

ENGLISH

Infinity iM-2515

V3

Ordercode: 41560

Table of contents

Warning	2
Safety Instructions	2
Operating Determinations	4
Rigging	4
Connection with the mains.....	5
Return Procedure.....	6
Claims.....	6
Description of the device	7
Frontside.....	8
Backside	9
Installation	9
Set Up and Operation	9
Control Modes.....	10
One Infinity (Stand-alone).....	10
Multiple Infinities (Master/Slave control).....	10
Multiple Infinities (DMX control).....	11
Multiple Infinities (ArtNet control).....	12
Fixture Linking.....	13
Data Cabling.....	13
Control Panel.....	14
Control Mode	14
DMX Addressing.....	14
Menu Overview.....	15
Main Menu Options.....	17
1. DMX Addressing.....	17
1.1. DMX settings	17
1.2. ArtNet settings (ArtNet + DMX mode)	18
2. Edit Mode	18
3. Settings Menu.....	19
3.1. Color Balance	19
3.2. Life Time.....	20
3.2.1. Set Password	20
3.3. Network Settings	20
3.4. Reset	21
4. Built-in Programs.....	21
5. Test Menu	22
6. System information.....	23
DMX Channels.....	24
23 channels.....	24
123 channels.....	32
100+15 channels (ArtNet + DMX mode)	40
Channel Settings.....	44
Connecting to a Network	45
ArtNet settings	45
How To Make a Data Cable.....	45
Maintenance	46
Replacing the Fuse.....	46
Troubleshooting	46
No Light.....	46
No Response to DMX.....	47
Product Specifications	48
Dimensions	49

Warning



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

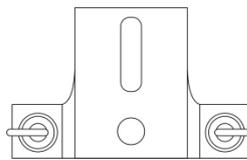


Unpacking Instructions

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 iM-2515
- 2 x mounting bracket with quick-locks
- Neutrik PowerCON to Schuko 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.
- 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 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 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. The 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.



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 more than 2 meter.
- The maximum ambient temperature $t_a = 40^{\circ}\text{C}$ 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

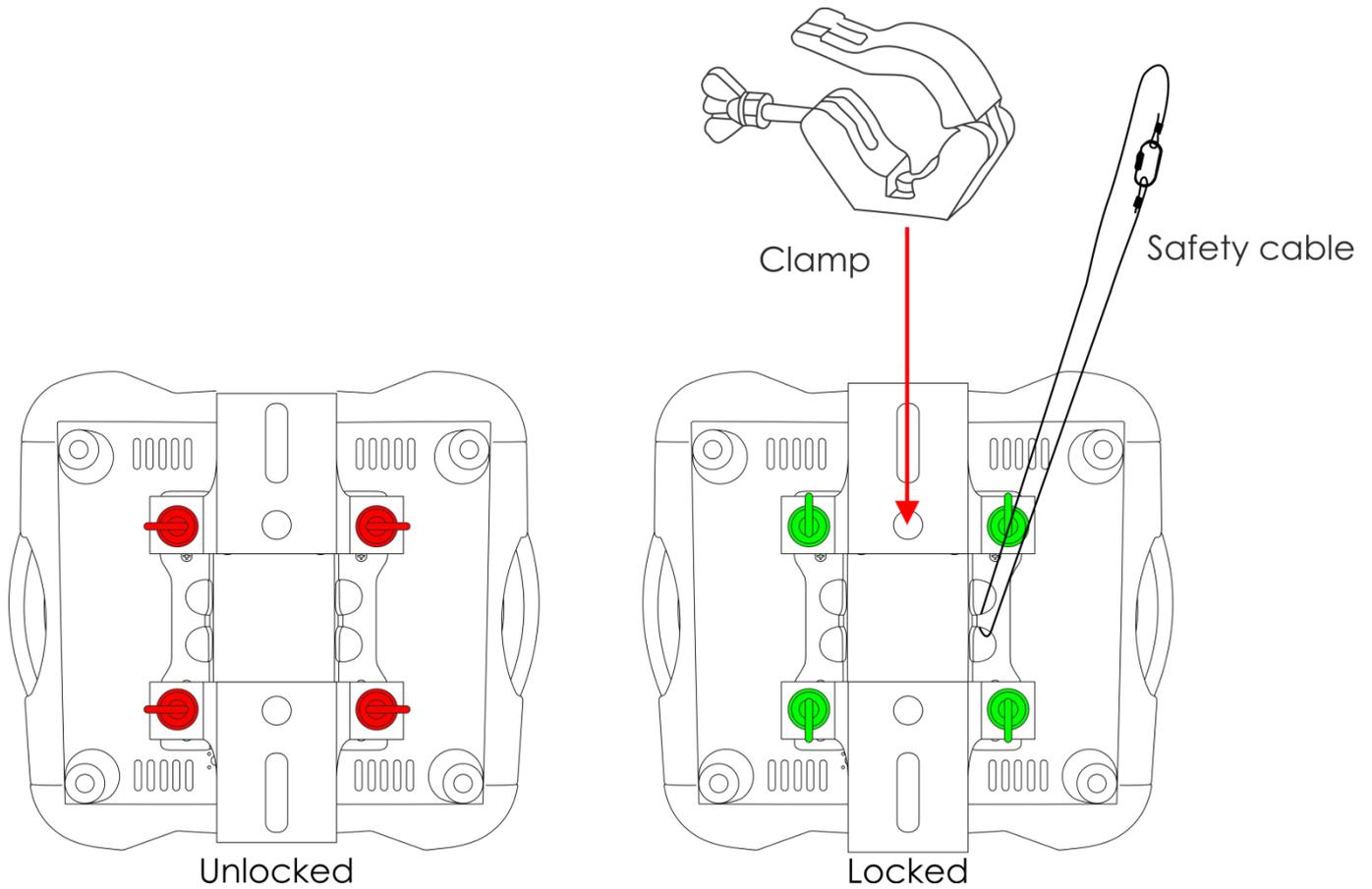
Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

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 offersales@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 shortcomings 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 iM-2515 is a moving head effect with high output and great effects.

- Input voltage: 100-240V AC, 50/60Hz
- Power consumption: 510W
- DMX channels: 23, 123, 100+15 channels
- LCD display with gravity sensor
- Light source: 25 x 15W RGBW 4-in-1 Osram Ostar
- Light output: 11700 lumen
- Color temperature: 19000K
- Control modes: Stand-alone, Master/Slave, DMX-512, DMX-512+ArtNet
- Control protocol: DMX-512, ArtNet
- Dimmer: 0-100%
- Strobe: 0-20Hz
- Dimming curves: Linear, Square, I-Square, S-curve
- Beam Angle: 4,5°
- Pan: 540°
- Tilt: 270°
- IP rating: IP20
- Housing: Metal & flame retardant plastic
- Connections: Neutrik PowerCON & 3-pin/5-pin XLR IN/OUT
- Fuse: F10AL/250V
- Dimensions: 470 x 295 x 580 mm (LxWxH)
- Weight: 22 kg

Optional accessories

[MOD41560](#) – Wireless DMX upgrade kit



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



Frontside

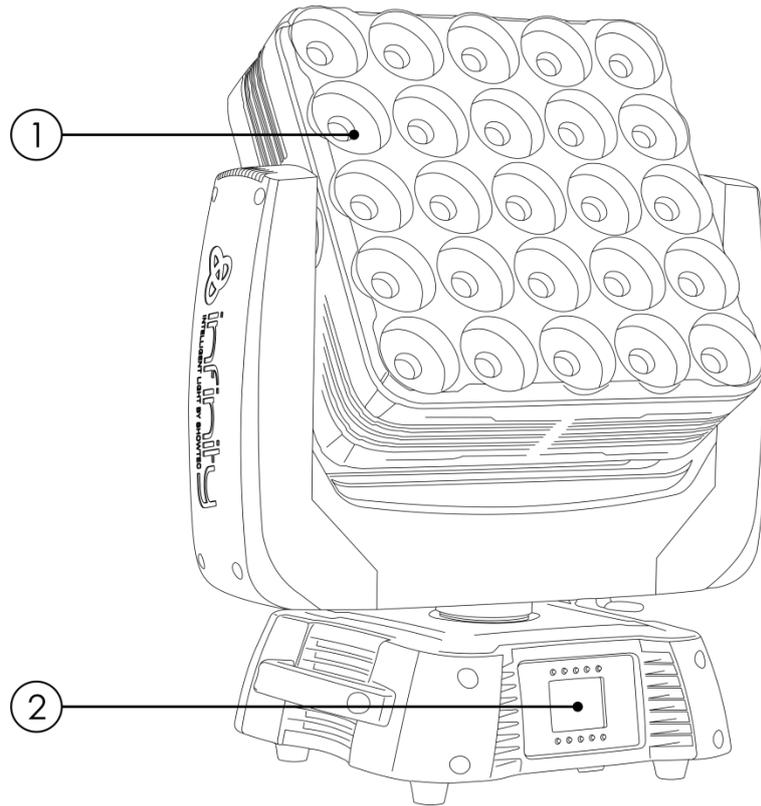


Fig. 01

- 01) 25 x 15W RGBW 4-in-1 Osram Ostar
- 02) LCD display + control buttons

Backside

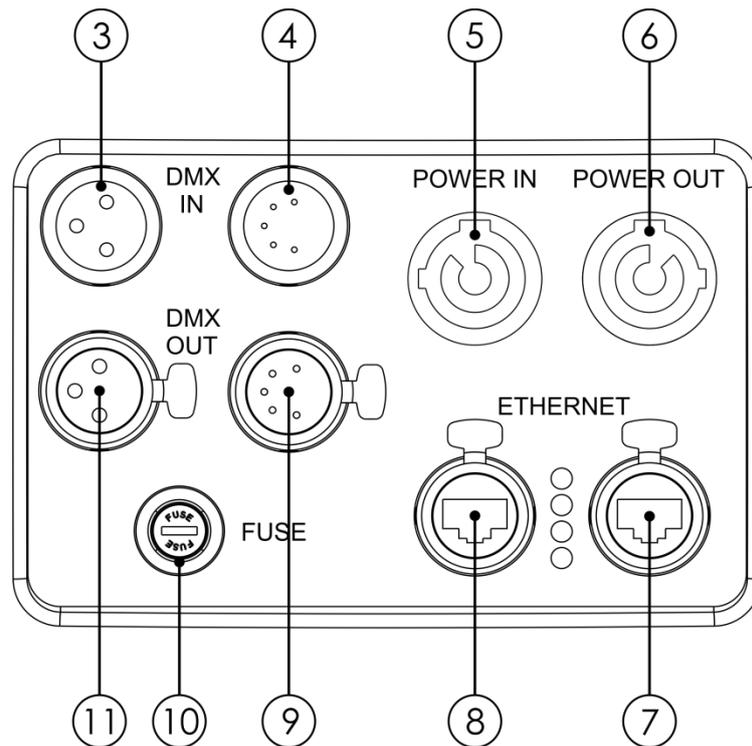


Fig. 02

- 03) 3-pin DMX signal connector IN
- 04) 5-pin DMX signal connector IN
- 05) PowerCON power connector 100-240V IN
- 06) PowerCON power connector 100-240V OUT
- 07) RJ45 Ethernet connector OUT
- 08) RJ45 Ethernet connector IN
- 09) 5-pin DMX signal connector OUT
- 10) Fuse F10AL/250V
- 11) 3-pin DMX signal connector OUT

Installation

Remove all packing materials from the Infinity iM-2515. 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.

