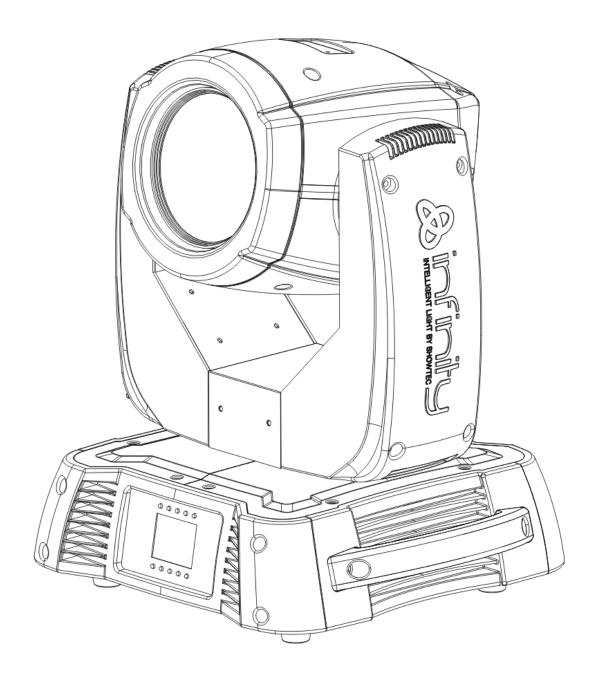


# **MANUAL**



**ENGLISH** 

# Infinity iB-5R

Ordercode: 41530

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### Warning



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



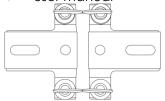
### **Unpacking Instructions**

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:

- Showtec Infinity iB-5R LED Spot with Powercon powercable 0,9m
- 2 brackets for truss mounting
- Safety eye









### **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 extending the device's lifespan 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 your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

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

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



### **IMPORTANT:**

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

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



CAUTION! Eyedamages!!!

Avoid looking directly into the lightsource!!!

(meant especially for epileptics)!!!





### **Operating Determinations**

- This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.
- The minimum distance between light-output and the illuminated surface must be more than 1 meter.
- The maximum ambient temperature ta = 45°C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 40° C.
- If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.
- Any other operation may lead to dangers like short-circuit, burns, electric shock, crash etc.

You endanger your own safety and the safety of others!

### Rigging

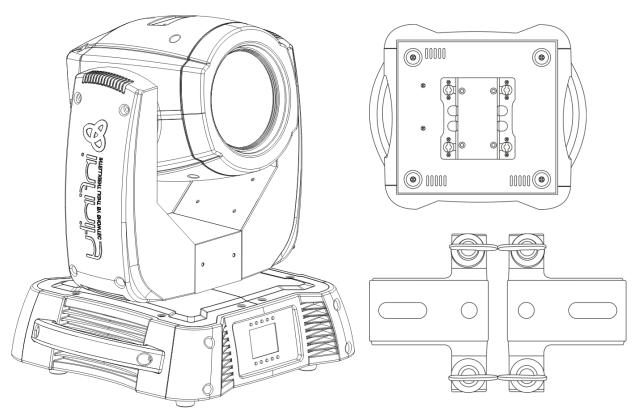
Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

Do not attempt the installation yourself!

Always let the installation be carried out by an authorized dealer!

### Procedure:

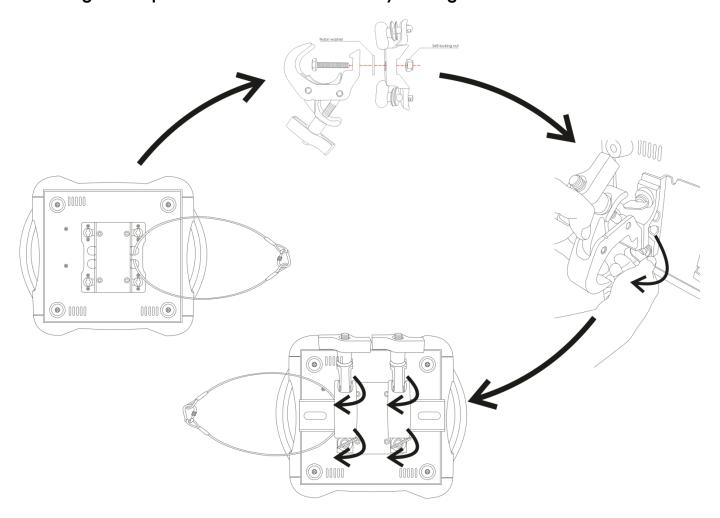
- If the projector is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the projector, with the mounting-bracket, to the trussing system.
- The projector must never be fixed swinging freely in the room.
- The installation must always be secured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



The Infinity can be placed on a flat stage floor or mounted to any kind of truss by a clamp.



# Mounting a clamp to the underside of the Infinity moving head



Improper installation can cause serious damage to people and property!



### Connection with the mains

Connect the device to the mains with the power-plug.

Always pay attention, that the right color cable is connected to the right place.

<u>International</u>	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	PHASE
N	BLUE	BLACK	SILVER	NULL
<b>(</b>	YELLOW/GREEN	GREEN	GREEN	EARTH

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





### **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 <a href="mailto:aftersales@highlite.nl">aftersales@highlite.nl</a> 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.



