- FACTORY SETTINGS: Restore the factory default settings (YES/NO)

07) There are also 5 submenus which offer more advanced settings than the ones listed above:
- NETWORK SETTINGS
- LOCK CODE
- TOUCH CALIBRATION
- SERVICE MENU
- RESET FUNCTION

3.1. Network Settings

With this menu you can set the network settings.

01) If you have selected NETWORK SETTINGS, the display will show:



02) Use the control or the UP/DOWN buttons to toggle through the 4 submenus.
03) Once you have selected the desired submenu, press the control to confirm your choice.
04) Turn the control in order to adjust the values.
05) Press the control to save your settings.
06) The available submenus are:
- IP MODE: MANUAL/DHCP
- UNIVERSE: Set the universe (000-255)
- IP ADDRESS: Set the IP address
- SUBMASK: Set the submask

07) If you have selected one of the 3 last options (UNIVERSE, IP ADDRESS or SUBMASK), the display will show:







08) Turn the control in order to select/adjust the values and press the control to confirm your choice.
09) Alternatively, type the values in, using the buttons on the screen.
10) Select OK to save your settings.

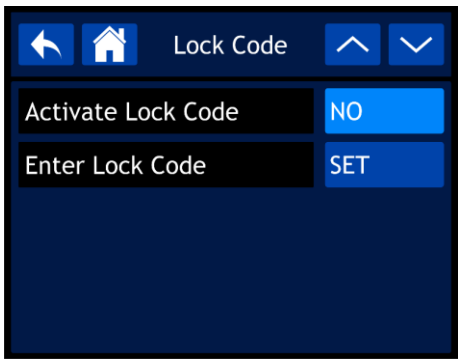
3.2. Lock Code

With this menu you can set the safety code.

01) If you have selected LOCK CODE, the display will show:



02) Turn and press the control in order to insert the **master code: 6468**.
03) Alternatively, you can type the values in, using the buttons on the screen.
04) Select OK to confirm. The display will show:



05) Use the control or the UP/DOWN buttons to toggle through the 2 submenus.
06) Once you have selected the desired submenu, press the control to confirm your choice.
07) Turn the control in order to adjust the values.
08) Press the control to save your settings.
09) The available submenus are:
    - ACTIVATE LOCK CODE: YES/NO
    - ENTER LOCK CODE

10) If you have selected ENTER LOCK CODE, the display will show:

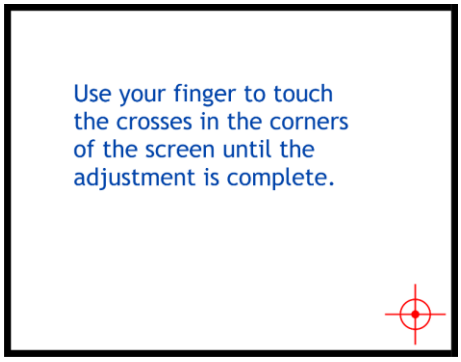


11) Turn and press the control in order to create your personal code.
12) Alternatively, you can type the values in, using the buttons on the screen.
13) Select OK to confirm. You can now use your personal code when unlocking the display.
14) If you forget your personal code, you can still insert the **master code: 6468** which overrides the personal code.

3.3. Touch Calibration

With this menu you can calibrate the touch screen.

01) If you have selected TOUCH CALIBRATION, the display will show:



02) Follow the instructions on the display until the touch screen calibration is complete.

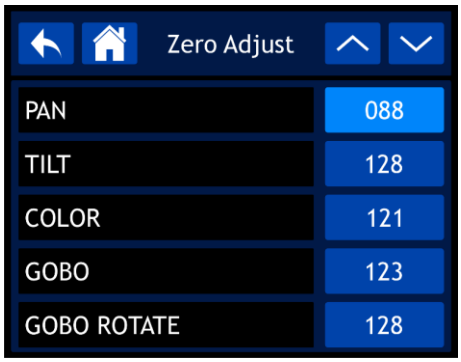
3.4. Service Menu

With this menu you can fine-tune various function-related discrepancies and imperfections, according to your preferences.

01) If you have selected SERVICE MENU, the display will show:



02) Turn and press the control in order to insert the **master code: 6468**.
03) Alternatively, you can type the values in, using the buttons on the screen.
04) Select OK to confirm. The display will show:



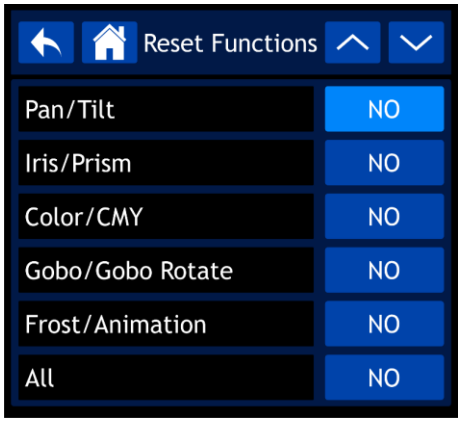
05) Use the control or the UP/DOWN buttons to toggle through the 30 functions.
06) Once you have selected the desired function, press the control to confirm your choice.
07) Turn the control in order to adjust the values.
08) Press the control to save your settings.
09) The available functions are:
    - PAN
    - TILT
    - COLOR
    - GOBO
    - GOBO ROTATE

- GOBO2
- FOCUS-GOBO2
- FOCUS-GOBO
- ZOOM
- PRISM1
- PRISM2
- PRISM2 ROT
- IRIS
- FROST
- CYAN
- MAGENTA
- YELLOW
- CTO
- ANIMATION
- DIMMER1
- DIMMER2
- DIMMER3
- DIMMER4
- DIMMER5
- MAC4
- MAC5
- MAC6
- RDM ID4
- RDM ID5
- RDM ID6

3.5. Reset Function

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

01) If you have selected RESET FUNCTION, the display will show:



02) Use the control or the UP/DOWN buttons to toggle through the 6 functions:
- PAN/TILT: Pan/Tilt reset
- IRIS/PRISM: prism reset
- COLOR/CMY: Color wheel reset
- GOBO/GOBO ROTATE: Gobo wheel reset
- FROST/ANIMATION: Frost/animation wheel reset
- ALL: Complete settings reset

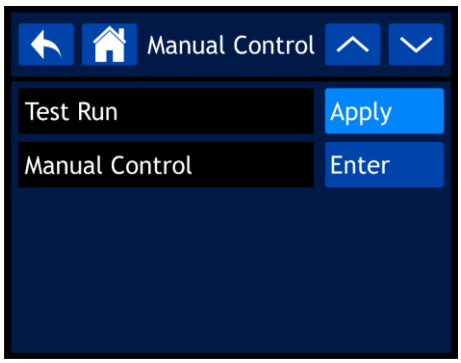
03) Once you have selected the desired function, press the control to confirm your choice.
04) Turn the control in order to select YES or NO.
05) Press the control to confirm your choice.
06) If you have selected YES, the function in question will be reset.

4. Manual Control

With this menu you can set Manual mode.

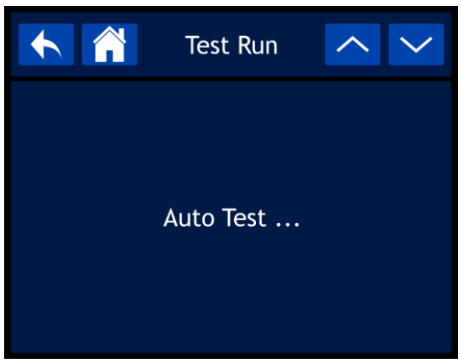
01) In main menu, select 

and enter the menu. The display will show:



02) Use the control or the UP/DOWN buttons to toggle through the 2 submenus.
03) Once you have selected the desired submenu, press the control to confirm your choice.
04) Turn the control in order to adjust the values.
05) Press the control to save your settings.
06) The available submenus are:
    - TEST RUN
    - MANUAL CONTROL

07) If you have selected TEST RUN, the display will show:



08) The device will now test its functions.
09) If you have selected MANUAL CONTROL, the display will show:

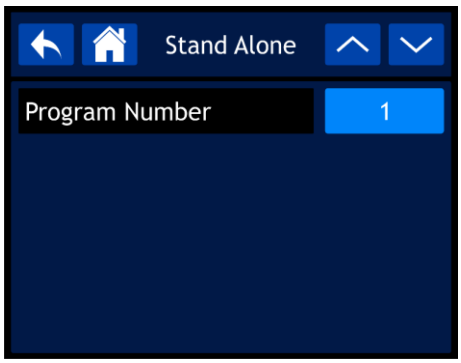


10) Use the control or the UP/DOWN buttons to toggle through the 37 functions. The functions correspond with the functions listed in the DMX section, 37 Channels. See page 41 for more information.
11) Once you have selected the desired function, press the control to confirm your choice.
12) Turn the control in order to adjust the values. The adjustment range is between 000-255
13) Press the control to save your settings.