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 4 modes:

- Stand-alone
- Master/Slave
- DMX-512 (23CH, 123CH)
- DMX-512+ArtNet (100+15CH)

One Infinity (Stand-alone)

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

Multiple Infinitys (Master/Slave control)

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

The pins:



- 01) Earth
- 02) Signal -
- 03) Signal +

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

Multiple Infinitys (Master/Slave control)

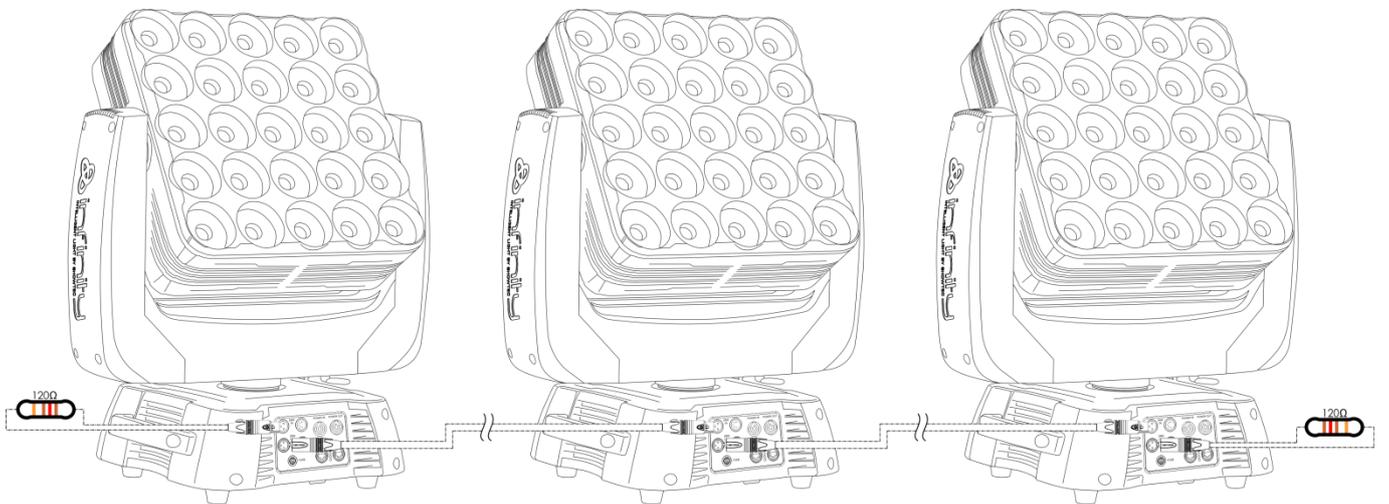
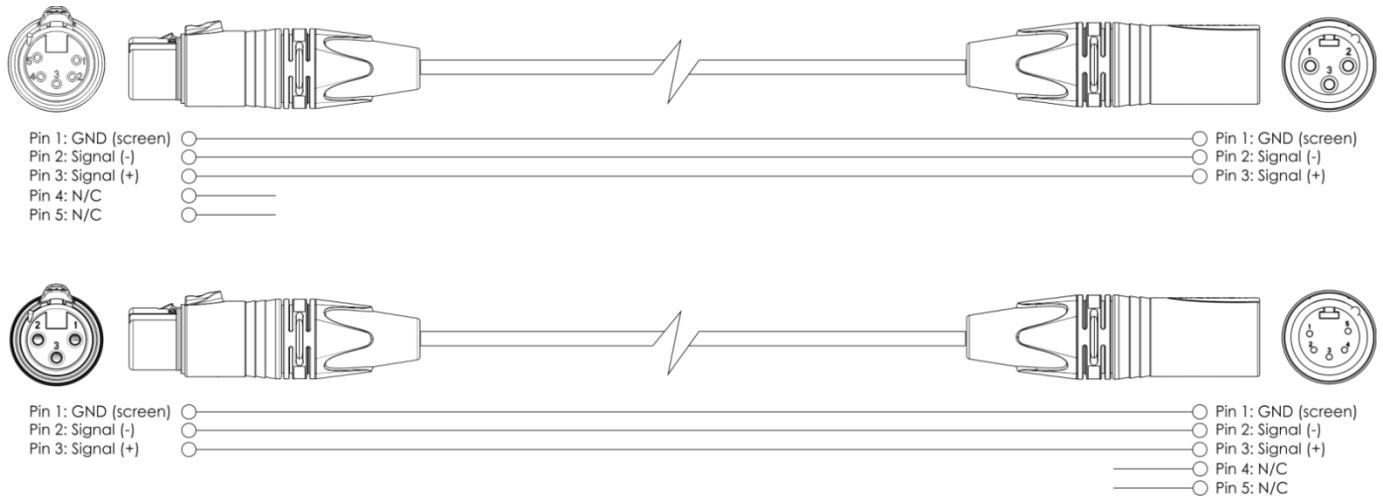


Fig. 03

Multiple Infinitys (DMX control)

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



- 04) Link the units as shown in fig. 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 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

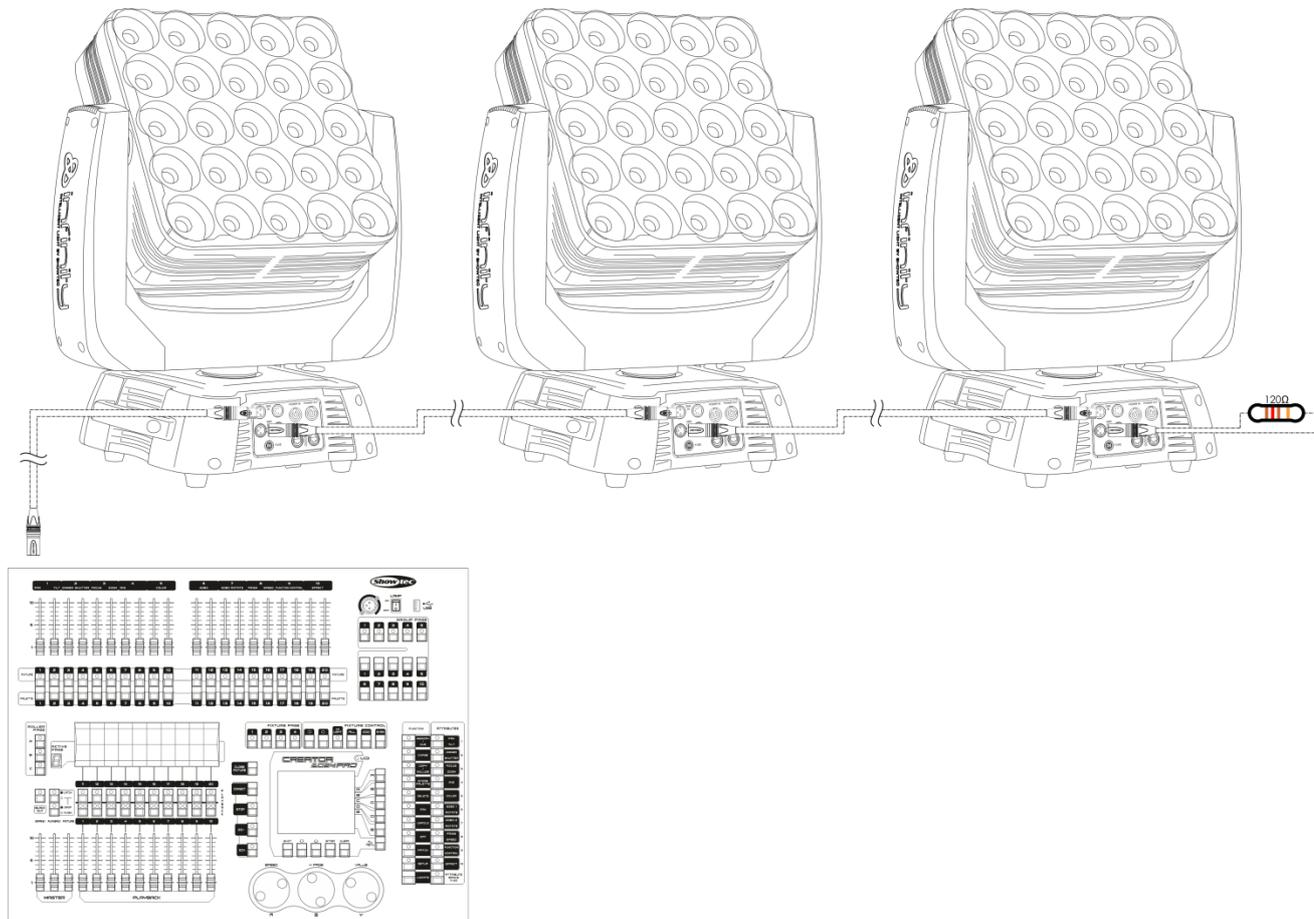
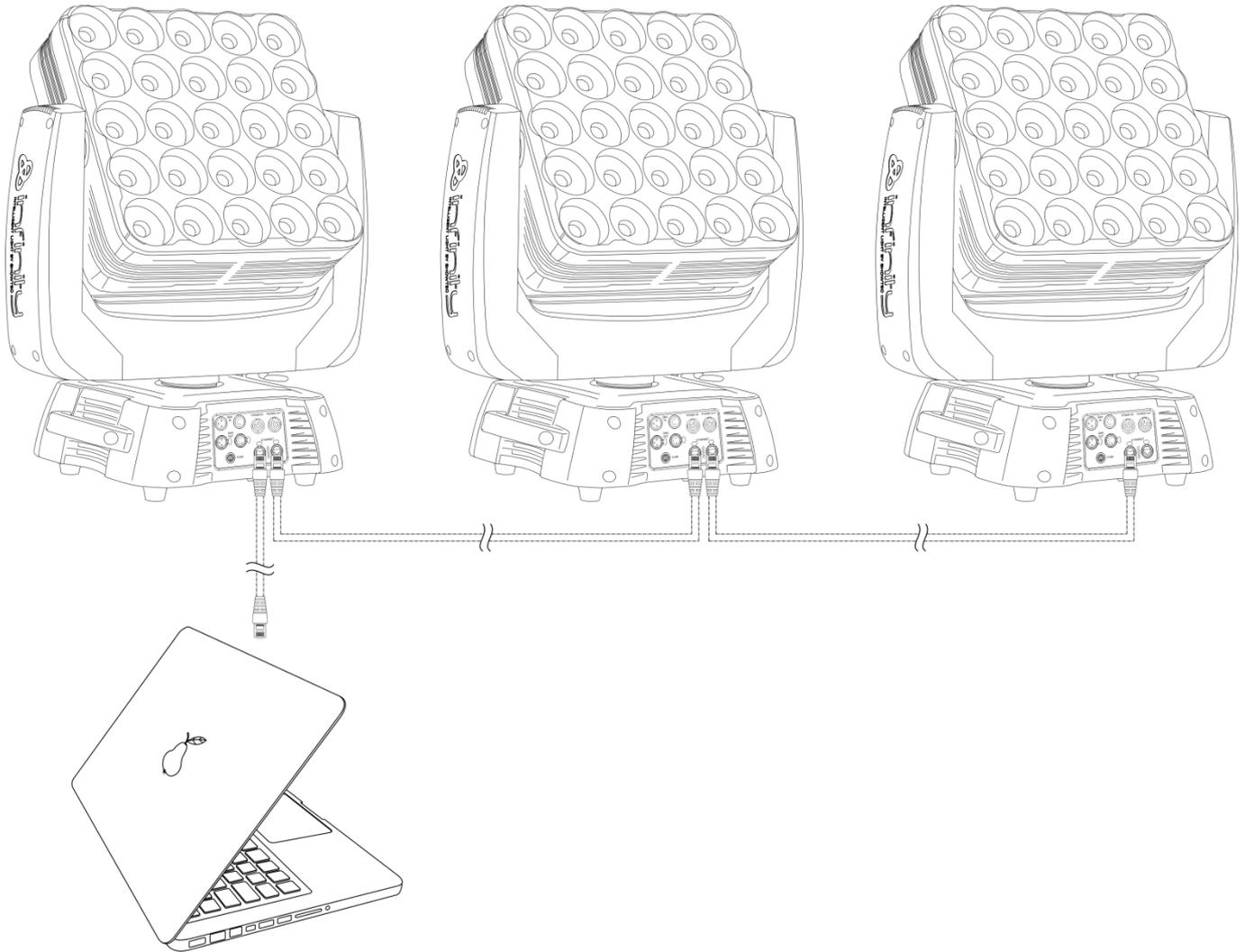