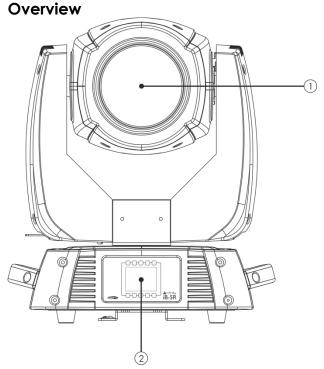
# Description of the device

### **Features**

The Showtec Infinity iB-5R is a moving-head with high output and great effects.

- Beam effect
- High torque motors
- Ultra-fast movements
- Quick lock screws on the covers allow you to change gobos within minutes without the need of any special tools
- On-Board: Battery powered full color display including gravity sensor
- On-Board: 16x2 Character display
- DMX-control via standard DMX-controller
- User-selectable Pan & Tilt ranges, 540° / 360° / 180° / 90°
- Reverse Pan / Tilt movement
- Special: Pan / Tilt movement, Color, Gobo change blackout
- Pan 0° -- 540°, Tilt 0° -- 270°
- Pan/Tilt resolution: 16 bit
- Control: DMX-512, Built-in Programs
- Gobowheel: Static Gobowheel with 17 metal gobos and open
- Gobo functions: Gobo-flow effect, Gobo shake
- Colorwheel: 14 dichroic-filters and white
- Color functions: Split colors, Rainbow-flow effect
- Rotation: Bi-directional
- Prism: 8-facet rotating prism
- Frost Filter
- 10 Built in programs selectable by DMX
- Light Source: Osram Sirius HRI 230W included
- Lamp socket: E20.6
- Color temp.: 8000K
- Beam Angle: 1°-3,8° Electronic adjustment
- Input Voltage: 100-240 VAC
- Continuous Power 385W max. at full output
- Dimmer: 0-100% Mechanical
- Strobe: 0-20Hz
- Focus: Motorized
- Housing: Black Metal & Flame-retardant plastic
- Fixture Connection: XLR Data in/out (XLR 3-pin + XLR 5-pin)
- Neutrik Powercon IN
- User selectable Basic (15CH) or Advanced (18CH) operating modes
- Fuse F7AL / 250V
- Dimensions: 346 x 417 x 490 mm (LxWxH)
- Weight: 20,5 kg
- Minimum distance to lighted objects: 12m





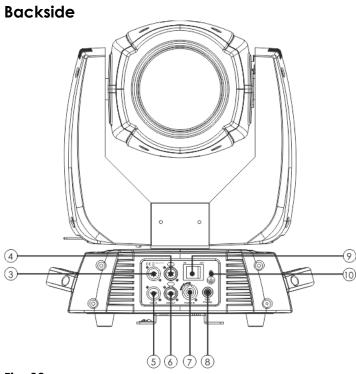


Fig. 01

- 01) Lens
- 02) LCD Display
- 03) DMX signal connector (IN) 5-pin
- 04) DMX signal connector (OUT) 5-pin
- 05) DMX signal connector (IN) 3-pin

- Fig. 02
  - 06) DMX signal connector (OUT) 3-pin
  - 07) Neutrik Powercon IN
  - 08) Fuse 7AL/250V
  - 09) ON/OFF
  - 10) Earth connection

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

### Installation

Remove all packing materials from the Infinity iB-5R. Check that all foam and plastic padding is removed. Connect all cables.

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

# **Set Up and Operation**

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

### **Control Modes**

There are 2 modes: Stand-alone (built-in programs)
DMX512 (15 or 18 Channels)

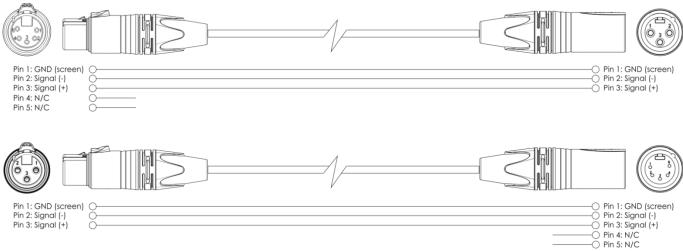
### One Infinity (Built-in Programs)

- 01) Fasten the effect light onto firm trussing. Leave at least 1 meter on all sides for air circulation.
- 02) Always use a safety cable (ordercode 70140 / 70141).
- 03) Plug the end of the electric mains power cord into a proper electric power supply socket.
- 04) When the Infinity is not connected by a DMX-cable, it functions as a stand-alone device.
- 05) Please see page 16 for more information about the built-in programs.