5. Stand-Alone
With this menu you can set your desired built-in program.

01) In main menu, select 

and enter the menu. The display will show:

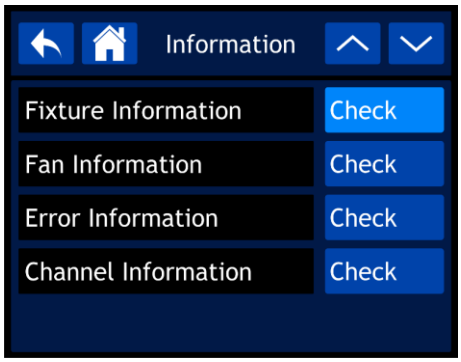


02) Press the control and then turn it in order to select one of the 9 built-in programs.
03) Press the control to confirm your choice. The device will now run the selected program.

6. Information
With this menu you can view the device's parameters.

01) In main menu, select 

and enter the menu. The display will show:

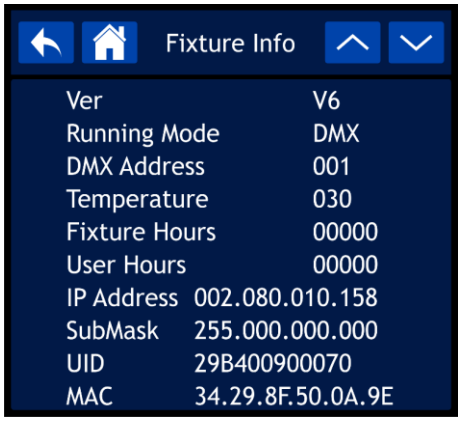


02) Use the control or the UP/DOWN buttons to toggle through the 4 submenus.
03) Once you have selected the desired submenu, press the control to confirm your choice.
04) The available submenus are:
- FIXTURE INFORMATION
- FAN INFORMATION
- ERROR INFORMATION
- CHANNEL INFORMATION

6.1. Fixture Information

With this menu you can view the currently installed software version, operation mode, DMX address and many other crucial parameters.

01) If you have selected FIXTURE INFORMATION, the display will show:

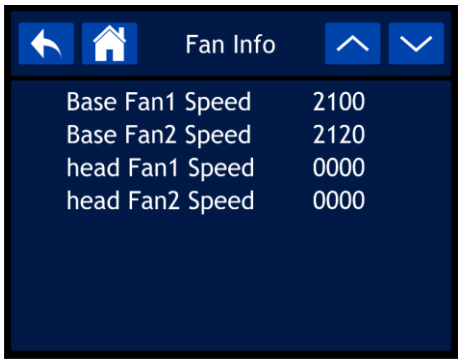


02) Use the control or the UP/DOWN buttons to toggle through 2 screens, in order to see all pieces of information.

6.2. Fan Information

With this menu you can view the status of the fans.

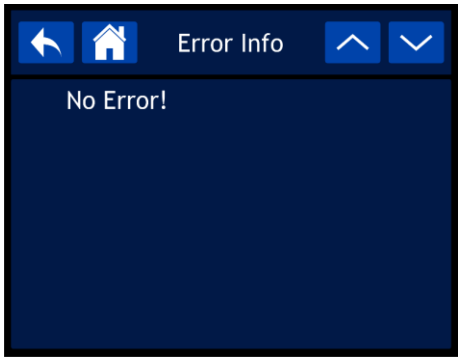
01) If you have selected FAN INFORMATION, the display will show:



6.3. Error Information

With this menu you can view any present errors.

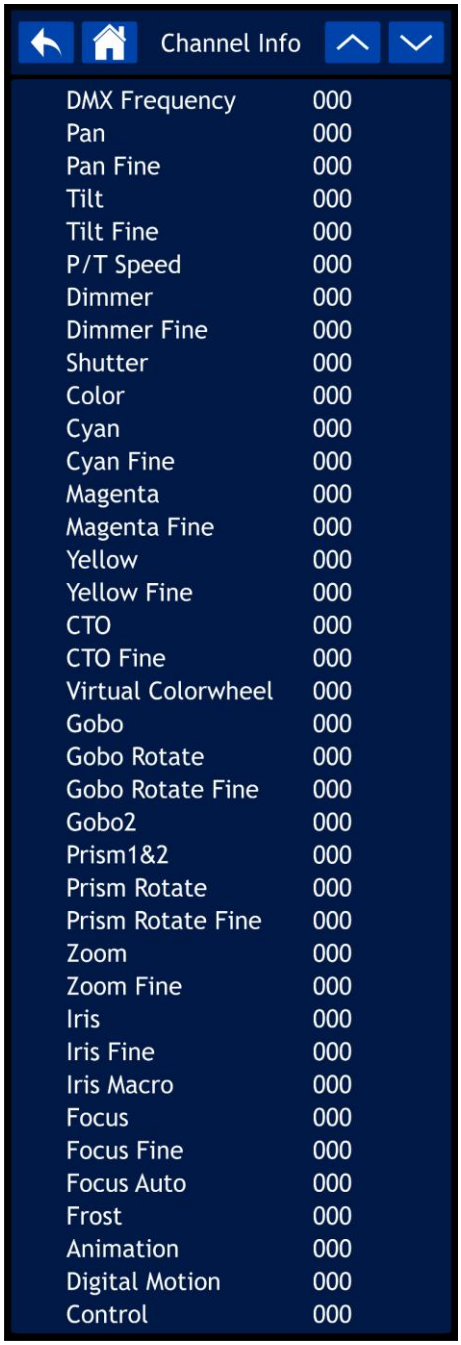
01) If you have selected ERROR INFORMATION, the display will show:



6.4. Channel Information

With this menu you can view all the channel information.

01) If you have selected CHANNEL INFORMATION, the display will show:



02) Use the control or the UP/DOWN buttons to toggle through 2 screens, in order to see all pieces of information.

DMX Channels

Infinity Furion S401				Firmware Version V6.0			
Basic	**Advanced**	**Function**	**DMX**		**Default**	**Highlight**	**Snap**
1	1	Pan	0-255	0-540	128		
2	2	Pan 16bit	0-255	16bit adjustable			
3	3	Tilt	0-255	0-270	128		
4	4	Tilt 16bit	0-255	16bit adjustable			
	5	Pan/tilt speed	0-255	decreasing speed	0		
5	6	Dimmer	0-255	0-100%	0	255	
	7	Dimmer 16bit	0-255	16bit adjustable			
6	8	Strobe	0-3 4-7 8-76 77-145 146-215 216-255	Close Open Synchronized strobe, increasing speed Pulse strobe, increasing speed Random strobe, increasing speed On	6	6	
7	9	Color wheel	0-6 7-13 14-20 21-27 28-34 35-41 42-48 49-59 60-187 188-219 220-223 224-255	Open Color 1 (Red) Color 2 (Light Pink) Color 3 (Amber) Color 4 (Dark Lavender) Color 5 (Primary Green) Color 6 (Aquamarine) Color 7 (Congo Blue) Split color Negative scroll, decreasing speed Stop Positive scroll, increasing speed	0	0	yes
8	10	Cyan	0-255	0-100%	0	0	
	11	Cyan 16bit	0-255	16bit adjustable			
9	12	Magenta	0-255	0-100%	0	0	
	13	Magenta 16bit	0-255	16bit adjustable			
10	14	Yellow	0-255	0-100%	0	0	
	15	Yellow 16bit	0-255	16bit adjustable			
11	16	CTO	0-255	0-100%	0	0	
	17	CTO 16bit	0-255	16bit adjustable			
12	18	CMY macro	0-9 10-127 128-255	No function CMY color CMY macro, decreasing speed	0	0	