Fig. 04

Note : Link all cables before connecting electric power

Multiple Infinitys (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 your ArtNet controller to the first unit's Ethernet "in" socket.
- 04) Link all the Infinitys by connecting the first unit's Ethernet "out" socket with the second unit's "in" socket, using a CAT-5/CAT-6 cable.
- 05) Repeat this process to link the second, third, and fourth units (fig. 05).
- 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 ArtNet Set Up**Fig. 05**

Note : Link all cables before connecting electric power

Fixture Linking

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

- Important:** Fixtures on a serial data link must be daisy-chained in a single line. To comply with the EIA-485 standard, no more than 30 devices should be connected on one data link. Connecting more than 30 fixtures on one serial data link without the use of a DMX optically isolated splitter may result in deterioration of the digital DMX signal.
-  Maximum recommended DMX data link distance: 100 meters
 Maximum recommended number of fixtures on a DMX data link: 30 fixtures
 Maximum recommended number of fixtures on a power link @110V: 4 fixtures
 Maximum recommended number of fixtures on a power link @240V: 7 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 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

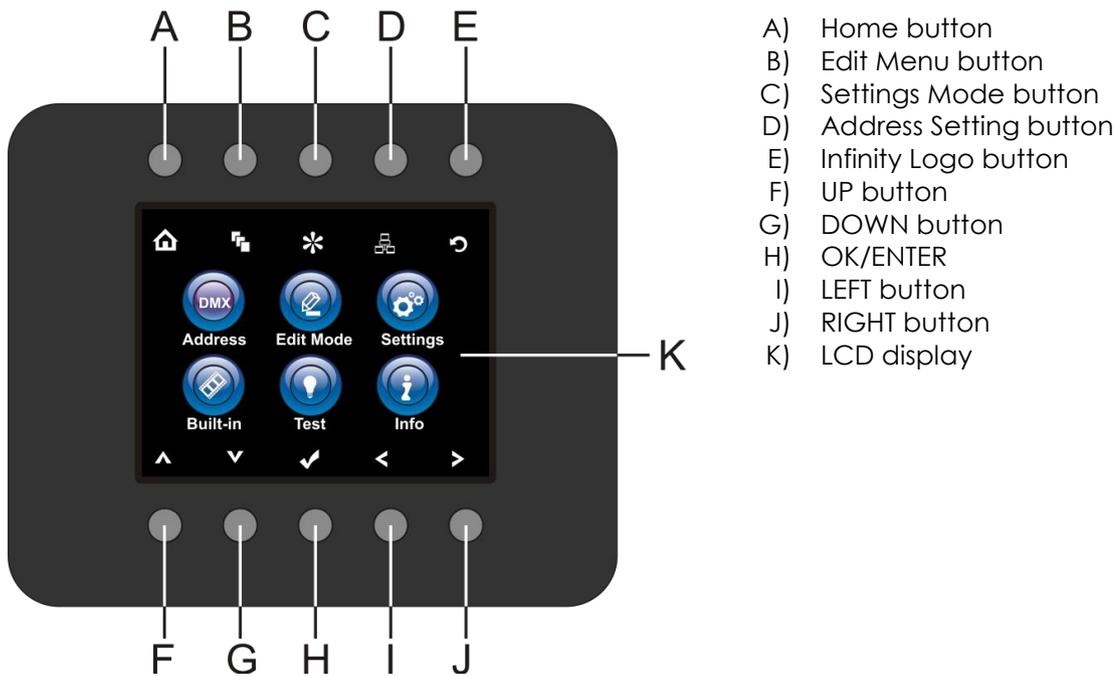


Fig. 06

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 **123** channels. When using multiple Infinities, 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+123=124 (124)**; the DMX address of the third Infinity should be **124+123=247 (247)**, etc. Please, be sure that you don't have any overlapping channels in order to control each Infinity correctly. If two or more Infinities 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 defective, or the signal wires are swapped in the input connector.

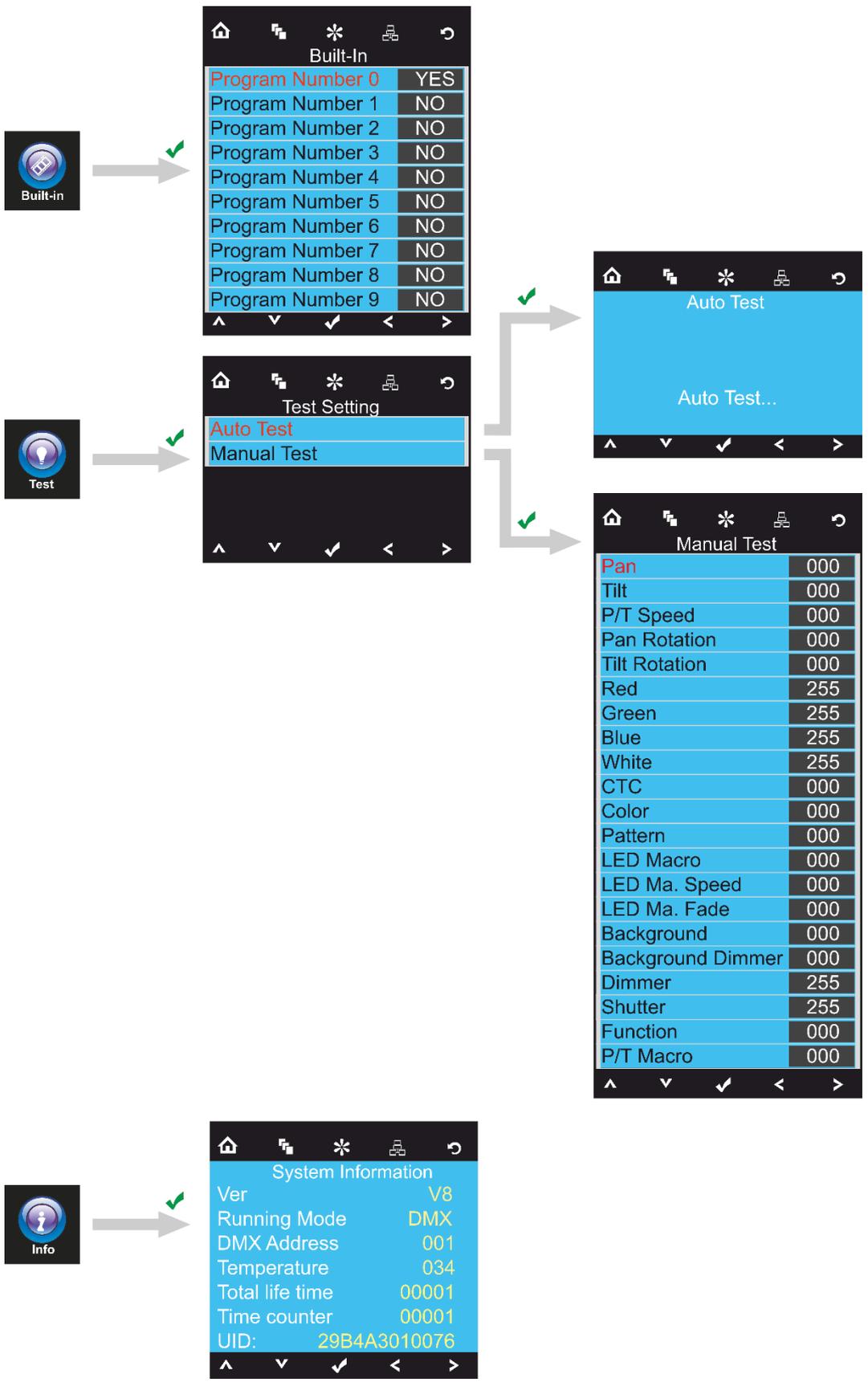
Note: It's necessary to insert a XLR termination plug (with 120 Ohm) in the last fixture in order to ensure proper transmission on the DMX data link.

Display Off after 40 seconds

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

Menu Overview





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 .

02) Now you can adjust either DMX settings or ArtNet settings, depending on the current operating mode.

1.1. DMX settings

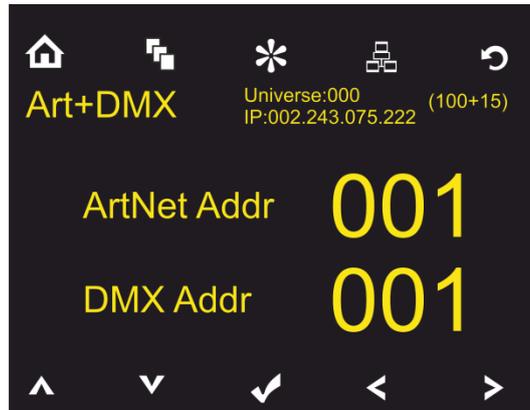
01) Press the button, to confirm. You can choose from 512 different DMX addresses.

02) press the and/or buttons to select the required address from ^{Up/Down} .

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

1.2. ArtNet settings (ArtNet + DMX mode)

- 01) Activate **Art + DMX (100+15)** mode (see 2. Edit Mode, page 18).
- 02) Press the  button, to confirm. You can now set the DMX starting address and/or the device's ArtNet address.