### Multiple Infinity's (DMX Control)

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



- 05) Link the units as shown in (figure 3), Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units.
- 06) Supply electric power: Plug electric mains power cords into each unit's IEC 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 Infinity's DMX Set Up

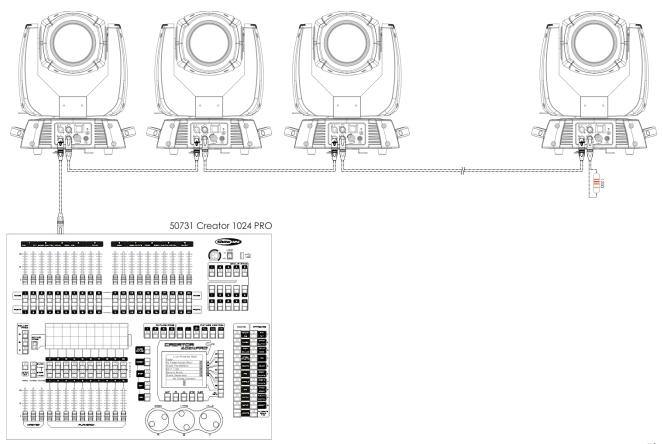


Fig. 03

Note: Link all cables before connecting electric power



### **Fixture Linking**

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

Important:

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



Maximum recommended DMX data link distance: 100 meters
Maximum recommended number of Infinitys on a DMX data link: 30 fixtures

### **Data Cabling**

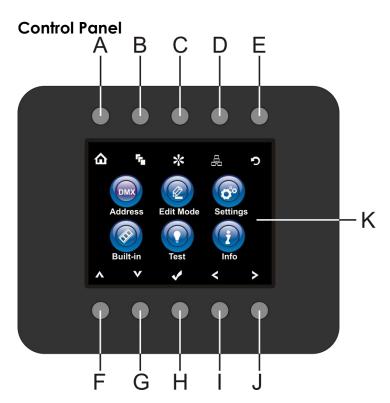
To link fixtures together you must obtain data cables. You can purchase DAP Audio certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic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

### **DAP Audio Certified DMX Data Cables**

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

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





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

Fig. 04

### **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 18 channels.

When using multiple Infinity's, make sure you set the DMX addresses right.

Therefore, the DMX address of the first Infinity's should be 1(001); the DMX address of the second Infinity should be 1+18=19 (019); the DMX address of the third Infinity should be 19+18=37 (037), etc.

Please, be sure that you don't have any overlapping channels in order to control each Infinity correctly. If two or more Infinity's are addressed similarly, they will work similarly.

### Controlling:

After having addressed all Infinity fixtures, you may now start operating these via your lighting controller. **Note:** After switching on, the Infinity will automatically detect whether DMX 512 data is received or not. If there is no data received at the DMX-input, the "**LED**" on the control panel will not flash. The problem may be:

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

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



### **Menu Overview**





### **Main Menu Options**



DMX address



Edit Mode



Settings Menu



**Built-in Programs** 



Test Mode



Info



Home



Edit Menu



Setting Mode



Address Setting



Infinity Logo



Up



Down



 $\mathsf{OK}$ 



Left



Right

### 1. DMX Addressing

With this menu you can set the DMX address.





button and select



button, to confirm. You can choose 512 different DMX addresses. Use the Left /Right / Up / Down buttons to select the required address from 001







03) Once you have set the desired DMX address, press the



button to store your DMX address.

### 2. Edit Mode

With this menu you can set your desired mode.



02) Press the button, to confirm. You can choose 3 different modes.
Use the Up / Down buttons to select the required mode:



- 03) Once you have selected the desired mode, press the buttons to change the value from No to YES.
- 04) Once you have selected the desired setting, press the button to store your settings.
- 05) If the device has been set to master, all slave devices will follow the master movement.
- 06) If the device has been set to slave, it will react the same as its master device.

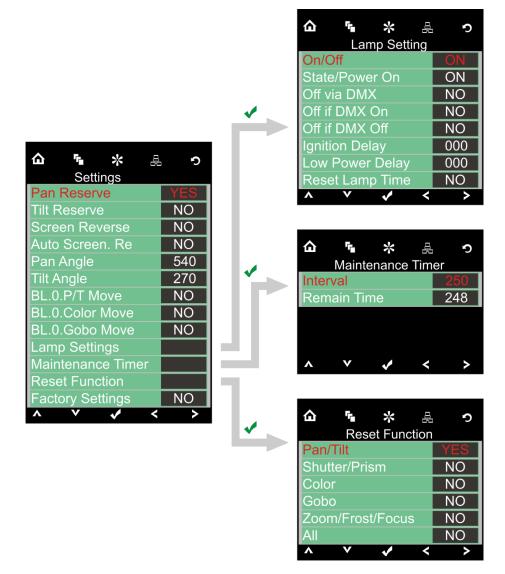
### 3. Settings Menu

With this menu you can set your desired mode.



02) Press the button, to confirm. You can choose 13 different modes. Use the Up / Down buttons to select the required mode:







buttons to change the value from 03) Once you have selected the desired mode, press the No to YES. 04) A couple of menus have more options, then your regular, yes or no function: 540°, 360°, 180° Pan Angle: 270°, 180°, 90° Tilt Angle: 05) If you press the OK button at the Lamp Setting menu, a new Menu will open. Lamp Setting On/Off [No/Yes] 06) In the Lamp Setting menu you can set 8 options: State/Power On [No/Yes] Off via DMX [No/Yes] Off if DMX on [No/Yes] Off if DMX off [No/Yes] Ignition Delay [000-255] Low Power Delay [000-255] Reset Lamp Time [No/Yes]

07) In the Maintenance Timer menu you can set 2 options: Interval [000-255]

Remain Time [000-255]

08) If you press the OK button at the Reset function, a new Menu will open

09) You can set 6 different reset options: Pan/Tilt

Shutter/Prism

Color Gobo

Zoom/Frost/Focus

Reset All

10) Once you have selected the desired setting, press the

button to store your settings.