Infinity Furion S401			Firmware Version V6.0				
Basic	**Advanced**	**Function**	**DMX**		**Default**	**Highlight**	**Snap**
13	19	Rotating gobo wheel	0-8	Open	0	0	yes
			9-17	Gobo 1 (Asteroids)			
			18-26	Gobo 2 (Psycho)			
			27-35	Gobo 3 (Brushed)			
			36-44	Gobo 4 (Triangles)			
			45-53	Gobo 5 (Baroque)			
			54-63	Gobo 6 (Spiral)			
			64-73	Gobo 6 shaking, increasing speed			
			74-82	Gobo 5 shaking, increasing speed			
			83-91	Gobo 4 shaking, increasing speed			
			92-100	Gobo 3 shaking, increasing speed			
			101-109	Gobo 2 shaking, increasing speed			
			110-118	Gobo 1 shaking, increasing speed			
			119-127	Open			
			128-190	Positive scroll, decreasing speed			
			191-192	Stop			
			193-255	Negative scroll, increasing speed			
14	20	Gobo rotating	0-45	Gobo index	128		
			46-126	Positive rotating, decreasing speed			
			127-130	Stop			
			131-211	Negative rotating, increasing speed			
			212-255	Rotating back and forth			
	21	Gobo rotating 16bit	0-255	16bit adjustable index			
15	22	Static gobo wheel	0-6	Open	0		yes
			7-13	Gobo 1 (Circle)			
			14-20	Gobo 2 (Radial Lines)			
			21-27	Gobo 3 (Spokes)			
			28-34	Gobo 4 (Twist)			
			35-41	Gobo 5 (Organic)			
			42-48	Gobo 6 (Digi Blocks)			
			49-63	Gobo 7 (Vector)			
			64-70	Gobo 7 shaking, increasing speed			
			71-77	Gobo 6 shaking, increasing speed			
			78-84	Gobo 5 shaking, increasing speed			
			85-91	Gobo 4 shaking, increasing speed			
			92-98	Gobo 3 shaking, increasing speed			
			99-105	Gobo 2 shaking, increasing speed			
			106-112	Gobo 1 shaking, increasing speed			
			113-127	Open			
			128-190	Positive scroll, decreasing speed			
			191-192	Stop			
			193-255	Negative scroll, increasing speed			

Infinity Furion S401			Firmware Version V6.0				
Basic	**Advanced**	**Function**	**DMX**		**Default**	**Highlight**	**Snap**
16	23	Prism	0-4 5-127 128-255	No function Prism 1 effect (3-facet Circular) Prism 2 effect (5-facet Linear)	0		yes
17	24	Prism rotating	0-45 46-126 127-130 131-211 212-255	Prism index Positive rotating, decreasing speed Stop Negative rotating, increasing speed Rotating, back and forth	128		
	25	Prism rotating 16bit	0-255	16bit adjustable			
18	26	Zoom	0-255	Big to small	128		
	27	Zoom 16bit	0-255	16bit adjustable			
19	28	Iris	0-255	Big to small	0		
	29	Iris 16bit	0-255	16bit adjustable			
20	30	Iris macro	0-63 64-127 128-191 192-255	No function Auto change, increasing speed Slow zoom out, fast zoom in, increasing speed Slow zoom in, fast zoom out, increasing speed	0		
21	31	Focus	0-255	0-100%	128		
	32	Focus 16bit	0-255	16bit adjustable			
22	33	Auto focus	0 1-11 12-22 23-33 34-44 45-55 56-66 67-77 78-88 89-99 100-110 111-127 128-138 139-149 150-160 161-171 172-182 183-193 194-204 205-215 216-226 227-237 238-255	No function 0-5 meters, auto focus-gobo 1 6 meters, auto focus-gobo 1 7 meters, auto focus-gobo 1 8 meters, auto focus-gobo 1 9 meters, auto focus-gobo 1 10 meters, auto focus-gobo 1 12.5 meters, auto focus-gobo 1 15 meters, auto focus-gobo 1 17.5 meters, auto focus-gobo 1 20-60 meters, auto focus-gobo 1 auto detect distance-gobo1 0-5 meters, auto focus-gobo 2 6 meters, auto focus-gobo 2 7 meters, auto focus-gobo 2 8 meters, auto focus-gobo 2 9 meters, auto focus-gobo 2 10 meters, auto focus-gobo 2 12.5 meters, auto focus-gobo 2 15 meters, auto focus-gobo 2 17.5 meters, auto focus-gobo 2 20-60 meters, auto focus-gobo 2 auto detect distance-gobo 2	0		

Infinity Furion S401			Firmware Version V6.0				
Basic	**Advanced**	**Function**	**DMX**		**Default**	**Highlight**	**Snap**
23	34	Frost	0-255	0-100%	0		
24	35	Animation Wheel	0-1	No function	0		
			2-126	Positive rotating, decreasing speed			
			127-130	Stop			
			131-255	Negative rotating, increasing speed			
25	36	Digital motion FX	0-1	No function	0		
			2-128	Step mode, increasing speed			
			129-255	Fade mode, increasing speed			
26	37	Functions	0-5	No function	0		
			6-11	Pan Reverse			
			12-17	Pan Normal			
			18-23	Tilt Reverse			
			24-29	Tilt Normal			
			30-35	Pan Tilt Swop			
			36-41	Pan Tilt Normal			
			42-47	BO PT on			
			48-53	BO PT off			
			54-59	BO Color on			
			60-65	BO Color off			
			66-71	BO Gobo on			
			72-77	BO Gobo off			
			78-83	Fans Auto			
			84-89	Fans Full			
			90-95	Fans Silent			
			96-101	DMX Fail: Hold			
			102-107	DMX Fail: Off			
			108-113	Dimmer Linear			
			114-119	Dimmer Square			
			120-125	Dimmer I-Square			
			126-131	Dimmer - Scurve			
			132-137	PWM 600Hz			
			138-143	PWM 1200Hz			
			144-149	PWM 2000Hz			
			150-155	PWM 4000Hz			
			156-161	PWM 6000Hz			
			162-167	PWM 15000Hz			
			168-173	Reset P/T			
			174-179	Reset Iris/Prism			
			180-185	Reset Color/CMY			
			186-191	Reset Gobo/Gobo rotate			
			192-203	No function			
			204-209	Reset Frost/Animation			
			210-215	Reset All			
			216-255	No function			

37 channels

Channel 1 – Horizontal movement (Pan)
Push 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 – Pan fine 16 bit

Channel 3 – Vertical movement (Tilt)
Push 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 4 – Tilt fine 16 bit

Channel 5 – PAN/TILT Speed

0-255	From fast to slow

Channel 6 – Master dimmer

0-255	Dimmer intensity, from OFF to full ON

Channel 7 – Dimmer fine 16 bit

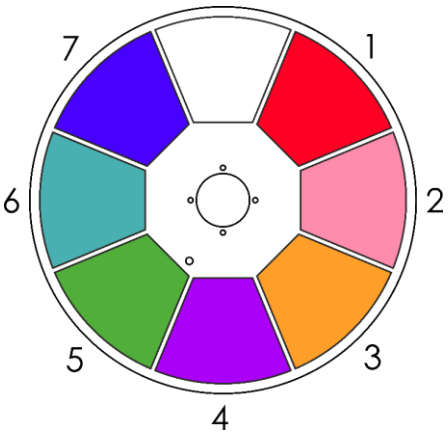
0-255	Dimmer intensity, from OFF to full ON

Channel 8 – Shutter/Strobe ⚠ CH6 must be open ⚠

0-3	Closed
4-7	Shutter open
8-76	Strobe flash, from low to high frequency
77-145	Pulse strobe, from low to high frequency
146-215	Random strobe, from low to high frequency
216-255	Shutter open

Channel 9 – Color wheel ⚠ CH6 and CH8 must be open ⚠

0-6	White
7-13	Color 1 (Red)
14-20	Color 2 (Light Pink)
21-27	Color 3 (Amber)
28-34	Color 4 (Dark Lavender)
35-41	Color 5 (Primary Green)
42-48	Color 6 (Aquamarine)
49-59	Color 7 (Congo Blue)
60-187	Gradual color adjustment
188-219	Counterclockwise color flow, from fast to slow
220-223	Stop
224-255	Clockwise color flow, from slow to fast