- 03) Press the   buttons to select the digit which you want to adjust.
- 04) Press the   buttons to change the value.
- 05) Once you have made all the desired changes, 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 .
- 02) Press the  button, to confirm. You can choose one of the 4 available modes.
- 03) Press the   buttons to select the required mode:

DMX MODE 23(CH)	YES
DMX MODE 123(CH)	NO
Art+DMX 100+15	NO
MASTER MODE	NO

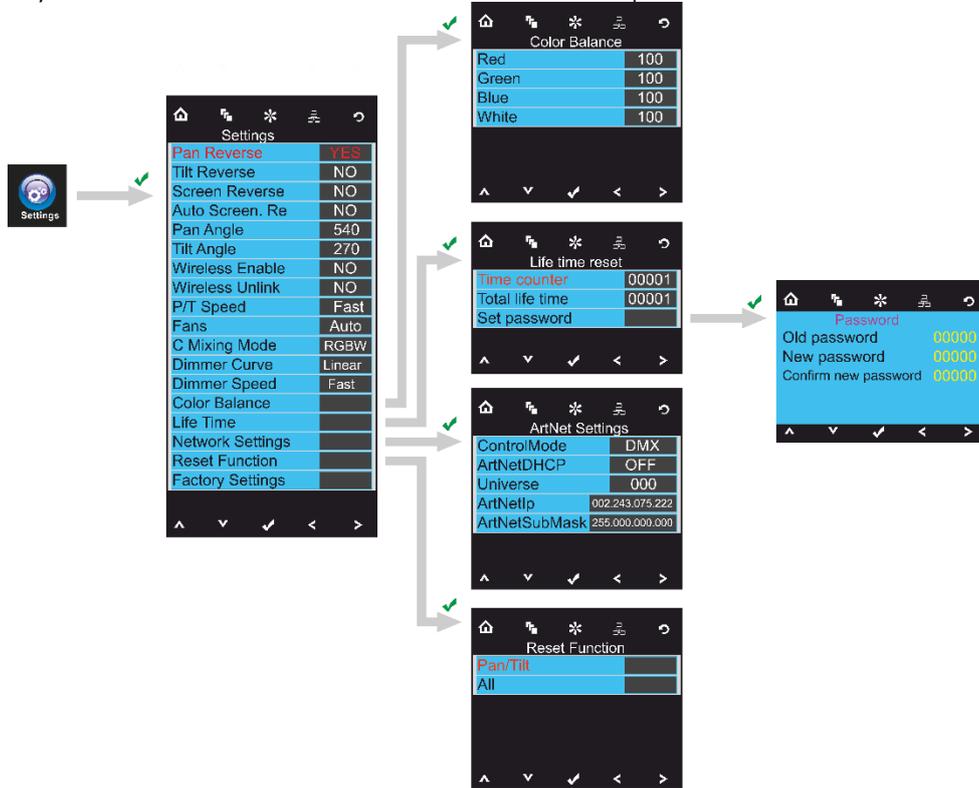
- 04) Once you have selected the desired mode, press the   buttons to change the value from NO to YES.
- 05) Press the  button to confirm your choice.
- 06) If the device has been set to Master mode, all the connected slave devices will act the same as the master device.
- 07) If the device has been set to slave, it will react the same as its master device.

3. Settings Menu

With this menu you can set your desired mode.



- 01) Press the button or press the buttons to select .
- 02) Press the button, to enter the menu. You can choose from 18 different modes.
- 03) Press the buttons to select the required mode:



- 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°
 - P/T Speed: Fast, Slow
 - Fans: Auto, Silent, Full
 - C Mixing Mode: RGBW, CMY
 - Dimmer Curve: Linear, Square, I Squa, Scurve
 - Dimmer Speed: Smooth, Fast

3.1. Color Balance

With this menu you can set the device's color brightness.

- 01) Press the buttons to select Color Balance and press the button to open the menu.
- 02) You can now adjust 4 colors: Red, Green, Blue, White.
- 03) Choose the desired color, press the button and then press the buttons to set the value. The adjustment range is between 100-255, from dark to brightest.
- 04) You can combine Red, Green, Blue and White to create an infinite range of colors.

3.2. Life Time

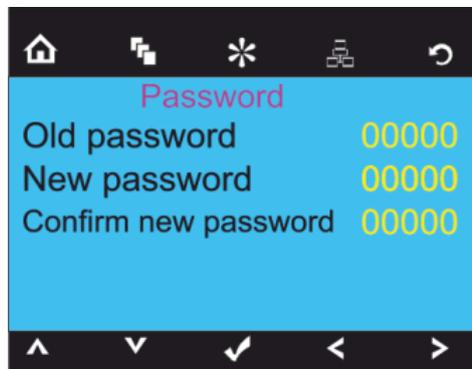
With this menu you can reset the device's counters.

- 01) Press the   buttons to select Life Time and press the  button to open the menu.
- 02) Press the   buttons to choose one of the 3 reset options:
 - Time Counter (the time counter will be reset)
 - Total Life Time (the device's operation time counter will be reset)
 - Set Password
- 03) If you select Time Counter or Total Life Time, press the  button to open the selection menu.
- 04) Press the   buttons to choose either YES or NO. Press the  button to confirm.

3.2.1. Set Password

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

- 01) Press the   buttons to select Set Password and press the  button to open the menu.
- 02) The following screen will pop up:

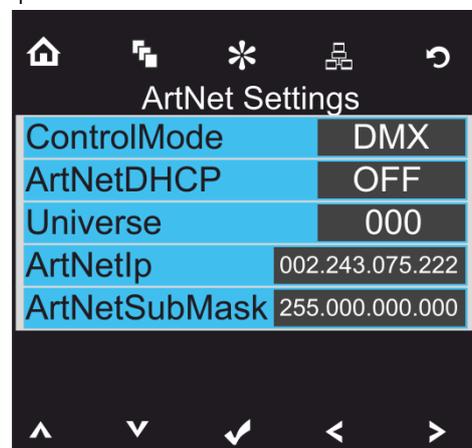


- 03) Press the   buttons to select the digit which you want to edit.
- 04) Press the   buttons to adjust the values.

3.3. Network Settings

With this menu you can set the device's network settings.

- 01) Press the   buttons to select Network Settings and press the  button to open the menu.
- 02) The following screen will pop up:



- 03) Press the   buttons to choose one of the 4 options:
- Control mode (ArtNet, DMX, ArtNet + DMX, ArtNet)
 - ArtNet DHCP (If set to ON, the device receives the IP address from the router. If set to OFF, you can assign your desired IP address to the device.)
 - Universe (the device's universe, 0-255)
 - ArtNet IP
 - ArtNet submask
- 04) If you have chosen the desired option, press the  button to proceed to edition mode.
- 05) Press the   buttons to adjust the options.
- 06) Press the  button to confirm your choice.

3.4. Reset

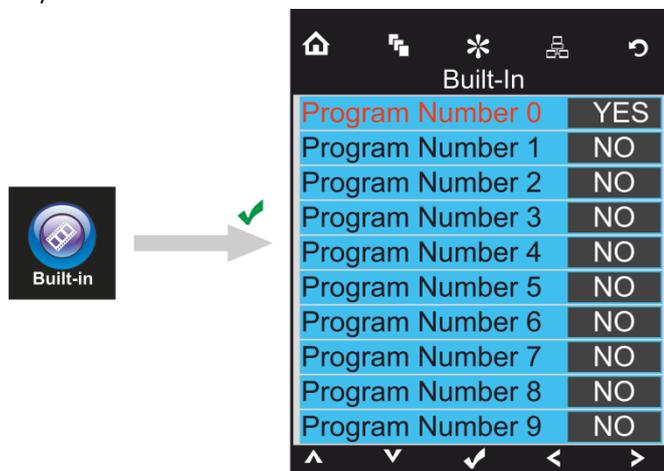
With this menu you can reset the device's settings.

- 01) In Settings menu, press the   buttons to select Reset Function and press the  button to open the menu.
- 02) Press the   buttons to choose one of the 2 options:
- Pan/Tilt (Pan/Tilt reset)
 - All (complete settings reset)
- 03) Once you have chosen the desired option, press the  button to proceed to edition mode.
- 04) Press the   buttons to choose between YES or NO.
- 05) Press the  button to confirm your choice.

4. Built-in Programs

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

- 01) Press the  button or press the     buttons to select .
- 02) Press the  button to enter the menu.
- 03) Press the   buttons to select the desired built-in program.

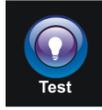


- 04) Press the  button to confirm your choice.

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

5. Test Menu

With this menu you can set your desired mode.

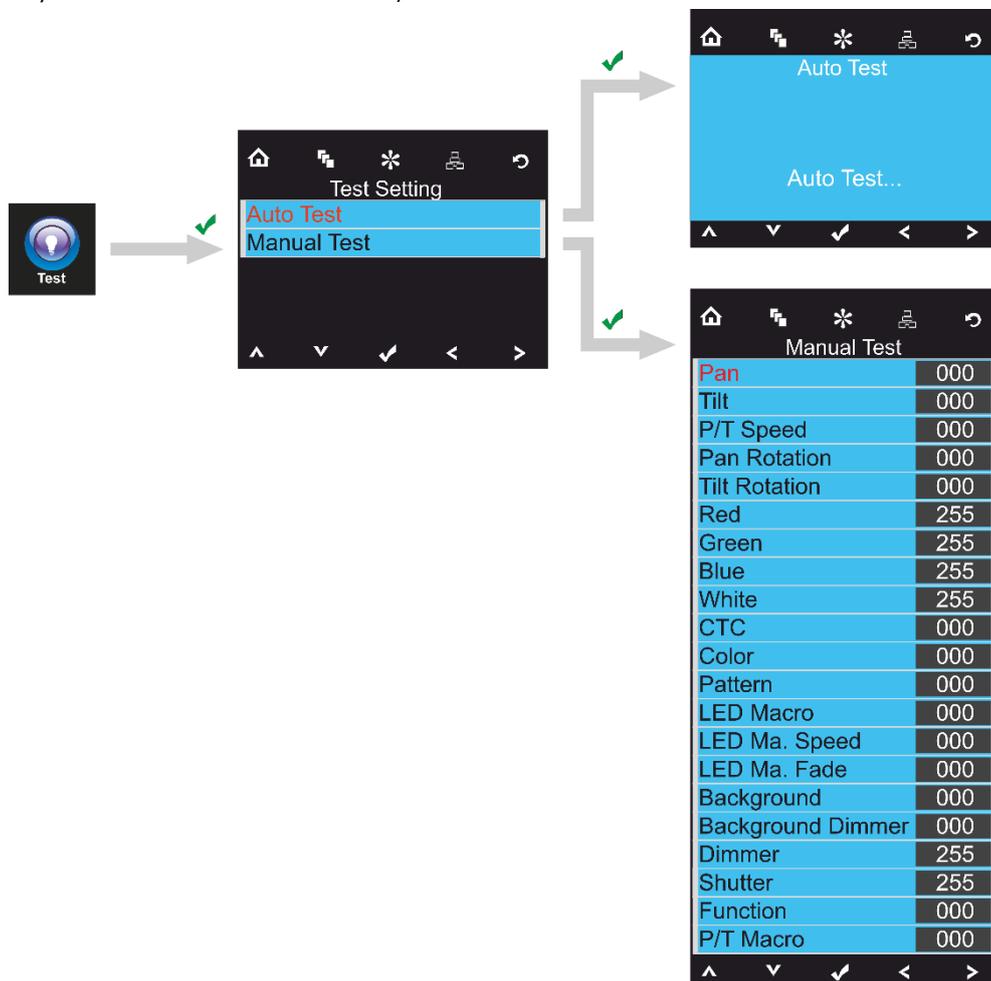
01) Press the  button or press the     buttons to select .