### 4. Built-in Programs

With this menu you can set your desired mode.

01) Press the button and select

02) Press the button, to confirm. You can choose 10 different modes.
Use the Up / Down buttons to select the required mode:

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

03) Once you have selected the desired mode, press the buttons to change the value from No to YES.

04) Once you have selected the desired setting, press the button to store your settings.

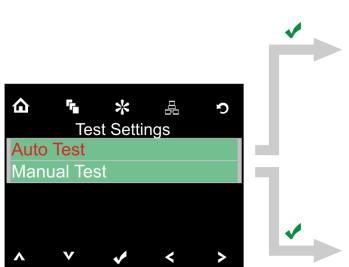


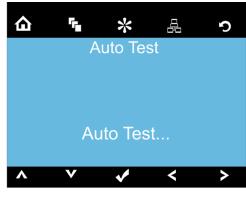
### 5. Test Menu

With this menu you can set your desired mode.

01) Press the button and select

02) Press the button, to confirm. You can choose 2 different modes. Use the Up / Down buttons to select the required mode:







- 03) Once you have selected the desired mode, press the buttons to change the value from 000 to 255.
- 04) If you press the OK button at the Manual Test, a new Menu will open.
- 05) You can set 18 different Test options.
- 06) Once you have selected the desired setting, press the button to store your settings.



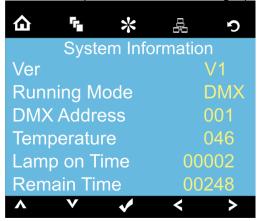
### 6. Information Menu

With this menu you can set your desired mode.



02) Press the button, to confirm.

03) You can only view 6 current settings, you cannot change anything





### **DMX Channels**

### 18 Channels (Advanced)

### 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 - 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 3 - Pan fine 16 bit

### Channel 4 - Tilt fine 16 bit

### Channel 5 - PAN/TILT Speed

0-255

0-255 From Max Speed (0) to Min. Speed (255)

# Channel 6 –Dimmer intensity (CH8 must be open 🔼)

From black to brightest

Channel 7 –Dimmer Fine (CH8 must be open 🗘

0-255 From black to brightest

# Channel 8 – Shutter / Strobe (CH6 must be open 🔼)

0-7	Close
8-15	Shutter open
16-131	Strobe effect, from slow to fast (0-10 flashes/sec.)
132-167	Fast close/shutter and slow opening, from slow to fast (0-10 flashes/sec.)
168-203	Slow close/shutter and fast opening, from slow to fast (0-10 flashes/sec.)
204-239	Pulse strobe effect, from slow to fast (0-10 flashes/sec.)
240-247	Random strobe effect, from slow to fast (0-10 flashes/sec.)
248-255	Shutter open



### Channel 9 - Colourwheel

Linear color change following the movement of the slider. Between 128-189 and 194-255, the color-wheel rotates continuously the so-called "Rainbow" effect.

0-4	Open / White
5-8	Red
9-12	Deep Yellow/Orange
13-16	Turquoise
17-20	Green
21-24	Light Green/Yellow
25-28	Light Blue/Purple
29-32	Rose Red
33-36	Light Yellow
37-40	Pink
41-44	Blue
45-48	Warm White
49-52	½ CTO
53-56	Cool White
57-60	UV
61-127	Split Color
128-189	Clockwise rotation (CW) rainbow effect from fast to slow
190-193	Stop
194-255	Counter-clockwise rotation (CCW) rainbow effect from slow to fast



### Channel 10 – Static Gobo-wheel + Gobo Shake

0-3	Open / White
4-6	Gobo 1
7-9	Gobo 2
10-12	Gobo 3
13-15	Gobo 4
16-18	Gobo 5
19-21	Gobo 6
22-24	Gobo 7
25-27	Gobo 8
28-30	Gobo 9
31-33	Gobo 10
34-36	Gobo 11
37-39	Gobo 12
40-42	Gobo 13
43-45	Gobo 14
46-48	Gobo 15
49-51	Gobo 16
52-55	Gobo 17
56-59	Open / White
60-63	Gobo Shake 1 from slow to fast
64-67	Gobo Shake 2 from slow to fast
68-71	Gobo Shake 3 from slow to fast
72-75	Gobo Shake 4 from slow to fast
76-79	Gobo Shake 5 from slow to fast
80-83	Gobo Shake 6 from slow to fast
84-87	Gobo Shake 7 from slow to fast
88-91	Gobo Shake 8 from slow to fast
92-95	Gobo Shake 9 from slow to fast
96-99	Gobo Shake 10 from slow to fast
100-103	Gobo Shake 11 from slow to fast
104-107	Gobo Shake 12 from slow to fast
108-111	Gobo Shake 13 from slow to fast





112-115	Gobo Shake 14 from slow to fast
116-119	Gobo Shake 15 from slow to fast
120-123	Gobo Shake 16 from slow to fast
124-127	Gobo Shake 17 from slow to fast
128-189	Clockwise rotation (CW) rainbow effect from fast to slow
190-193	Open
194-255	Counter-clockwise rotation (CCW) rainbow effect from slow to fast