Channel 10 – Cyan Dimmer intensity ⚠ CH6 and CH8 must be open ⚠

0-255	Gradual adjustment Cyan from 0-100%

Channel 11 – Cyan Dimmer intensity 16 bit ⚠ CH6 and CH8 must be open ⚠

Channel 12 – Magenta Dimmer intensity ⚠ CH6 and CH8 must be open ⚠

0-255	Gradual adjustment Magenta from 0-100%

Channel 13 – Magenta Dimmer intensity 16 bit ⚠ CH6 and CH8 must be open ⚠

Channel 14 – Yellow Dimmer intensity ⚠ CH6 and CH8 must be open ⚠

0-255	Gradual adjustment Yellow from 0-100%

Channel 15 – Yellow Dimmer intensity 16 bit ⚠ CH6 and CH8 must be open ⚠

Channel 16 – CTO Dimmer intensity ⚠ CH6 and CH8 must be open ⚠

0-255	Gradual adjustment CTO from 0-100%

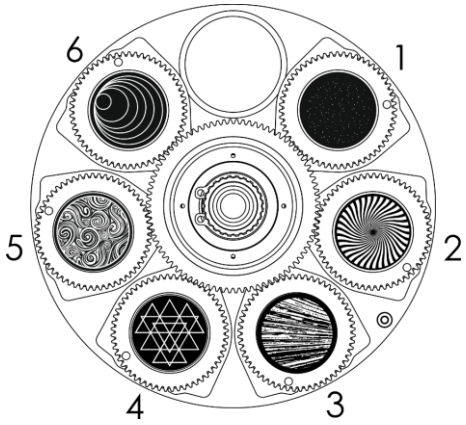
Channel 17 – CTO Dimmer intensity 16 bit ⚠ CH6 and CH8 must be open ⚠

Channel 18 – CMY macros ⚠ CH6 and CH8 must be open ⚠

0-9	Not functional
10-127	CMY colors
128-255	CMY macro, from fast to slow

Channel 19 – Rotating Gobo wheel
⚠ CH6 and CH8 must be open ⚠

0-8	Open
9-17	Gobo 1 (Asteroids)
18-26	Gobo 2 (Psycho)
27-35	Gobo 3 (Brushed)
36-44	Gobo 4 (Triangles)
45-53	Gobo 5 (Baroque)
54-63	Gobo 6 (Spiral)
64-73	Rotating Gobo 6 shake effect, from slow to fast
74-82	Rotating Gobo 5 shake effect, from slow to fast
83-91	Rotating Gobo 4 shake effect, from slow to fast
92-100	Rotating Gobo 3 shake effect, from slow to fast
101-109	Rotating Gobo 2 shake effect, from slow to fast
110-118	Rotating Gobo 1 shake effect, from slow to fast
119-127	Open
128-190	Clockwise gobo flow, from fast to slow
191-192	Stop
193-255	Counterclockwise gobo flow, from slow to fast



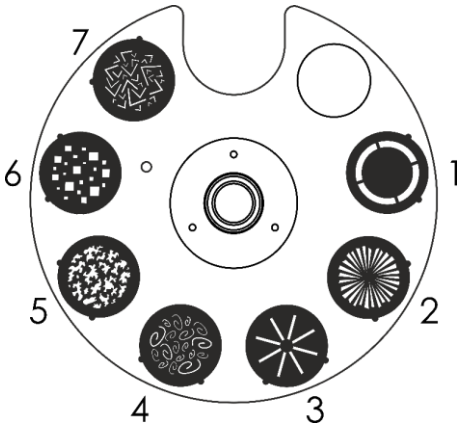
Channel 20 – Gobo rotation

0-45	Gobo indexing
46-126	Clockwise gobo rotation, from fast to slow
127-130	Stop
131-211	Counterclockwise gobo rotation, from slow to fast
212-255	Gobo wheel bounce effect, from small to big amplitude

Channel 21 – Gobo rotation 16 bit

Channel 22 – Static Gobo wheel

⚠ CH6 and CH8 must be open ⚠



0-6	Open
7-13	Gobo 1 (Circle)
14-20	Gobo 2 (Radial Lines)
21-27	Gobo 3 (Spokes)
28-34	Gobo 4 (Twist)
35-41	Gobo 5 (Organic)
42-48	Gobo 6 (Digi Blocks)
49-63	Gobo 7 (Vector)
64-70	Gobo 7 shake effect, from slow to fast
71-77	Gobo 6 shake effect, from slow to fast
78-84	Gobo 5 shake effect, from slow to fast
85-91	Gobo 4 shake effect, from slow to fast
92-98	Gobo 3 shake effect, from slow to fast
99-105	Gobo 2 shake effect, from slow to fast
106-112	Gobo 1 shake effect, from slow to fast
113-127	Open
128-190	Clockwise gobo flow, from fast to slow
191-192	Stop
193-255	Counterclockwise gobo flow, from slow to fast

Channel 23 – Prism

0-4	Not functional
5-127	Prism effect 1
128-255	Prism effect 2

Channel 24 – Prism rotation

0-45	Prism indexing
46-126	Clockwise prism rotation, from fast to slow
127-130	Stop
131-211	Counterclockwise prism rotation, from slow to fast
212-255	Prism bounce effect, from small to big amplitude

Channel 25 – Prism rotation 16 bit

Channel 26 – Zoom

0-255	Zoom adjustment, from big to small

Channel 27 – Zoom 16 bit

Channel 28 – Iris

0-255	Iris adjustment, from big to small

Channel 29 – Iris 16 bit

Channel 30 – Iris macros ⚠ CH6 and CH8 must be open ⚠

0-63	Not functional
64-127	Macro switch, from slow to fast
128-191	Slow zoom out/fast zoom in, from slow to fast
192-255	Slow zoom in/fast zoom out, from slow to fast

Channel 31 – Focus

0-255	Focus adjustment

Channel 32 – Focus 16 bit

Channel 33 – Auto focus

0	Not functional
1-11	0-5 meters, auto focus gobo 1
12-22	6 meters, auto focus gobo 1
23-33	7 meters, auto focus gobo 1
34-44	8 meters, auto focus gobo 1
45-55	9 meters, auto focus gobo 1
56-66	10 meters, auto focus gobo 1
67-77	12,5 meters, auto focus gobo 1
78-88	15 meters, auto focus gobo 1
89-99	17,5 meters, auto focus gobo 1
100-110	20-60 meters, auto focus gobo 1
111-127	Auto detect distance gobo1
128-138	0-5 meters, auto focus gobo 2
139-149	6 meters, auto focus gobo 2
150-160	7 meters, auto focus gobo 2
161-171	8 meters, auto focus gobo 2
172-182	9 meters, auto focus gobo 2
183-193	10 meters, auto focus gobo 2
194-204	12,5 meters, auto focus gobo 2
205-215	15 meters, auto focus gobo 2
216-226	17,5 meters, auto focus gobo 2
227-237	20-60 meters, auto focus gobo 2
238-255	Auto detect distance gobo 2

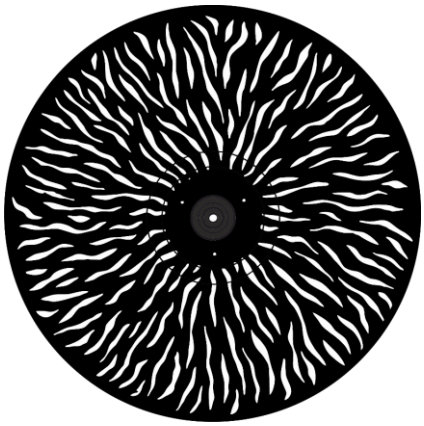
Channel 34 – Frost

0-255	Frost effect, 0-100%

Channel 35 – Animation wheel

⚠ CH6 and CH8 must be open ⚠

0-1	Not functional
2-126	Clockwise rotation, from fast to slow
127-130	Stop
131-255	Counterclockwise rotation, from slow to fast



Channel 36 – Digital motion FX ⚠ CH6 and CH8 must be open ⚠

0-1	Not functional
2-128	Step mode, from slow to fast
129-255	Fade mode, from slow to fast

Channel 37 – Functions	
0-5	Not functional
6-11	Pan reverse
12-17	Pan normal
18-23	Tilt reverse
24-29	Tilt normal
30-35	Pan/Tilt swop
36-41	Pan/Tilt normal
42-47	P/T blackout ON
48-53	P/T blackout OFF
54-59	Color wheel blackout ON
60-65	Color wheel blackout OFF
66-71	Rotating gobo wheel blackout ON
72-77	Rotating gobo wheel blackout OFF
78-83	Fans: Auto
84-89	Fans: Full
90-95	Fans: Silent
96-101	DMX fail: Hold
102-107	DMX fail: OFF
108-113	Linear dimmer mode
114-119	Square dimmer mode
120-125	I-Square dimmer mode
126-131	S-curve dimmer mode
132-137	PWM 600Hz
138-143	PWM 1200Hz
144-149	PWM 2000Hz
150-155	PWM 4000Hz
156-161	PWM 6000Hz
162-167	PWM 15000Hz
168-173	Pan/Tilt reset
174-179	Iris/Prism reset
180-185	Color wheel/CMY reset
186-191	Gobo wheel/Gobo rotation reset
192-203	Not functional
204-209	Frost/Animation wheel reset
210-215	Reset all
216-255	Not functional