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.



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.

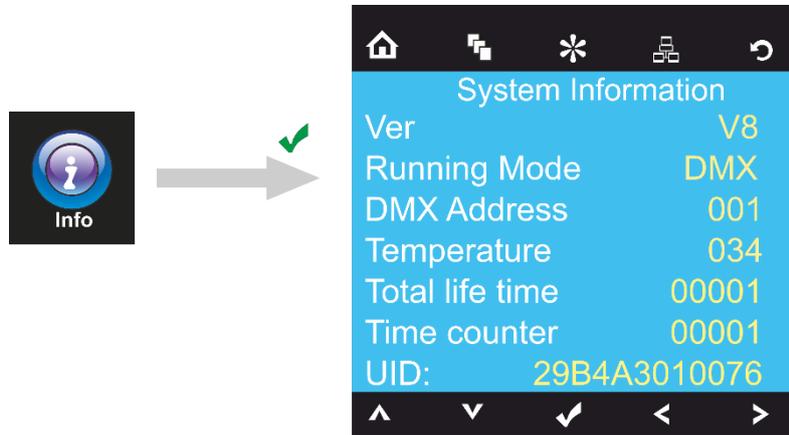
07) Press the   buttons to change the values from 0 to 255.

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 .
- 02) Press the  button to enter the menu.
- 03) The following screen will pop up:



- 04) You can now monitor the device's current software version, current active mode, current DMX starting address, current temperature, total operation time counter, time counter and the device's unique identifier (UID).

DMX Channels

23 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 – Continuous horizontal movement (Pan)

0 Stop
 1-127 Counterclockwise rotation, from slow to fast
 128-255 Clockwise rotation, from slow to fast

Channel 7 – Continuous vertical movement (Tilt)

0 Stop
 1-127 Counterclockwise rotation, from slow to fast
 128-255 Clockwise rotation, from slow to fast

Channel 8 – Red  **CH20-21 must be open; CH13 must be closed** 
 0-255 Gradual adjustment Red, from dark to brightest

Channel 9 – Green  **CH20-21 must be open; CH13 must be closed** 
 0-255 Gradual adjustment Green, from dark to brightest

Channel 10 – Blue  **CH20-21 must be open; CH13 must be closed** 
 0-255 Gradual adjustment Blue, from dark to brightest

Channel 11 – White  **CH20-21 must be open; CH13 must be closed** 
 0-255 Gradual adjustment White, from dark to brightest

Channel 12 – Color temperature

0 Not functional
 1-255 Color temperature, from 19000K to 2700K

Channel 13 – Color macros  **CH15 must be closed** 

0 Not functional
 1-2 White 2700K
 3-4 White 3200K
 5-6 White 4200K
 7-8 White 5600K
 9-10 White 8000K
 11 Blue (R=0, G=0, B=255, W=0)
 12-48 R=0, G+, B=255, W=0
 49 Cyan (R=0, G=255, B=255, W=0)
 50-86 R=0, G=255, B-, W=0
 87 Green (R=0, G=255, B=0, W=0)
 88-124 R+, G=255, B=0, W=0
 125 Yellow (R=255, G=255, B=0, W=0)
 126-162 R=255, G-, B=0, W=0
 163 Red (R=255, G=0, B=0, W=0)
 164-200 R=255, G=0, B+, W=0
 201 Purple (R=255, G=0, B=255, W=0)
 202-238 R-, G=0, B=255, W=0
 239 Blue (R=0, G=0, B=255, W=0)
 240-247 Color flow, from fast to slow
 248-255 Color switch, from fast to slow

Channel 14 – LED patterns

 **CH8-11 or CH13 must be open; CH15 must be closed and CH20-21 must be open** 

0-9 Not functional
 10-11 0
 12-13 1
 14-15 2
 16-17 3
 18-19 4
 20-21 5
 22-23 6
 24-25 7
 26-27 8
 28-29 9
 30-31 A
 32-33 B

34-35	C
36-37	D
38-39	E
40-41	F
42-43	G
44-45	H
46-47	I
48-49	J
50-51	K
52-53	L
54-55	M
56-57	N
58-59	O
60-61	P
62-63	Q
64-65	R
66-67	S
68-69	T
70-71	U
72-73	V
74-75	W
76-77	X
78-79	Y
80-81	Z
82-83	Pattern 1
84-85	Pattern 2
86-87	Pattern 3
88-89	Pattern 4
90-91	Pattern 5
92-93	Pattern 6
94-95	Pattern 7
96-97	Pattern 8
98-99	Pattern 9
100-101	Pattern 10
102-103	Pattern 11
104-105	Pattern 12
106-107	Pattern 13
108-109	Pattern 14
110-111	Pattern 15
112-113	Pattern 16
114-115	Pattern 17
116-117	Pattern 18
118-119	Pattern 19
120-121	Pattern 20
122-123	Pattern 21
124-125	Pattern 22
126-127	Pattern 23
128-129	Pattern 24
130-131	Pattern 25
132-133	Pattern 26
134-135	Pattern 27
136-137	Pattern 28
138-139	Pattern 29
140-141	Pattern 30
142-143	Pattern 31
144-145	Pattern 32
146-147	Pattern 33

148-149	Pattern 34
150-151	Pattern 35
152-153	Pattern 36
154-155	LED 1
156-157	LED 2
158-159	LED 3
160-161	LED 4
162-163	LED 5
164-165	LED 6
166-167	LED 7
168-169	LED 8
170-171	LED 9
172-173	LED 10
174-175	LED 11
176-177	LED 12
178-179	LED 13
180-181	LED 14
182-183	LED 15
184-185	LED 16
186-187	LED 17
188-189	LED 18
190-191	LED 19
192-193	LED 20
194-195	LED 21
196-197	LED 22
198-199	LED 23
200-201	LED 24
202-203	LED 25
204-205	Pattern 37
206-207	Pattern 38
208-209	Pattern 39
210-211	Pattern 40
212-213	Pattern 41
214-215	Pattern 42
216-217	Pattern 43
218-219	Pattern 44
220-223	Pattern 45
224-225	Pattern 46
226-227	Pattern 47
228-229	Pattern 48
230-231	Pattern 49
232-233	Pattern 50
234-235	Pattern 51
236-237	Pattern 52
238-239	Pattern 53
240-241	Pattern 54
242-243	Pattern 55
244-245	Pattern 56
246-247	Pattern 57
248-249	Pattern 58
250-251	Pattern 59
252-253	Pattern 60
254-255	All 25 LEDs FULL ON

Channel 15 – Color programs  **CH8-11 or CH13 must be open; CH20-21 must be open** 

0-15	Not functional
16-17	Built-in color program 1
18-19	Built-in color program 2
20-21	Built-in color program 3
22-23	Built-in color program 4
24-25	Built-in color program 5
26-27	Built-in color program 6
28-29	Built-in color program 7
30-31	Built-in color program 8
32-33	Built-in color program 9
34-35	Built-in color program 10
36-37	Built-in color program 11
38-39	Built-in color program 12
40-41	Built-in color program 13
42-43	Built-in color program 14
44-45	Built-in color program 15
46-47	Built-in color program 16
48-49	Built-in color program 17
50-51	Built-in color program 18
52-53	Built-in color program 19
54-55	Built-in color program 20
56-57	Built-in color program 21
58-59	Built-in color program 22
60-61	Built-in color program 23
62-63	Built-in color program 24
64-65	Built-in color program 25
66-67	Built-in color program 26
68-69	Built-in color program 27
70-71	Built-in color program 28
72-73	Built-in color program 29
74-75	Built-in color program 30
76-77	Built-in color program 31
78-79	Built-in color program 32
80-81	Built-in color program 33
82-83	Built-in color program 34
84-85	Built-in color program 35
86-87	Built-in color program 36
88-89	Built-in color program 37
90-91	Built-in color program 38
92-93	Built-in color program 39
94-95	Built-in color program 40
96-97	Built-in color program 41
98-99	Built-in color program 42
100-101	Built-in color program 43
102-103	Built-in color program 44
104-105	Built-in color program 45
106-107	Built-in color program 46
108-109	Built-in color program 47
110-111	Built-in color program 48
112-113	Built-in color program 49
114-115	Built-in color program 50
116-117	Built-in color program 51
118-119	Built-in color program 52
120-121	Built-in color program 53
122-123	Built-in color program 54

124-125	Built-in color program 55
126-127	Built-in color program 56
128-129	Built-in color program 57
130-131	Built-in color program 58
132-133	Built-in color program 59
134-135	Built-in color program 60
136-137	Built-in fixed color program 1
138-139	Built-in fixed color program 2
140-141	Built-in fixed color program 3
142-143	Built-in fixed color program 4
144-145	Built-in fixed color program 5
146-147	Built-in fixed color program 6
148-149	Built-in fixed color program 7
150-151	Built-in fixed color program 8
152-153	Built-in fixed color program 9
154-155	Built-in fixed color program 10
156-157	Built-in fixed color program 11
158-159	Built-in fixed color program 12
160-161	Built-in fixed color program 13
162-163	Built-in fixed color program 14
164-165	Built-in fixed color program 15
166-167	Built-in fixed color program 16
168-169	Built-in fixed color program 17
170-171	Built-in fixed color program 18
172-173	Built-in fixed color program 19
174-175	Built-in fixed color program 20
176-177	Built-in fixed color program 21
178-179	Built-in fixed color program 22
180-181	Built-in fixed color program 23
182-183	Built-in fixed color program 24
184-185	Built-in fixed color program 25
186-187	Built-in fixed color program 26
188-189	Built-in fixed color program 27
190-191	Built-in fixed color program 28
192-193	Built-in fixed color program 29
194-195	Built-in fixed color program 30
196-197	Built-in fixed color program 31
198-199	Built-in fixed color program 32
200-201	Built-in fixed color program 33
202-203	Built-in fixed color program 34
204-205	Built-in fixed color program 35
206-207	Built-in fixed color program 36
208-209	Built-in fixed color program 37
210-211	Built-in fixed color program 38
212-213	Built-in fixed color program 39
214-215	Built-in fixed color program 40
216-217	Built-in fixed color program 41
218-219	Built-in fixed color program 42
220-221	Built-in fixed color program 43
222-223	Built-in fixed color program 44
224-225	Built-in fixed color program 45
226-227	Built-in fixed color program 46
228-229	Built-in fixed color program 47
230-231	Built-in fixed color program 48
232-233	Built-in fixed color program 49
234-235	Built-in fixed color program 50
236-237	Built-in fixed color program 51

238-239	Built-in fixed color program 52
240-241	Built-in fixed color program 53
242-243	Built-in fixed color program 54
244-245	Built-in fixed color program 55
246-247	Built-in fixed color program 56
248-249	Built-in fixed color program 57
250-251	Built-in fixed color program 58
252-253	Built-in fixed color program 59
254-255	Built-in fixed color program 60