### Channel 11 – Prism

0-4	Open
5-255	8-facet Prism Effect

### Channel 12 – Prism rotation

0-127	Prism-indexing
128-189	Clockwise rotation (CW) from fast to slow
190-193	Stop
194-255	Counter-clockwise rotation (CCW) from slow to fast

### Channel 13 – Prism Enlarge

0-255 Prism enlarge from big to small

### Channel 14 - Focus

0-255 Prism enlarge from big to small

### Channel 15 – Frost Effect

0-255 Frost Effect

### **Channel 16 - Channel Functions**

0	
0-29	No Function
30-39	Regular Dim Mode
40-49	Linear Dim Mode
50-59	X/Y Fast Mode
60-69	X/Y Regular
70-79	Blackout during Pan/Tilt movement
80-89	Disable blackout during Pan/Tilt movement
90-99	Color wheel blackout during color wheel movement
100-109	Interrupt disabling shade
110-119	Design interruption allows
120-129	Interrupt disabling pattern
130-139	Open
140-149	Reset Pan/Tilt after 3 seconds
150-159	Reset Color wheel rotation after 3 seconds
160-169	Reset Gobo rotation after 3 seconds
170-179	Reset Shutter/Prism after 3 seconds
180-189	No Function
190-199	Reset Frost Effect / Focus
200-209	Reset All
210-219	Allows all interrupt
220-229	All interrupt disabling
230-239	Close
240-247	XY Smoothing model open
248-255	XY Smoothing model to shut down