26 channels

Channel 1 – Horizontal movement (Pan)
Push 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 – Pan fine 16 bit

Channel 3 – Vertical movement (Tilt)
Push 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 4 – Tilt fine 16 bit

Channel 5 – Master dimmer

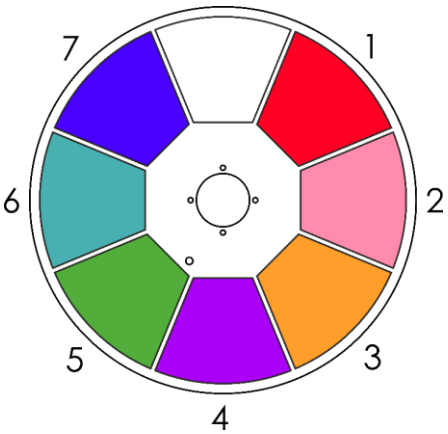
0-255	Dimmer intensity, from OFF to full ON

Channel 6 – Shutter/Strobe ⚠ CH5 must be open ⚠

0-3	Closed
4-7	Shutter open
8-76	Strobe flash, from low to high frequency
77-145	Pulse strobe, from low to high frequency
146-215	Random strobe, from low to high frequency
216-255	Shutter open

Channel 7 – Color wheel ⚠ CH5 and CH6 must be open ⚠

0-6	White
7-13	Color 1 (Red)
14-20	Color 2 (Light Pink)
21-27	Color 3 (Amber)
28-34	Color 4 (Dark Lavender)
35-41	Color 5 (Primary Green)
42-48	Color 6 (Aquamarine)
49-59	Color 7 (Congo Blue)
60-187	Gradual color adjustment
188-219	Counterclockwise color flow, from fast to slow
220-223	Stop
224-255	Clockwise color flow, from slow to fast



Channel 8 – Cyan Dimmer intensity ⚠ CH5 and CH6 must be open ⚠

0-255	Gradual adjustment Cyan from 0-100%

Channel 9 – Magenta Dimmer intensity ⚠ CH5 and CH6 must be open ⚠

0-255	Gradual adjustment Magenta from 0-100%

Channel 10 – Yellow Dimmer intensity ⚠ CH5 and CH6 must be open ⚠

0-255	Gradual adjustment Yellow from 0-100%

Channel 11 – CTO Dimmer intensity ⚠ CH5 and CH6 must be open ⚠

0-255	Gradual adjustment CTO from 0-100%

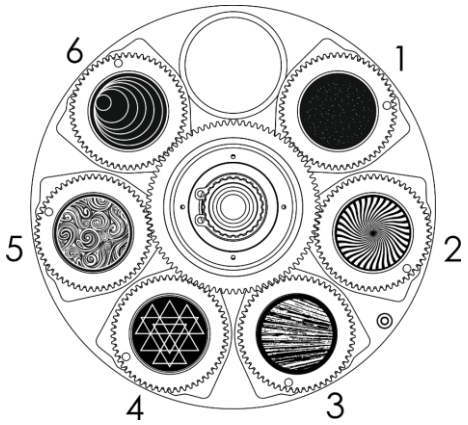
Channel 12 – CMY macros ⚠ CH5 and CH6 must be open ⚠

0-9	Not functional
10-127	CMY colors
128-255	CMY macro, from fast to slow

Channel 13 – Rotating Gobo wheel

⚠ CH5 and CH6 must be open ⚠

0-8	Open
9-17	Gobo 1 (Asteroids)
18-26	Gobo 2 (Psycho)
27-35	Gobo 3 (Brushed)
36-44	Gobo 4 (Triangles)
45-53	Gobo 5 (Baroque)
54-63	Gobo 6 (Spiral)
64-73	Rotating Gobo 6 shake effect, from slow to fast
74-82	Rotating Gobo 5 shake effect, from slow to fast
83-91	Rotating Gobo 4 shake effect, from slow to fast
92-100	Rotating Gobo 3 shake effect, from slow to fast
101-109	Rotating Gobo 2 shake effect, from slow to fast
110-118	Rotating Gobo 1 shake effect, from slow to fast
119-127	Open
128-190	Clockwise gobo flow, from fast to slow
191-192	Stop
193-255	Counterclockwise gobo flow, from slow to fast



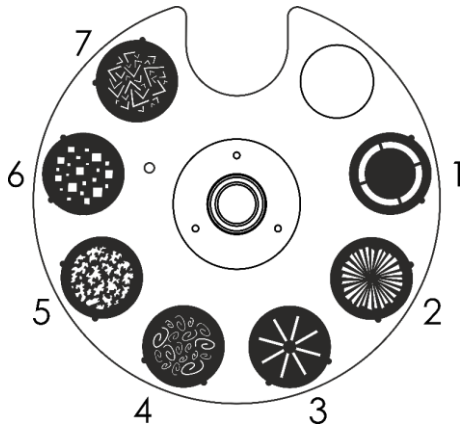
Channel 14 – Gobo rotation

0-45	Gobo indexing
46-126	Clockwise gobo rotation, from fast to slow
127-130	Stop
131-211	Counterclockwise gobo rotation, from slow to fast
212-255	Gobo wheel bounce effect, from small to big amplitude

Channel 15 – Static Gobo wheel

⚠ CH5 and CH6 must be open ⚠

0-6	Open
7-13	Gobo 1 (Circle)
14-20	Gobo 2 (Radial Lines)
21-27	Gobo 3 (Spokes)
28-34	Gobo 4 (Twist)
35-41	Gobo 5 (Organic)
42-48	Gobo 6 (Digi Blocks)
49-63	Gobo 7 (Vector)
64-70	Gobo 7 shake effect, from slow to fast
71-77	Gobo 6 shake effect, from slow to fast
78-84	Gobo 5 shake effect, from slow to fast
85-91	Gobo 4 shake effect, from slow to fast
92-98	Gobo 3 shake effect, from slow to fast
99-105	Gobo 2 shake effect, from slow to fast
106-112	Gobo 1 shake effect, from slow to fast
113-127	Open
128-190	Clockwise gobo flow, from fast to slow
191-192	Stop
193-255	Counterclockwise gobo flow, from slow to fast



Channel 16 – Prism	
0-4	Not functional
5-127	Prism effect 1
128-255	Prism effect 2

Channel 17 – Prism rotation	
0-45	Prism indexing
46-126	Clockwise prism rotation, from fast to slow
127-130	Stop
131-211	Counterclockwise prism rotation, from slow to fast
212-255	Prism bounce effect, from small to big amplitude

Channel 18 – Zoom	
0-255	Zoom adjustment, from big to small

Channel 19 – Iris	
0-255	Iris adjustment, from big to small

Channel 20 – Iris macros ⚠ CH5 and CH6 must be open ⚠	
0-63	Not functional
64-127	Macro switch, from slow to fast
128-191	Slow zoom out/fast zoom in, from slow to fast
192-255	Slow zoom in/fast zoom out, from slow to fast