Channel 16 – Program speed ⚠️ CH15 and CH20-21 must be open ⚠️

0	Static
1-127	Clockwise rotation, from fast to slow
128-255	Counterclockwise rotation, from slow to fast

Channel 17 – LED fade effect

0-255	LED fade effect, from OFF to high
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Channel 18 – Background color macros ⚠️ CH19 must be open ⚠️

0	Not functional
1-2	White 2700K
3-4	White 3200K
5-6	White 4200K
7-8	White 5600K
9-10	White 8000K
11	Blue (R=0, G=0, B=255, W=0)
12-48	R=0, G+, B=255, W=0
49	Cyan (R=0, G=255, B=255, W=0)
50-86	R=0, G=255, B-, W=0
87	Green (R=0, G=255, B=0, W=0)
88-124	R+, G=255, B=0, W=0
125	Yellow (R=255, G=255, B=0, W=0)
126-162	R=255, G-, B=0, W=0
163	Red (R=255, G=0, B=0, W=0)
164-200	R=255, G=0, B+, W=0
201	Purple (R=255, G=0, B=255, W=0)
202-238	R-, G=0, B=255, W=0
239	Blue (R=0, G=0, B=255, W=0)
240-247	Color flow, from fast to slow
248-255	Color switch, from fast to slow

Channel 19 – Background dimmer

0-255	Dimmer intensity, from OFF to full ON
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Channel 20 – Master dimmer

0-255	Dimmer intensity, from OFF to full ON
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Channel 21 – Shutter / Strobe ⚠️ CH20 must be open ⚠️

0-19	Close
20-24	Shutter open
25-64	Strobe effect 1, from fast to slow
65-69	Shutter open
70-84	Strobe effect 2 (fast on and slow off), from fast to slow
85-89	Shutter open
90-104	Strobe effect 3 (slow on and fast off), from fast to slow

105-109	Shutter open
110-124	Strobe effect 4 (random strobe), from fast to slow
125-129	Shutter open
130-144	Strobe effect 5 (random strobe fast on and slow off), from fast to slow
145-149	Shutter open
150-164	Strobe effect 6 (random strobe slow on and fast off), from fast to slow
165-169	Shutter open
170-184	Strobe effect 7 (pulse strobe), from fast to slow
185-189	Shutter open
190-204	Strobe effect 8 (random pulse frequency strobe), from fast to slow
205-209	Shutter open
210-224	Strobe effect 9 (strobe light, gradually destroy), from fast to slow
225-229	Shutter open
230-244	Strobe effect 10 (pulse strobe), from fast to slow
245-255	Shutter open

Channel 22 – Functions

0-19	Not functional
20-24	RGBW color mixing, after 5 seconds
25-29	CMY color mixing, after 5 seconds
30-49	Not functional
50-54	Pan reset, after 5 seconds
55-59	Tilt reset, after 5 seconds
60-69	Not functional
70-74	Pan/Tilt reset, after 5 seconds
75-79	Not functional, after 5 seconds
80-114	Pan/Tilt fast, after 5 seconds
115-119	Pan/Tilt slow, after 5 seconds
120-124	Cooling fan slow, after 5 seconds
125-129	Cooling fan full speed, after 5 seconds
130-134	Cooling fan temperature dependent, after 5 seconds
135-139	Fast dimmer, after 5 seconds
140-144	Slow dimmer, after 5 seconds
145-255	Not functional

Channel 23 – Built-in programs

0-7	Not functional
8-23	Program 1
24-39	Program 2
40-55	Program 3
56-71	Program 4
72-87	Program 5
88-103	Program 6
104-119	Program 7
120-135	Program 8
136-151	Program 9
152-167	Program 10
168-183	Program 11
184-199	Program 12
200-215	Program 13
216-231	Program 14
232-247	Program 15
248-255	Program 16

123 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 – Continuous horizontal movement (Pan)

0 Stop
 1-127 Counterclockwise rotation, from slow to fast
 128-255 Clockwise rotation, from slow to fast

Channel 7 – Continuous vertical movement (Tilt)

0 Stop
 1-127 Counterclockwise rotation, from slow to fast
 128-255 Clockwise rotation, from slow to fast

Channel 8 – Red  CH120-121 must be open; CH113 must be closed 

0-255 Gradual adjustment Red, from dark to brightest

Channel 9 – Green ⚠️ **CH120-121 must be open; CH113 must be closed** ⚠️
 0-255 Gradual adjustment Green, from dark to brightest

Channel 10 – Blue ⚠️ **CH120-121 must be open; CH113 must be closed** ⚠️
 0-255 Gradual adjustment Blue, from dark to brightest

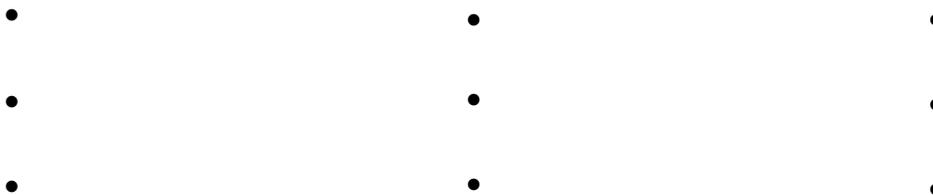
Channel 11 – White ⚠️ **CH120-121 must be open; CH113 must be closed** ⚠️
 0-255 Gradual adjustment White, from dark to brightest

Channel 12 – Red 1 ⚠️ **CH120-121 must be open; CH113 must be closed** ⚠️
 0-255 Gradual adjustment Red, from dark to brightest

Channel 13 – Green 1 ⚠️ **CH120-121 must be open; CH113 must be closed** ⚠️
 0-255 Gradual adjustment Green, from dark to brightest

Channel 14 – Blue 1 ⚠️ **CH120-121 must be open; CH113 must be closed** ⚠️
 0-255 Gradual adjustment Blue, from dark to brightest

Channel 15 – White 1 ⚠️ **CH120-121 must be open; CH113 must be closed** ⚠️
 0-255 Gradual adjustment White, from dark to brightest



Channel 108 – Red 25 ⚠️ **CH120-121 must be open; CH113 must be closed** ⚠️
 0-255 Gradual adjustment Red, from dark to brightest

Channel 109 – Green 25 ⚠️ **CH120-121 must be open; CH113 must be closed** ⚠️
 0-255 Gradual adjustment Green, from dark to brightest

Channel 110 – Blue 25 ⚠️ **CH120-121 must be open; CH113 must be closed** ⚠️
 0-255 Gradual adjustment Blue, from dark to brightest

Channel 111 – White 25 ⚠️ **CH120-121 must be open; CH113 must be closed** ⚠️
 0-255 Gradual adjustment White, from dark to brightest

Channel 112 – Color temperature
 0 Not functional
 1-255 Color temperature, from 19000K to 2700K

Channel 113 – Color macros ⚠️ **CH115 must be closed** ⚠️
 0 Not functional
 1-2 White 2700K
 3-4 White 3200K
 5-6 White 4200K
 7-8 White 5600K
 9-10 White 8000K

11	Blue (R=0, G=0, B=255, W=0)
12-48	R=0, G+, B=255, W=0
49	Cyan (R=0, G=255, B=255, W=0)
50-86	R=0, G=255, B-, W=0
87	Green (R=0, G=255, B=0, W=0)
88-124	R+, G=255, B=0, W=0
125	Yellow (R=255, G=255, B=0, W=0)
126-162	R=255, G-, B=0, W=0
163	Red (R=255, G=0, B=0, W=0)
164-200	R=255, G=0, B+, W=0
201	Purple (R=255, G=0, B=255, W=0)
202-238	R-, G=0, B=255, W=0
239	Blue (R=0, G=0, B=255, W=0)
240-247	Color flow, from fast to slow
248-255	Color switch, from fast to slow

Channel 114 – LED patterns

 **CH8-111 or CH113 must be open; CH115 must be closed and CH120-121 must be open** 

0-9	Not functional
10-11	0
12-13	1
14-15	2
16-17	3
18-19	4
20-21	5
22-23	6
24-25	7
26-27	8
28-29	9
30-31	A
32-33	B
34-35	C
36-37	D
38-39	E
40-41	F
42-43	G
44-45	H
46-47	I
48-49	J
50-51	K
52-53	L
54-55	M
56-57	N
58-59	O
60-61	P
62-63	Q
64-65	R
66-67	S
68-69	T
70-71	U
72-73	V
74-75	W
76-77	X
78-79	Y
80-81	Z
82-83	Pattern 1

84-85	Pattern 2
86-87	Pattern 3
88-89	Pattern 4
90-91	Pattern 5
92-93	Pattern 6
94-95	Pattern 7
96-97	Pattern 8
98-99	Pattern 9
100-101	Pattern 10
102-103	Pattern 11
104-105	Pattern 12
106-107	Pattern 13
108-109	Pattern 14
110-111	Pattern 15
112-113	Pattern 16
114-115	Pattern 17
116-117	Pattern 18
118-119	Pattern 19
120-121	Pattern 20
122-123	Pattern 21
124-125	Pattern 22
126-127	Pattern 23
128-129	Pattern 24
130-131	Pattern 25
132-133	Pattern 26
134-135	Pattern 27
136-137	Pattern 28
138-139	Pattern 29
140-141	Pattern 30
142-143	Pattern 31
144-145	Pattern 32
146-147	Pattern 33
148-149	Pattern 34
150-151	Pattern 35
152-153	Pattern 36
154-155	LED 1
156-157	LED 2
158-159	LED 3
160-161	LED 4
162-163	LED 5
164-165	LED 6
166-167	LED 7
168-169	LED 8
170-171	LED 9
172-173	LED 10
174-175	LED 11
176-177	LED 12
178-179	LED 13
180-181	LED 14
182-183	LED 15
184-185	LED 16
186-187	LED 17
188-189	LED 18
190-191	LED 19
192-193	LED 20
194-195	LED 21
196-197	LED 22

198-199	LED 23
200-201	LED 24
202-203	LED 25
204-205	Pattern 37
206-207	Pattern 38
208-209	Pattern 39
210-211	Pattern 40
212-213	Pattern 41
214-215	Pattern 42
216-217	Pattern 43
218-219	Pattern 44
220-223	Pattern 45
224-225	Pattern 46
226-227	Pattern 47
228-229	Pattern 48
230-231	Pattern 49
232-233	Pattern 50
234-235	Pattern 51
236-237	Pattern 52
238-239	Pattern 53
240-241	Pattern 54
242-243	Pattern 55
244-245	Pattern 56
246-247	Pattern 57
248-249	Pattern 58
250-251	Pattern 59
252-253	Pattern 60
254-255	All 25 LEDs FULL ON

Channel 115 – Color programs  **CH8-111 or CH113 must be open; CH120-121 must be open** 

0-15	Not functional
16-17	Built-in color program 1
18-19	Built-in color program 2
20-21	Built-in color program 3
22-23	Built-in color program 4
24-25	Built-in color program 5
26-27	Built-in color program 6
28-29	Built-in color program 7
30-31	Built-in color program 8
32-33	Built-in color program 9
34-35	Built-in color program 10
36-37	Built-in color program 11
38-39	Built-in color program 12
40-41	Built-in color program 13
42-43	Built-in color program 14
44-45	Built-in color program 15
46-47	Built-in color program 16
48-49	Built-in color program 17
50-51	Built-in color program 18
52-53	Built-in color program 19
54-55	Built-in color program 20
56-57	Built-in color program 21
58-59	Built-in color program 22
60-61	Built-in color program 23
62-63	Built-in color program 24
64-65	Built-in color program 25