Channel 17 – Built-in Programs (CH6 and CH8 must be open 17

8-15 Built-in Program 1 16-23 Built-in Program 2 24-31 Built-in Program 3 32-39 Built-in Program 4 40-47 Built-in Program 5 48-55 Built-in Program 6 56-63 Built-in Program 7 64-71 Built-in Program 8 72-79 Built-in Program 9 80-87 Built-in Program 10 88-95 Built-in Program 11 96-103 Built-in Program 12 104-111 Built-in Program 13 112-119 Built-in Program 14 120-127 Built-in Program 15 128-135 Built-in Program 16 136-143 Built-in Program 18 152-159 Built-in Program 19 160-167 Built-in Program 20 168-175 Built-in Program 21 176-183 Built-in Program 21 176-184 Built-in Program 22 184-191 Built-in Program 24 200-207 Built-in Program 25 208-215 Built-in Program 27 224-231 Built-in Program 27 224-231 Built-in Program 29 240-247 Built-in Program 30 248-255 Built-in Program 31	0-7	No Function
24-31 Built-in Program 3 32-39 Built-in Program 4 40-47 Built-in Program 5 48-55 Built-in Program 6 56-63 Built-in Program 7 64-71 Built-in Program 8 72-79 Built-in Program 9 80-87 Built-in Program 10 88-95 Built-in Program 11 96-103 Built-in Program 12 104-111 Built-in Program 13 112-119 Built-in Program 14 120-127 Built-in Program 15 128-135 Built-in Program 16 136-143 Built-in Program 17 144-151 Built-in Program 18 152-159 Built-in Program 19 160-167 Built-in Program 20 168-175 Built-in Program 21 176-183 Built-in Program 22 184-191 Built-in Program 23 192-199 Built-in Program 24 200-207 Built-in Program 25 208-215 Built-in Program 27 214-231 Built-in Program 28 232-239 Built-in Program 29 240-247 Built-in Program 29	8-15	Built-in Program 1
32-39 Built-in Program 4 40-47 Built-in Program 5 48-55 Built-in Program 6 56-63 Built-in Program 7 64-71 Built-in Program 8 72-79 Built-in Program 9 80-87 Built-in Program 10 88-95 Built-in Program 11 96-103 Built-in Program 12 104-111 Built-in Program 13 112-119 Built-in Program 14 120-127 Built-in Program 15 128-135 Built-in Program 16 136-143 Built-in Program 17 144-151 Built-in Program 18 152-159 Built-in Program 18 152-159 Built-in Program 20 168-175 Built-in Program 20 168-175 Built-in Program 21 176-183 Built-in Program 23 192-199 Built-in Program 24 200-207 Built-in Program 25 208-215 Built-in Program 26 216-223 Built-in Program 28 232-239 Built-in Program 29 240-247 Built-in Program 29	16-23	Built-in Program 2
40-47 Built-in Program 5 48-55 Built-in Program 6 56-63 Built-in Program 7 64-71 Built-in Program 8 72-79 Built-in Program 9 80-87 Built-in Program 10 88-95 Built-in Program 11 96-103 Built-in Program 12 104-111 Built-in Program 13 112-119 Built-in Program 14 120-127 Built-in Program 15 128-135 Built-in Program 16 136-143 Built-in Program 17 144-151 Built-in Program 18 152-159 Built-in Program 19 160-167 Built-in Program 20 188-175 Built-in Program 21 176-183 Built-in Program 23 192-199 Built-in Program 24 200-207 Built-in Program 25 208-215 Built-in Program 27 224-231 Built-in Program 28 232-239 Built-in Program 29 240-247 Built-in Program 29 240-247 Built-in Program 29	24-31	Built-in Program 3
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56-63         Built-in Program 7           64-71         Built-in Program 8           72-79         Built-in Program 9           80-87         Built-in Program 10           88-95         Built-in Program 11           96-103         Built-in Program 12           104-111         Built-in Program 13           112-119         Built-in Program 14           120-127         Built-in Program 15           128-135         Built-in Program 16           136-143         Built-in Program 17           144-151         Built-in Program 18           152-159         Built-in Program 19           160-167         Built-in Program 20           168-175         Built-in Program 21           176-183         Built-in Program 23           192-199         Built-in Program 24           200-207         Built-in Program 25           208-215         Built-in Program 26           216-223         Built-in Program 27           224-231         Built-in Program 29           240-247         Built-in Program 30	40-47	Built-in Program 5
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72-79 Built-in Program 9 80-87 Built-in Program 10 88-95 Built-in Program 11 96-103 Built-in Program 12 104-111 Built-in Program 13 112-119 Built-in Program 14 120-127 Built-in Program 15 128-135 Built-in Program 16 136-143 Built-in Program 17 144-151 Built-in Program 18 152-159 Built-in Program 19 160-167 Built-in Program 20 168-175 Built-in Program 21 176-183 Built-in Program 22 184-191 Built-in Program 23 192-199 Built-in Program 24 200-207 Built-in Program 25 208-215 Built-in Program 27 224-231 Built-in Program 28 232-239 Built-in Program 29 240-247 Built-in Program 29	56-63	
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112-119       Built-in Program 14         120-127       Built-in Program 15         128-135       Built-in Program 16         136-143       Built-in Program 17         144-151       Built-in Program 18         152-159       Built-in Program 19         160-167       Built-in Program 20         168-175       Built-in Program 21         176-183       Built-in Program 22         184-191       Built-in Program 23         192-199       Built-in Program 24         200-207       Built-in Program 25         208-215       Built-in Program 26         216-223       Built-in Program 28         232-239       Built-in Program 29         240-247       Built-in Program 30	96-103	Built-in Program 12
120-127 Built-in Program 15 128-135 Built-in Program 16 136-143 Built-in Program 17 144-151 Built-in Program 18 152-159 Built-in Program 19 160-167 Built-in Program 20 168-175 Built-in Program 21 176-183 Built-in Program 22 184-191 Built-in Program 23 192-199 Built-in Program 24 200-207 Built-in Program 25 208-215 Built-in Program 26 216-223 Built-in Program 27 224-231 Built-in Program 28 232-239 Built-in Program 29 240-247 Built-in Program 30	104-111	Built-in Program 13
128-135       Built-in Program 16         136-143       Built-in Program 17         144-151       Built-in Program 18         152-159       Built-in Program 19         160-167       Built-in Program 20         168-175       Built-in Program 21         176-183       Built-in Program 22         184-191       Built-in Program 23         192-199       Built-in Program 24         200-207       Built-in Program 25         208-215       Built-in Program 26         216-223       Built-in Program 27         224-231       Built-in Program 29         240-247       Built-in Program 30	112-119	Built-in Program 14
136-143       Built-in Program 17         144-151       Built-in Program 18         152-159       Built-in Program 19         160-167       Built-in Program 20         168-175       Built-in Program 21         176-183       Built-in Program 22         184-191       Built-in Program 23         192-199       Built-in Program 24         200-207       Built-in Program 25         208-215       Built-in Program 26         216-223       Built-in Program 27         224-231       Built-in Program 29         240-247       Built-in Program 30		Built-in Program 15
144-151       Built-in Program 18         152-159       Built-in Program 19         160-167       Built-in Program 20         168-175       Built-in Program 21         176-183       Built-in Program 22         184-191       Built-in Program 23         192-199       Built-in Program 24         200-207       Built-in Program 25         208-215       Built-in Program 26         216-223       Built-in Program 27         224-231       Built-in Program 29         240-247       Built-in Program 30	128-135	Built-in Program 16
152-159       Built-in Program 19         160-167       Built-in Program 20         168-175       Built-in Program 21         176-183       Built-in Program 22         184-191       Built-in Program 23         192-199       Built-in Program 24         200-207       Built-in Program 25         208-215       Built-in Program 26         216-223       Built-in Program 27         224-231       Built-in Program 28         232-239       Built-in Program 30	136-143	Built-in Program 17
160-167       Built-in Program 20         168-175       Built-in Program 21         176-183       Built-in Program 22         184-191       Built-in Program 23         192-199       Built-in Program 24         200-207       Built-in Program 25         208-215       Built-in Program 26         216-223       Built-in Program 27         224-231       Built-in Program 28         232-239       Built-in Program 30	144-151	Built-in Program 18
168-175       Built-in Program 21         176-183       Built-in Program 22         184-191       Built-in Program 23         192-199       Built-in Program 24         200-207       Built-in Program 25         208-215       Built-in Program 26         216-223       Built-in Program 27         224-231       Built-in Program 28         232-239       Built-in Program 29         240-247       Built-in Program 30	152-159	Built-in Program 19
176-183       Built-in Program 22         184-191       Built-in Program 23         192-199       Built-in Program 24         200-207       Built-in Program 25         208-215       Built-in Program 26         216-223       Built-in Program 27         224-231       Built-in Program 28         232-239       Built-in Program 29         240-247       Built-in Program 30	160-167	Built-in Program 20
184-191       Built-in Program 23         192-199       Built-in Program 24         200-207       Built-in Program 25         208-215       Built-in Program 26         216-223       Built-in Program 27         224-231       Built-in Program 28         232-239       Built-in Program 29         240-247       Built-in Program 30	168-175	
192-199       Built-in Program 24         200-207       Built-in Program 25         208-215       Built-in Program 26         216-223       Built-in Program 27         224-231       Built-in Program 28         232-239       Built-in Program 29         240-247       Built-in Program 30	176-183	Built-in Program 22
200-207       Built-in Program 25         208-215       Built-in Program 26         216-223       Built-in Program 27         224-231       Built-in Program 28         232-239       Built-in Program 29         240-247       Built-in Program 30	184-191	Built-in Program 23
208-215       Built-in Program 26         216-223       Built-in Program 27         224-231       Built-in Program 28         232-239       Built-in Program 29         240-247       Built-in Program 30	192-199	
216-223       Built-in Program 27         224-231       Built-in Program 28         232-239       Built-in Program 29         240-247       Built-in Program 30	200-207	Built-in Program 25
224-231 Built-in Program 28 232-239 Built-in Program 29 240-247 Built-in Program 30	208-215	Built-in Program 26
232-239 Built-in Program 29 240-247 Built-in Program 30	216-223	
240-247 Built-in Program 30		
	232-239	Built-in Program 29
248-255 Built-in Program 31	240-247	Built-in Program 30
	248-255	Built-in Program 31