Channel 21 – Focus	
0-255	Focus adjustment

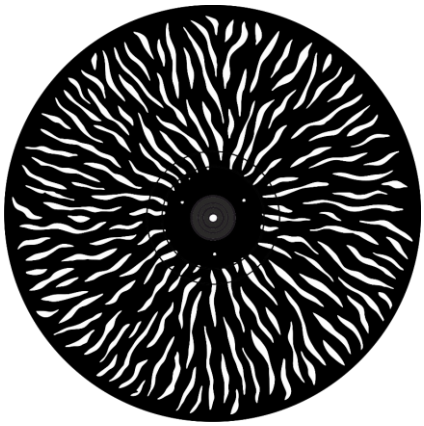
Channel 22 – Auto focus	
0	Not functional
1-11	0-5 meters, auto focus gobo 1
12-22	6 meters, auto focus gobo 1
23-33	7 meters, auto focus gobo 1
34-44	8 meters, auto focus gobo 1
45-55	9 meters, auto focus gobo 1
56-66	10 meters, auto focus gobo 1
67-77	12,5 meters, auto focus gobo 1
78-88	15 meters, auto focus gobo 1
89-99	17,5 meters, auto focus gobo 1
100-110	20-60 meters, auto focus gobo 1
111-127	Auto detect distance gobo1
128-138	0-5 meters, auto focus gobo 2
139-149	6 meters, auto focus gobo 2
150-160	7 meters, auto focus gobo 2
161-171	8 meters, auto focus gobo 2
172-182	9 meters, auto focus gobo 2
183-193	10 meters, auto focus gobo 2
194-204	12,5 meters, auto focus gobo 2
205-215	15 meters, auto focus gobo 2
216-226	17,5 meters, auto focus gobo 2
227-237	20-60 meters, auto focus gobo 2
238-255	Auto detect distance gobo 2

Channel 23 – Frost	
0-255	Frost effect, 0-100%

Channel 24 – Animation wheel

⚠ CH5 and CH6 must be open ⚠

0-1	Not functional
2-126	Clockwise rotation, from fast to slow
127-130	Stop
131-255	Counterclockwise rotation, from slow to fast



Channel 25 – Digital motion FX ⚠ CH5 and CH6 must be open ⚠

0-1	Not functional
2-128	Step mode, from slow to fast
129-255	Fade mode, from slow to fast

Channel 26 – Functions

0-5	Not functional
6-11	Pan reverse
12-17	Pan normal
18-23	Tilt reverse
24-29	Tilt normal
30-35	Pan/Tilt swop
36-41	Pan/Tilt normal
42-47	P/T blackout ON
48-53	P/T blackout OFF
54-59	Color wheel blackout ON
60-65	Color wheel blackout OFF
66-71	Rotating gobo wheel blackout ON
72-77	Rotating gobo wheel blackout OFF
78-83	Fans: Auto
84-89	Fans: Full
90-95	Fans: Silent
96-101	DMX fail: Hold
102-107	DMX fail: OFF
108-113	Linear dimmer mode
114-119	Square dimmer mode
120-125	I-Square dimmer mode
126-131	S-curve dimmer mode
132-137	PWM 600Hz
138-143	PWM 1200Hz
144-149	PWM 2000Hz
150-155	PWM 4000Hz
156-161	PWM 6000Hz
162-167	PWM 15000Hz
168-173	Pan/Tilt reset
174-179	Iris/Prism reset
180-185	Color wheel/CMY reset
186-191	Gobo wheel/Gobo rotation reset
192-203	Not functional
204-209	Frost/Animation wheel reset
210-215	Reset all
216-255	Not functional

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 Infinity S401 Spot 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.

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.



Fig. 09

Replacing a Gobo From the Rotating Gobo Wheel

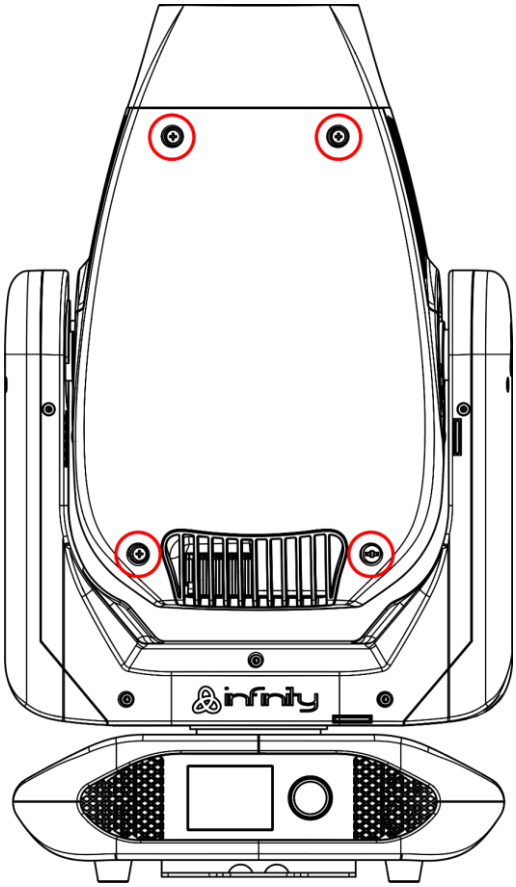


Fig. 10

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.

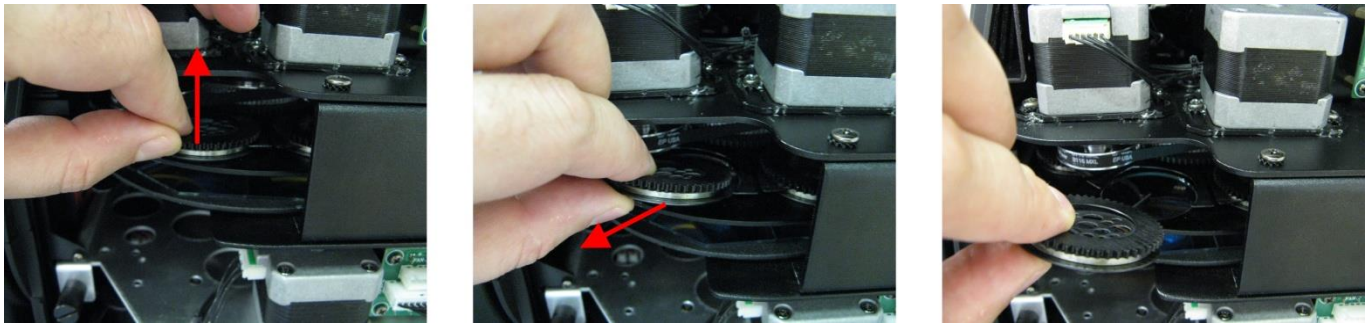


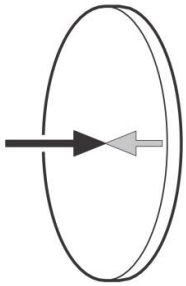
Fig. 11

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

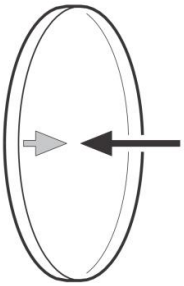
Coated glass gobos are inserted with the coating against the rim of the holder (away from the spring). Textured gobos are inserted with the smooth side against the spring. This provides the best results when combining rotating gobos.

Coated side



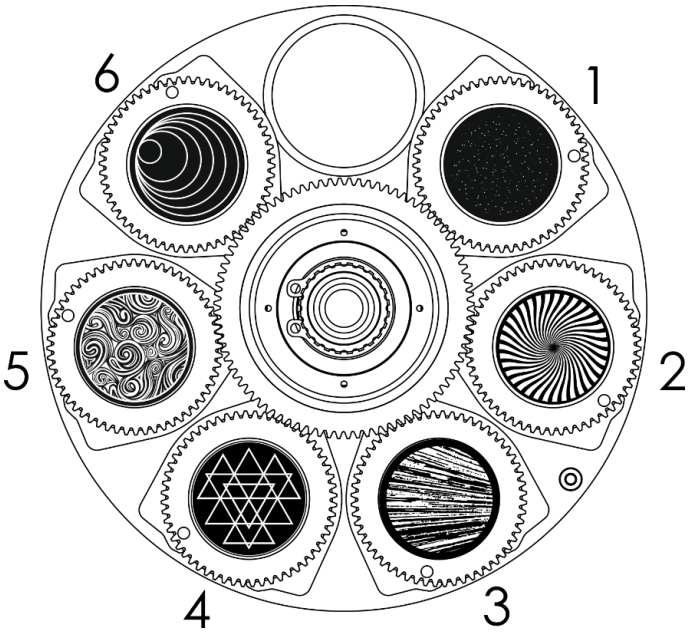
When an object is held up to the coated side, there is no space between the object and its reflection. The back edge of the gobo cannot be seen when looking through the coated side.