66-67	Built-in color program 26
68-69	Built-in color program 27
70-71	Built-in color program 28
72-73	Built-in color program 29
74-75	Built-in color program 30
76-77	Built-in color program 31
78-79	Built-in color program 32
80-81	Built-in color program 33
82-83	Built-in color program 34
84-85	Built-in color program 35
86-87	Built-in color program 36
88-89	Built-in color program 37
90-91	Built-in color program 38
92-93	Built-in color program 39
94-95	Built-in color program 40
96-97	Built-in color program 41
98-99	Built-in color program 42
100-101	Built-in color program 43
102-103	Built-in color program 44
104-105	Built-in color program 45
106-107	Built-in color program 46
108-109	Built-in color program 47
110-111	Built-in color program 48
112-113	Built-in color program 49
114-115	Built-in color program 50
116-117	Built-in color program 51
118-119	Built-in color program 52
120-121	Built-in color program 53
122-123	Built-in color program 54
124-125	Built-in color program 55
126-127	Built-in color program 56
128-129	Built-in color program 57
130-131	Built-in color program 58
132-133	Built-in color program 59
134-135	Built-in color program 60
136-137	Built-in fixed color program 1
138-139	Built-in fixed color program 2
140-141	Built-in fixed color program 3
142-143	Built-in fixed color program 4
144-145	Built-in fixed color program 5
146-147	Built-in fixed color program 6
148-149	Built-in fixed color program 7
150-151	Built-in fixed color program 8
152-153	Built-in fixed color program 9
154-155	Built-in fixed color program 10
156-157	Built-in fixed color program 11
158-159	Built-in fixed color program 12
160-161	Built-in fixed color program 13
162-163	Built-in fixed color program 14
164-165	Built-in fixed color program 15
166-167	Built-in fixed color program 16
168-169	Built-in fixed color program 17
170-171	Built-in fixed color program 18
172-173	Built-in fixed color program 19
174-175	Built-in fixed color program 20
176-177	Built-in fixed color program 21
178-179	Built-in fixed color program 22

180-181	Built-in fixed color program 23
182-183	Built-in fixed color program 24
184-185	Built-in fixed color program 25
186-187	Built-in fixed color program 26
188-189	Built-in fixed color program 27
190-191	Built-in fixed color program 28
192-193	Built-in fixed color program 29
194-195	Built-in fixed color program 30
196-197	Built-in fixed color program 31
198-199	Built-in fixed color program 32
200-201	Built-in fixed color program 33
202-203	Built-in fixed color program 34
204-205	Built-in fixed color program 35
206-207	Built-in fixed color program 36
208-209	Built-in fixed color program 37
210-211	Built-in fixed color program 38
212-213	Built-in fixed color program 39
214-215	Built-in fixed color program 40
216-217	Built-in fixed color program 41
218-219	Built-in fixed color program 42
220-221	Built-in fixed color program 43
222-223	Built-in fixed color program 44
224-225	Built-in fixed color program 45
226-227	Built-in fixed color program 46
228-229	Built-in fixed color program 47
230-231	Built-in fixed color program 48
232-233	Built-in fixed color program 49
234-235	Built-in fixed color program 50
236-237	Built-in fixed color program 51
238-239	Built-in fixed color program 52
240-241	Built-in fixed color program 53
242-243	Built-in fixed color program 54
244-245	Built-in fixed color program 55
246-247	Built-in fixed color program 56
248-249	Built-in fixed color program 57
250-251	Built-in fixed color program 58
252-253	Built-in fixed color program 59
254-255	Built-in fixed color program 60

Channel 116 – Program speed  **CH115 and CH120-121 must be open** 

0	Static
1-127	Clockwise rotation, from fast to slow
128-255	Counterclockwise rotation, from slow to fast

Channel 117 – LED fade effect

0-255	LED fade effect, from OFF to high
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Channel 118 – Background color macros  **CH119 must be open** 

0	Not functional
1-2	White 2700K
3-4	White 3200K
5-6	White 4200K
7-8	White 5600K
9-10	White 8000K
11	Blue (R=0, G=0, B=255, W=0)
12-48	R=0, G+, B=255, W=0

49	Cyan (R=0, G=255, B=255, W=0)
50-86	R=0, G=255, B-, W=0
87	Green (R=0, G=255, B=0, W=0)
88-124	R+, G=255, B=0, W=0
125	Yellow (R=255, G=255, B=0, W=0)
126-162	R=255, G-, B=0, W=0
163	Red (R=255, G=0, B=0, W=0)
164-200	R=255, G=0, B+, W=0
201	Purple (R=255, G=0, B=255, W=0)
202-238	R-, G=0, B=255, W=0
239	Blue (R=0, G=0, B=255, W=0)
240-247	Color flow, from fast to slow
248-255	Color switch, from fast to slow

Channel 119 – Background dimmer

0-255	Dimmer intensity, from OFF to full ON
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Channel 120 – Master dimmer

0-255	Dimmer intensity, from OFF to full ON
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Channel 121 – Shutter / Strobe  CH120 must be open 

0-19	Close
20-24	Shutter open
25-64	Strobe effect 1, from fast to slow
65-69	Shutter open
70-84	Strobe effect 2 (fast on and slow off), from fast to slow
85-89	Shutter open
90-104	Strobe effect 3 (slow on and fast off), from fast to slow
105-109	Shutter open
110-124	Strobe effect 4 (random strobe), from fast to slow
125-129	Shutter open
130-144	Strobe effect 5 (random strobe fast on and slow off), from fast to slow
145-149	Shutter open
150-164	Strobe effect 6 (random strobe slow on and fast off), from fast to slow
165-169	Shutter open
170-184	Strobe effect 7 (pulse strobe), from fast to slow
185-189	Shutter open
190-204	Strobe effect 8 (random pulse frequency strobe), from fast to slow
205-209	Shutter open
210-224	Strobe effect 9 (strobe light, gradually destroy), from fast to slow
225-229	Shutter open
230-244	Strobe effect 10 (pulse strobe), from fast to slow
245-255	Shutter open

Channel 122 – Functions

0-19	Not functional
20-24	RGBW color mixing, after 5 seconds
25-29	CMY color mixing, after 5 seconds
30-49	Not functional
50-54	Pan reset, after 5 seconds
55-59	Tilt reset, after 5 seconds
60-69	Not functional
70-74	Pan/Tilt reset, after 5 seconds
75-79	Not functional, after 5 seconds
80-114	Pan/Tilt fast, after 5 seconds
115-119	Pan/Tilt slow, after 5 seconds

120-124	Cooling fan slow, after 5 seconds
125-129	Cooling fan full speed, after 5 seconds
130-134	Cooling fan temperature dependent, after 5 seconds
135-139	Fast dimmer, after 5 seconds
140-144	Slow dimmer, after 5 seconds
145-255	Not functional

Channel 123 – Built-in programs

0-7	Not functional
8-23	Program 1
24-39	Program 2
40-55	Program 3
56-71	Program 4
72-87	Program 5
88-103	Program 6
104-119	Program 7
120-135	Program 8
136-151	Program 9
152-167	Program 10
168-183	Program 11
184-199	Program 12
200-215	Program 13
216-231	Program 14
232-247	Program 15
248-255	Program 16

100+15 channels (ArtNet + DMX mode)

ArtNet



Channel 1 – Red 1		DMX CH12-13 must be open	
0-255		Gradual adjustment Red, from dark to brightest	

Channel 2 – Green 1 ⚠️ **DMX CH12-13 must be open** ⚠️
 0-255 Gradual adjustment Green, from dark to brightest

Channel 3 – Blue 1 ⚠️ **DMX CH12-13 must be open** ⚠️
 0-255 Gradual adjustment Blue, from dark to brightest

Channel 4 – White 1 ⚠️ **DMX CH12-13 must be open** ⚠️
 0-255 Gradual adjustment White, from dark to brightest

Channel 5 – Red 2 ⚠️ **DMX CH12-13 must be open** ⚠️
 0-255 Gradual adjustment Red, from dark to brightest

Channel 6 – Green 2 ⚠️ **DMX CH12-13 must be open** ⚠️
 0-255 Gradual adjustment Green, from dark to brightest

Channel 7 – Blue 2 ⚠️ **DMX CH12-13 must be open** ⚠️
 0-255 Gradual adjustment Blue, from dark to brightest

Channel 8 – White 2 ⚠️ **DMX CH12-13 must be open** ⚠️
 0-255 Gradual adjustment White, from dark to brightest

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-
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-
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-

Channel 97 – Red 25 ⚠️ **DMX CH12-13 must be open** ⚠️
 0-255 Gradual adjustment Red, from dark to brightest

Channel 98 – Green 25 ⚠️ **DMX CH12-13 must be open** ⚠️
 0-255 Gradual adjustment Green, from dark to brightest

Channel 99 – Blue 25 ⚠️ **DMX CH12-13 must be open** ⚠️
 0-255 Gradual adjustment Blue, from dark to brightest

Channel 100 – White 25 ⚠️ **DMX CH12-13 must be open** ⚠️
 0-255 Gradual adjustment White, from dark to brightest

DMX 100+15 channels (ArtNet + DMX mode)

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 – Continuous horizontal movement (Pan)

0 Stop
 1-127 Counterclockwise rotation, from slow to fast
 128-255 Clockwise rotation, from slow to fast

Channel 7 – Continuous vertical movement (Tilt)

0 Stop
 1-127 Counterclockwise rotation, from slow to fast
 128-255 Clockwise rotation, from slow to fast

Channel 8 – Red  DMX CH12-13 must be open 

0-255 Gradual adjustment Red, from dark to brightest

Channel 9 – Green  DMX CH12-13 must be open 

0-255 Gradual adjustment Green, from dark to brightest

Channel 10 – Blue  DMX CH12-13 must be open 

0-255 Gradual adjustment Blue, from dark to brightest

Channel 11 – White  DMX CH12-13 must be open 

0-255 Gradual adjustment White, from dark to brightest

Channel 12 – Master dimmer

0-255 Dimmer intensity, from OFF to full ON

Channel 13 – Shutter / Strobe  DMX CH12 must be open 

0-19 Close
 20-24 Shutter open
 25-64 Strobe effect 1, from fast to slow
 65-69 Shutter open
 70-84 Strobe effect 2 (fast on and slow off), from fast to slow
 85-89 Shutter open
 90-104 Strobe effect 3 (slow on and fast off), from fast to slow
 105-109 Shutter open
 110-124 Strobe effect 4 (random strobe), from fast to slow
 125-129 Shutter open
 130-144 Strobe effect 5 (random strobe fast on and slow off), from fast to slow
 145-149 Shutter open
 150-164 Strobe effect 6 (random strobe slow on and fast off), from fast to slow
 165-169 Shutter open
 170-184 Strobe effect 7 (pulse strobe), from fast to slow
 185-189 Shutter open
 190-204 Strobe effect 8 (random pulse frequency strobe), from fast to slow
 205-209 Shutter open
 210-224 Strobe effect 9 (strobe light, gradually destroy), from fast to slow
 225-229 Shutter open
 230-244 Strobe effect 10 (pulse strobe), from fast to slow
 245-255 Shutter open