# Channel 18 – Built-in Speed; Use in combination with CH17

0-255 From slow to fastest



### 15 Channels (Basic)

### 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 – 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 3 - Pan fine 16 bit

### Channel 4 - Tilt fine 16 bit

### Channel 5 - PAN/TILT Speed

0-255 From Max Speed (0) to Min. Speed (255)

### Channel 6 -Dimmer intensity (CH7 must be open 0-255

From black to brightest

# Channel 7 – Shutter / Strobe (CH6 must be open 🔼)

0-7	Close
8-15	Shutter open
16-131	Strobe effect, from slow to fast (0-10 flashes/sec.)
132-167	Fast close/shutter and slow opening, from slow to fast (0-10 flashes/sec.)
168-203	Slow close/shutter and fast opening, from slow to fast (0-10 flashes/sec.)
204-239	Pulse strobe effect, from slow to fast (0-10 flashes/sec.)
240-247	Random strobe effect, from slow to fast (0-10 flashes/sec.)
248-255	Shutter open

### Channel 8 – Colourwheel

Linear color change following the movement of the slider. Between 128-189 and 194-255, the color-wheel rotates continuously the so-called "Rainbow" effect.

0-4	Open / White
5-8	Red
9-12	Deep Yellow/Orange
13-16	Turquoise
17-20	Green
21-24	Light Green/Yellow
25-28	Light Blue/Purple
29-32	Rose Red
33-36	Light Yellow
37-40	Pink
41-44	Blue
45-48	Warm White
49-52	½ CTO
53-56	Cool White
57-60	UV
61-127	Split Color
128-189	Clockwise rotation (CW) rainbow effect from fast to slow
190-193	Stop
194-255	Counter-clockwise rotation (CCW) rainbow effect from slow to fast



### Channel 9 – Static Gobo-wheel + Gobo Shake

0-3	
7-9 Gobo 2	
10-12 Gobo 3	
13-15 Gobo 4	
16-18 Gobo 5	
19-21 Gobo 6	
22-24 Gobo 7	
25-27 Gobo 8	
28-30 Gobo 9	
31-33 Gobo 10	
34-36 Gobo 11	
37-39 Gobo 12	
40-42 Gobo 13	
43-45 Gobo 14	
46-48 Gobo 15	
49-51 Gobo 16	
52-55 Gobo 17	
56-59 Open / White	
60-63 Gobo Shake 1 from slow to fast	
64-67 Gobo Shake 2 from slow to fast	
68-71 Gobo Shake 3 from slow to fast	
72-75 Gobo Shake 4 from slow to fast	
76-79 Gobo Shake 5 from slow to fast	
80-83 Gobo Shake 6 from slow to fast	
84-87 Gobo Shake 7 from slow to fast	
88-91 Gobo Shake 8 from slow to fast	
92-95 Gobo Shake 9 from slow to fast	
96-99 Gobo Shake 10 from slow to fast	
100-103 Gobo Shake 11 from slow to fast	
104-107 Gobo Shake 12 from slow to fast	
108-111 Gobo Shake 13 from slow to fast	
112-115 Gobo Shake 14 from slow to fast	
116-119 Gobo Shake 15 from slow to fast	
120-123 Gobo Shake 16 from slow to fast	
124-127 Gobo Shake 17 from slow to fast	
128-189 Clockwise rotation (CW) rainbow effect from fast to slow	
190-193 Open	
194-255 Counter-clockwise rotation (CCW) rainbow effect from slow to for	ast



### Channel 10 – Prism

0-4	Open
5-255	8-facet Prism Effect

### Channel 11 – Prism rotation

0-127	Prism-indexing
128-189	Clockwise rotation (CW) from fast to slow
190-193	Stop
194-255	Counter-clockwise rotation (CCW) from slow to fast