Uncoated side

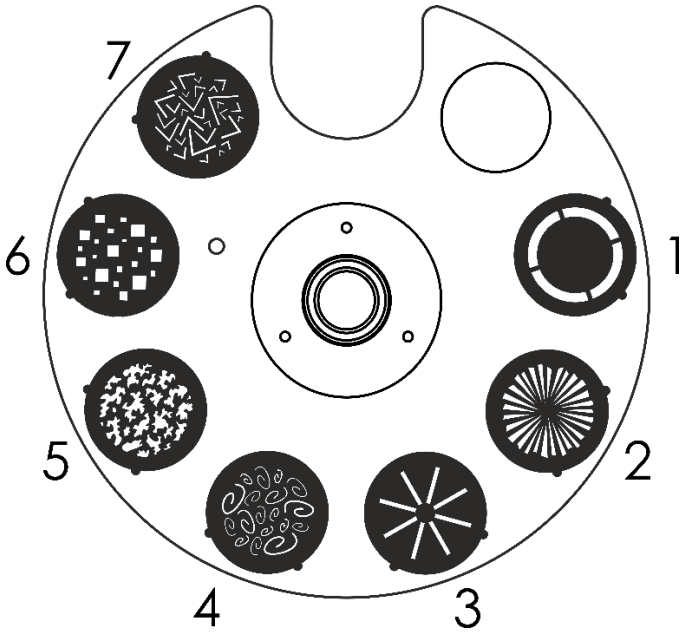


When an object is held up to the uncoated side, there is a space between the object and its reflection. The back edge of the gobo can be seen when looking through the uncoated side.

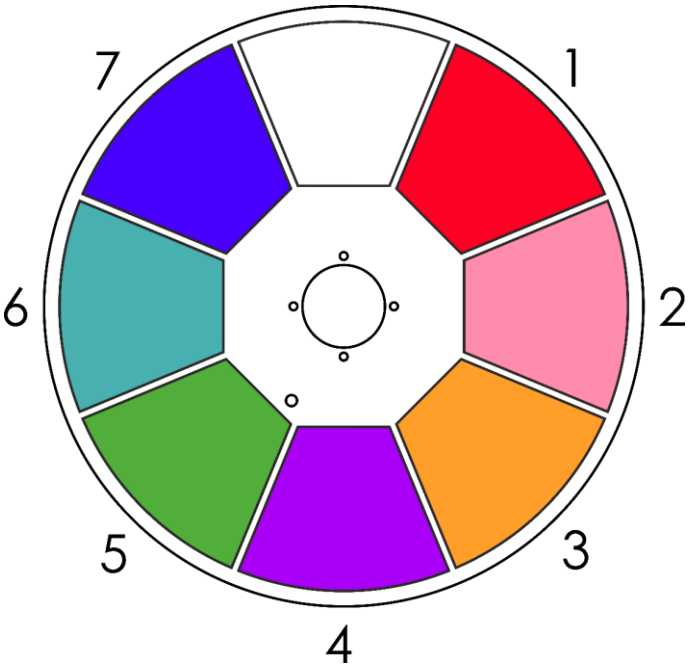
Rotating and Static Gobo Wheel, Color Wheel and Animation Wheel



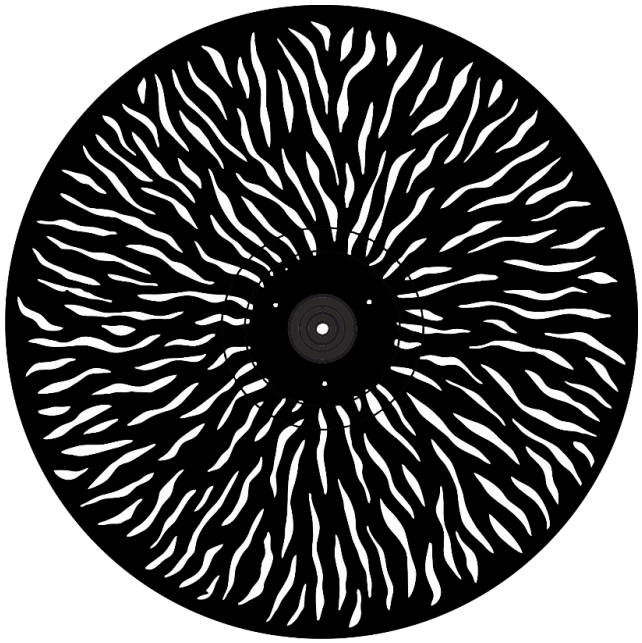
Rotating gobo wheel



Static gobo wheel



Color wheel



Animation 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 LEDs, the fuse.

01) Power supply. Check if the unit is plugged into an appropriate power supply.
02) The LEDs. Return the device.
03) The fuse. Replace the fuse. See page 50 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
	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
	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
No light or LEDs cut out intermittently	Fixture is too hot	• Allow the fixture to cool down • Clean the fan • Make sure air vents in control panel 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

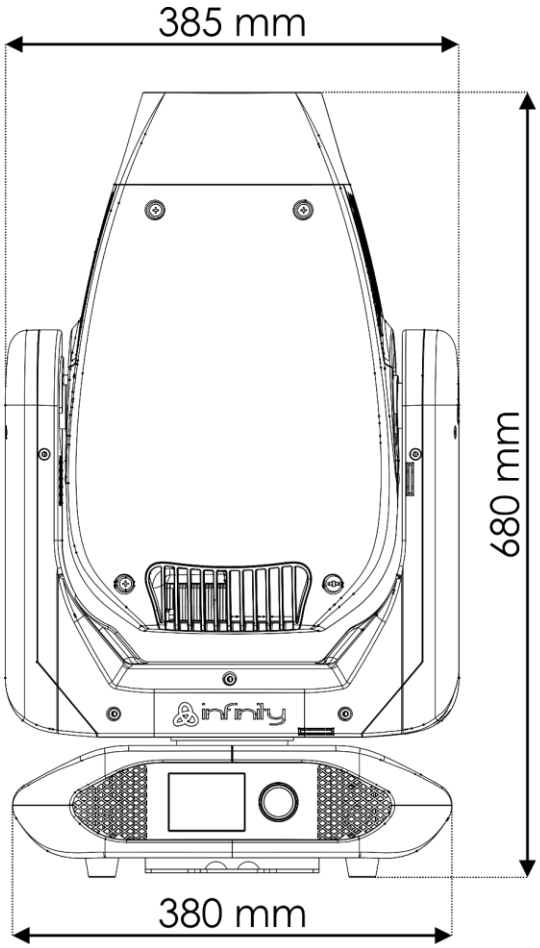
Model:	Infinity S401 Spot
Input voltage:	100-240V AC, 50/60Hz
Power consumption:	610W (full output)
DMX linking:	30pcs
Fuse:	F12AL/250V
Dimensions:	385 x 284 x 680 mm (LxWxH)
Weight:	28,9 kg
Operating and Programming:	
Signal pin OUT:	Pin 1 (earth), pin 2 (-), pin 3 (+), pin 4 (N/C), pin 5 (N/C)
DMX Mode:	Basic (26 channels), Advance (37 channels), User (up to 37 channels)
Signal input:	5-pin XLR IN
Signal output:	5-pin XLR OUT
Electro-mechanical effects:	
Light source:	1 x 350W White LED
Lux @ 5m 6°:	34442
Lux @ 5m 30°:	2205
Color temperature:	7500K
Beam angle:	6° - 30°
Onboard:	Battery-powered, fixture orientated touch display
Motorized zoom:	8, 16 bit
Motorized iris:	0-100%
Focus:	Motorized auto focus
Dimmer:	16 bit, 0-100%
Strobe:	0-20Hz
CMY:	0-100%
CTO:	0-100%
Pan:	540°
Tilt:	270°
Pan/Tilt resolution:	16 bit
Special:	Fixture orientated auto pan invert
Rotating gobo wheel:	6 glass gobos + open
Static gobo wheel:	7 metal gobos + open
Gobo rotation:	Bi-directional
Gobo functions:	Gobo-flow effect, Gobo shake
Gobo index:	8, 16 bit
Gobo size:	Glass gobo: **25,9** mm (gobo size); **22,94** mm (image diameter); **1,1** mm (gobo thickness)
Color wheel:	7 dichroic filters + white
Color functions:	Split colors, Rainbow-flow effect, CMY macros
Prisms:	3-facet circular prism & 5-facet linear rotating prism
Animation:	Continuously bi-rotating flame wheel & digital motion FX
Frost filter:	Yes
Selectable PWM:	0,6/1,2/2/4/6/15 kHz
Housing:	Metal & flame-retardant plastic
IP rating:	IP20
DMX control:	via standard DMX controller
Onboard:	LCD display with gravity sensor
Color:	Black
Control modes:	Stand-Alone, Manual, DMX-512, W-DMX, ArtNet
Connections:	Dedicated PowerCON True1 & RJ45 data connector
Control protocol:	DMX, W-DMX, RDM, sACN, ArtNet
Wireless DMX:	Wireless Solutions Sweden
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