Channel 14 – Functions

0-19	Not functional
20-24	RGBW color mixing, after 5 seconds
25-29	CMY color mixing, after 5 seconds
30-49	Not functional
50-54	Pan reset, after 5 seconds
55-59	Tilt reset, after 5 seconds
60-69	Not functional
70-74	Pan/Tilt reset, after 5 seconds
75-79	Not functional, after 5 seconds
80-114	Pan/Tilt fast, after 5 seconds
115-119	Pan/Tilt slow, after 5 seconds
120-124	Cooling fan slow, after 5 seconds
125-129	Cooling fan full speed, after 5 seconds
130-134	Cooling fan temperature dependent, after 5 seconds
135-139	Fast dimmer, after 5 seconds
140-144	Slow dimmer, after 5 seconds
145-255	Not functional

Channel 15 – Moving head built-in programs

0-7	Not functional
8-23	Built-in program 1
24-39	Built-in program 2
40-55	Built-in program 3
56-71	Built-in program 4
72-87	Built-in program 5
88-103	Built-in program 6
104-119	Built-in program 7
120-135	Built-in program 8
136-151	Built-in program 9
152-167	Built-in program 10
168-183	Built-in program 11
184-199	Built-in program 12
200-215	Built-in program 13
216-231	Built-in program 14
232-247	Built-in program 15
248-255	Built-in program 16

Connecting to a Network

ArtNet settings

- 01) Install any ArtNet-based software on your PC (Windows, Mac or user console with ArtNet support).
- 02) Connect the power supply to the Infinity.
- 03) Connect the device's Ethernet connector IN **(08)** 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 than one fixture, 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) If you have reached the DMX limit of 512 channels, while connecting multiple Infinities, set the universe of the following Infinity to **2** and its DMX address to **001**.
- 06) Repeat step 5 up to 255 times (as there are 255 universes available).
- 07) Using your software, map all the connected devices, using the settings described above.
- 08) The Infinities are now ready for use.
- 09) 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 iM-2515.

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:

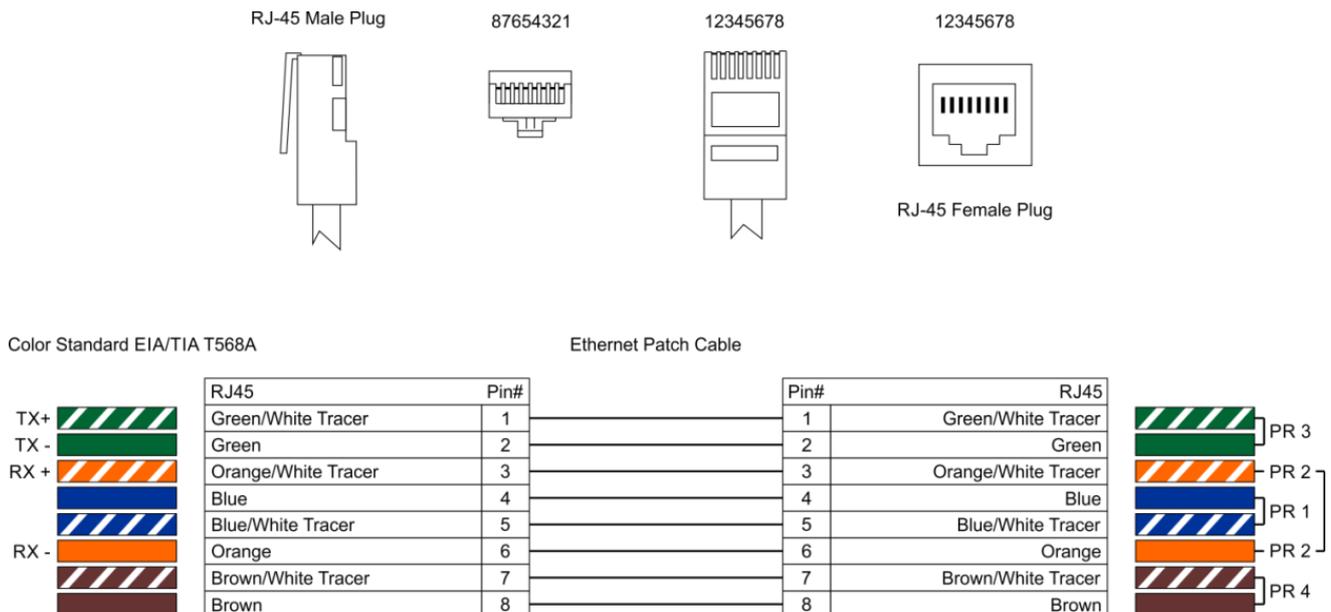


Fig. 08

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 iM-2515 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.

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 Infinity to your Infinity dealer.
- 03) The fuse. Replace the fuse. See page 46 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	<ul style="list-style-type: none"> Check if power is switched on and cables are plugged in
	Primary fuse blown	<ul style="list-style-type: none"> Replace fuse
Fixtures reset correctly, but all respond erratically or not at all to the controller	The controller is not connected.	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Inspect connections and cables. Correct poor connections. Repair or replace damaged cables
	Data link not terminated with 120 Ohm termination plug	<ul style="list-style-type: none"> Insert termination plug in output jack of the last fixture on the link
	Incorrect addressing of the fixtures	<ul style="list-style-type: none"> Check address setting
	One of the fixtures is defective and disturbs data transmission on the link	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Disconnect the fixture and return it to your dealer
	The power supply settings do not match local AC voltage and frequency	<ul style="list-style-type: none"> Disconnect fixture. Check settings and correct if necessary

Product Specifications

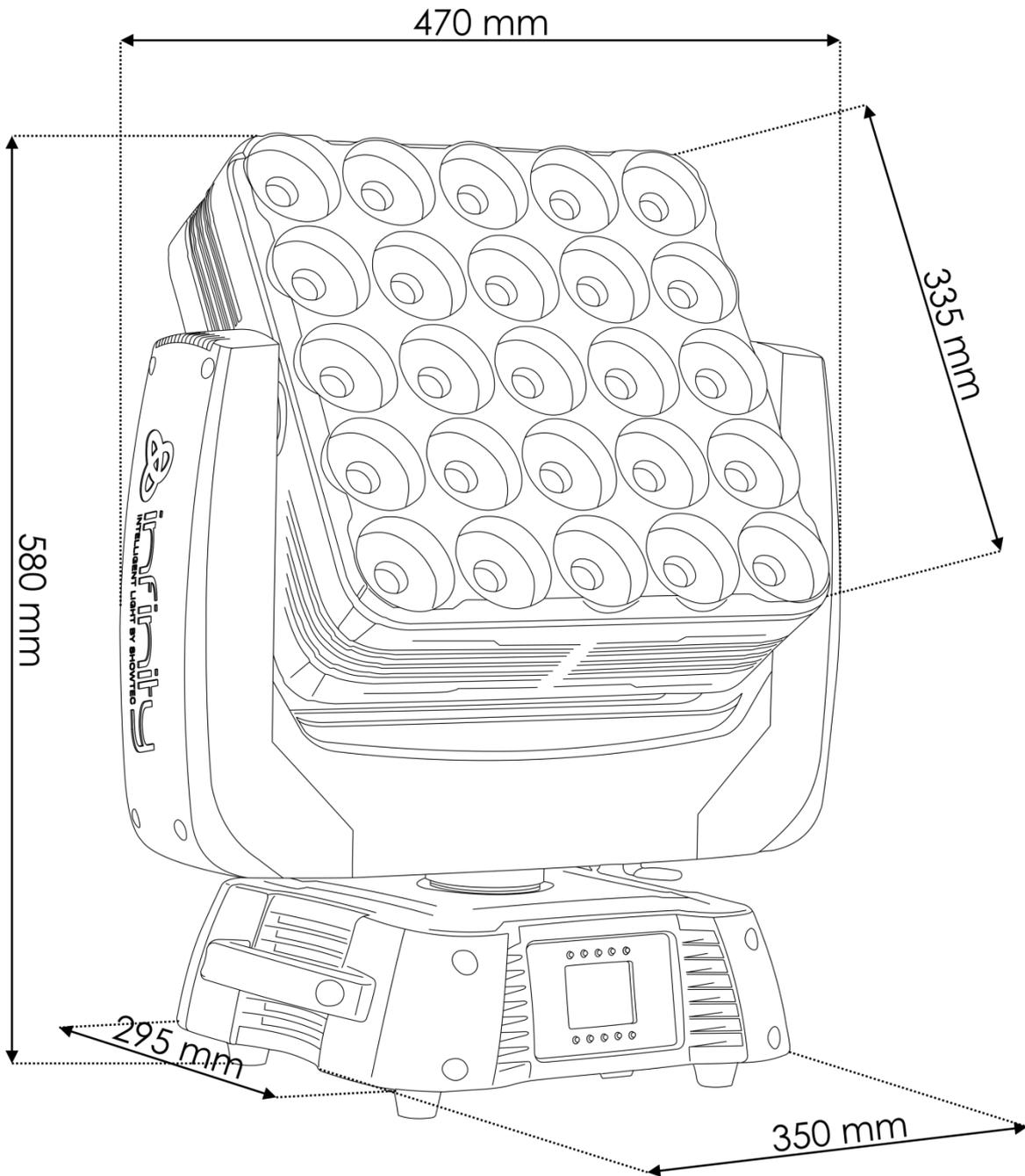
Model:	Infinity iM-2515
Input Voltage:	100-240V AC, 50/60Hz
Power consumption:	510W (full output)
DMX linking:	30pcs
Fuse:	F10AL/250V
Dimensions:	470 x 295 x 580 mm (LxWxH)
Weight:	22 kg
Operating and Programming:	
Signal pin OUT:	Pin 1 (earth), pin 2 (-), pin 3 (+)
DMX Mode:	23, 123, 100+15 channels
Signal input:	3-pin/5-pin XLR IN
Signal output:	3-pin/5-pin XLR OUT
Electro-mechanical effects:	
Light source:	25 x 15W RGBW 4-in-1 Osram Ostar
Light output:	11700 lumen
Color mixing:	RGBW, CMY
Color temperature:	19000K
Beam angle:	4,5°
Dimmer:	0-100%
Strobe:	0-20Hz
Pan:	540°
Tilt:	270°
Dimming curves:	Linear, Square, I-Square, S-curve
Housing:	Metal & flame retardant plastic
IP rating:	IP20
DMX control:	via standard DMX-controller
Onboard:	LCD display with gravity sensor
Control:	Stand-alone, Master/Slave, DMX-512, DMX-512+ArtNet
Connections:	Dedicated PowerCON to Schuko & Data connector
Max. ambient temperature t_a :	40°C
Max. housing temperature t_B :	80°C
Minimum distance:	
Minimum distance from flammable surfaces:	0,5 m
Minimum distance to lighted object:	2 m

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



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

Dimensions





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