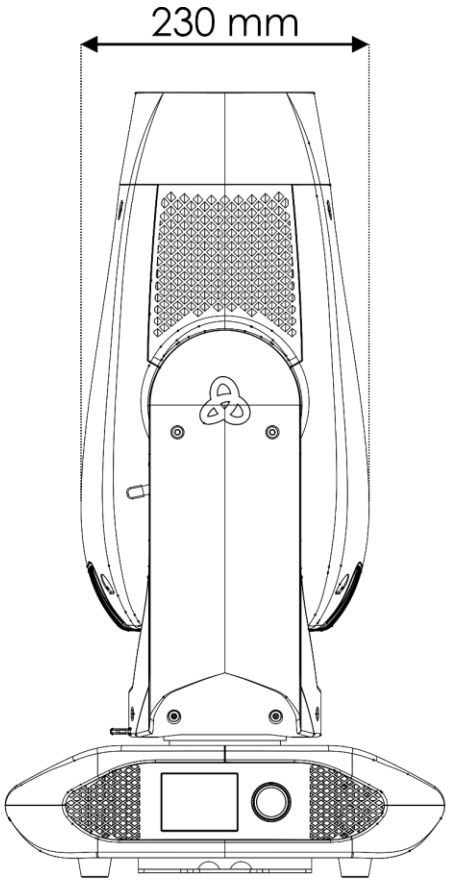
Design and product specifications are subject to change without prior notice.

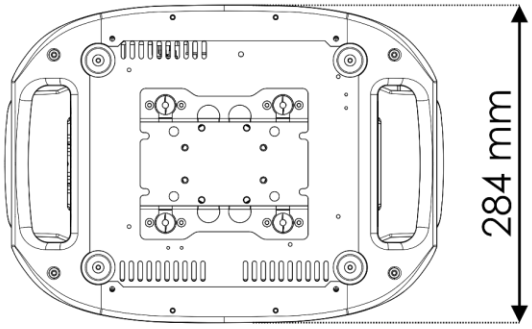
CE

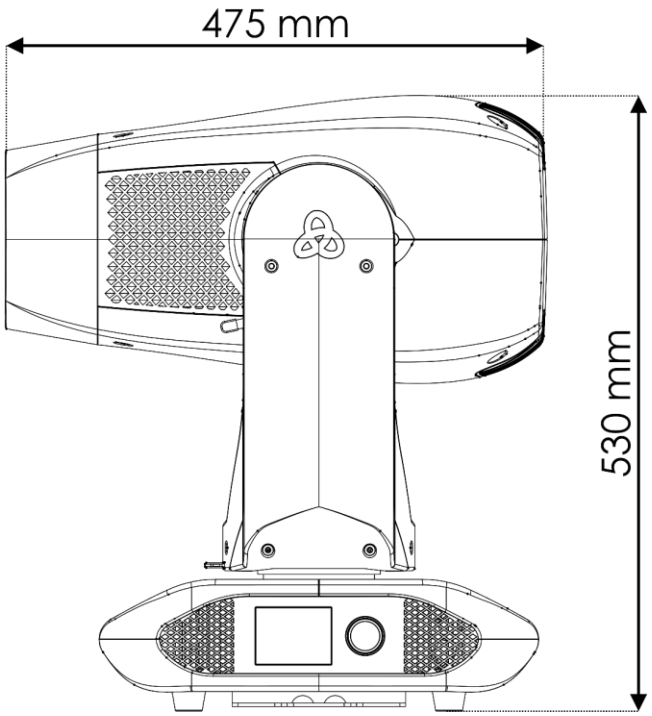
Website: www.highlite.com
Email: service@highlite.com

Dimensions

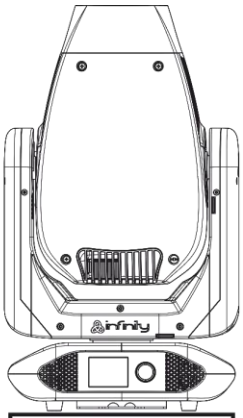


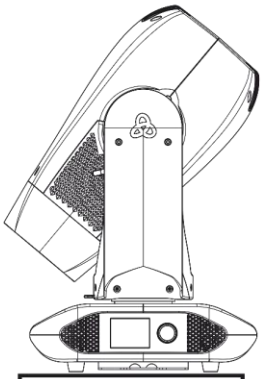


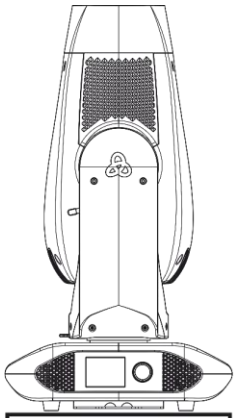


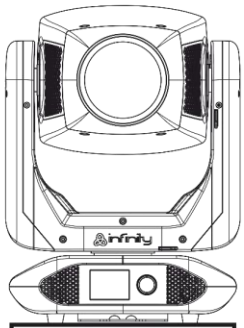


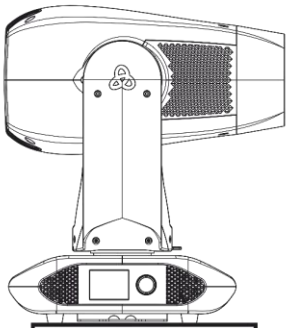
Moving Head Position / DMX Values

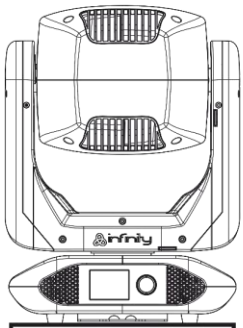

Pan 127 - Tilt 127

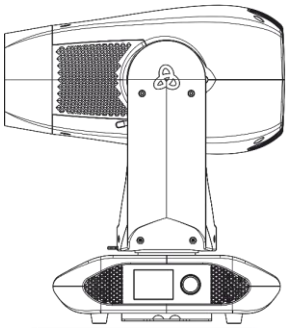

Pan 0 - Tilt 0

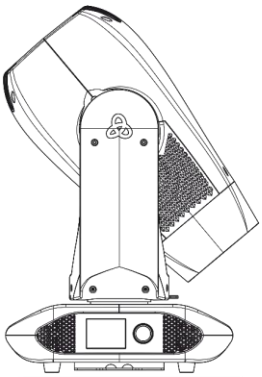

Pan 0 - Tilt 127

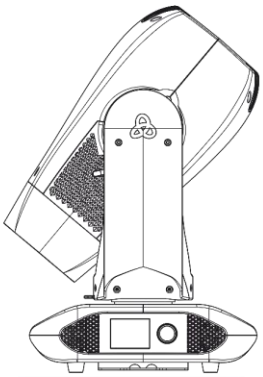

Pan 42 - Tilt 45

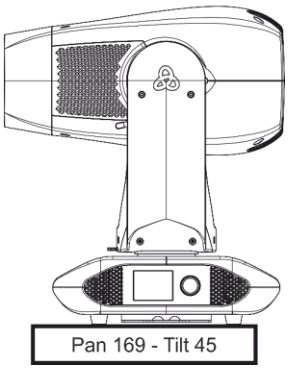

Pan 85 - Tilt 45

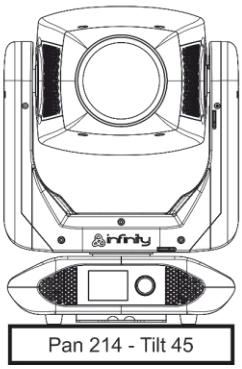

Pan 127 - Tilt 45

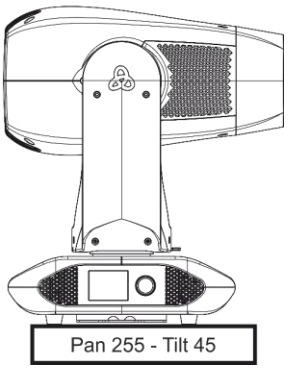

Pan 0 - Tilt 45


Pan 0 - Tilt 255


Pan 255 - Tilt 255


Pan 169 - Tilt 45


Pan 214 - Tilt 45


Pan 255 - Tilt 45

©2020 Infinity