### Channel 12 – Prism Enlarge

0-255 Prism enlarge from big to small

### Channel 13 – Focus

0-255 Prism enlarge from big to small



### Channel 14 – Frost Effect

0-255 Frost Effect

### Channel 15 – Channel Functions

Chamile 13	Chamile Folicions
0-29	No Function
30-39	Regular Dim Mode
40-49	Linear Dim Mode
50-59	X/Y Fast Mode
60-69	X/Y Regular
70-79	Blackout during Pan/Tilt movement
80-89	Disable blackout during Pan/Tilt movement
90-99	Color wheel blackout during color wheel movement
100-109	Interrupt disabling shade
110-119	Design interruption allows
120-129	Interrupt disabling pattern
130-139	Open
140-149	Reset Pan/Tilt after 3 seconds
150-159	Reset Color wheel rotation after 3 seconds
160-169	Reset Gobo rotation after 3 seconds
170-179	Reset Shutter/Prism after 3 seconds
180-189	No Function
190-199	Reset Frost Effect / Focus
200-209	Reset All
210-219	Allows all interrupt
220-229	All interrupt disabling
230-239	Close
240-247	XY Smoothing model open
248-255	XY Smoothing model to shut down



### **Channel settings**

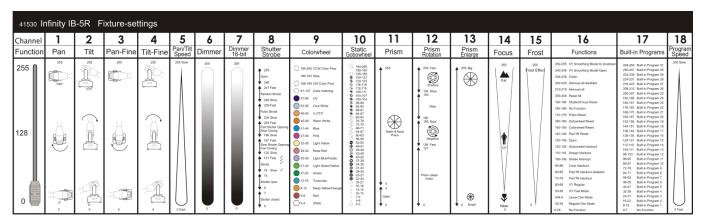


Fig. 05

### Maintenance

The Showtec Infinity iB-5R requires almost no maintenance. However, you should keep the unit clean. Otherwise, the fixture's light-output will be significantly reduced. Disconnect the mains power supply and then wipe the cover with a damp cloth. Wipe the front glass panel clean with glass cleaner and a soft cloth. Do not use alcohol or solvents. The front glass panel will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light-output very quickly. Do not immerse in liquid.

The cooling-fans, colour-wheel, the gobowheel, the gobos and the internal lenses should be cleaned monthly with a soft brush.

Please clean internal components once a year with a light brush and vacuum cleaner.

Keep connections clean. Disconnect electric power, and then wipe the DMX and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

The operator has to make sure that safety-relating 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-relating and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:

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

### Replacing a Fuse

Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out. If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below to do so.

- 01) Unplug the unit from electric power source.
- 02) Insert a screwdriver into the slot in the fuse cover. Turn the screwdriver to the left, at the same time gently push a bit (Turn and Push). The fuse will come out.
- 03) Remove the used fuse. If brown or unclear, it is burned out.
- 04) Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.



# **Battery Replacement**

### (must be carried out by a qualified technician!)

- 01) Unplug the unit from the electric power source.
- 02) Remove the 6 screws on the front side of the Infinity.
- 03) Gently pull the front cover from the device.
- 04) Disconnect the plug from the PCB.
- 05) Remove the 2 screws holding the battery pack in place.
- 06) Replace the old battery pack with a new one.
- 07) Replace the maintenance cap and fasten all screws.

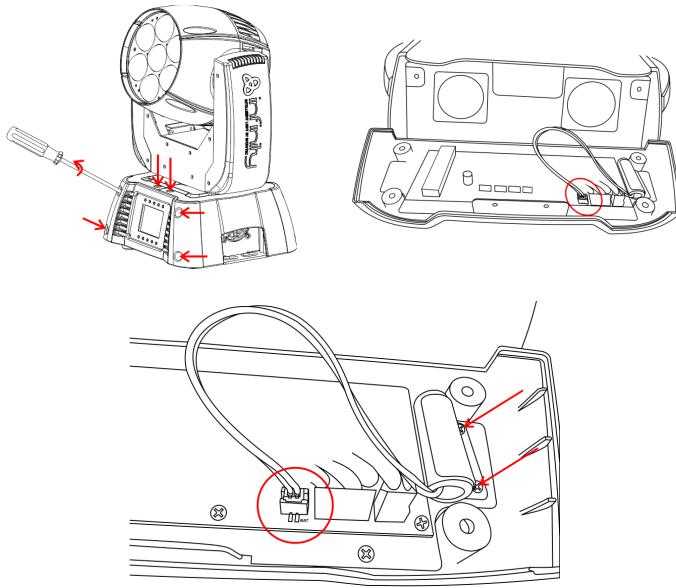


Fig. 06



### **Troubleshooting**

### No Light

This troubleshooting guide is meant to help solve simple problems.

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

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

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

- 01) First try to reset the device to its original factory default settings (3-Settings Menu see page 16).
- 02) Power supply. Check that the unit is plugged into an appropriate power supply.
- 03) The LEDs. Return the Infinity to your Showtec dealer.
- 04) The fuse. Replace the fuse. See page 26 for replacing the fuse.
- 05) If all of the above appears to be O.K., plug the unit in again.
- 06) If you are unable to determine the cause of the problem, do not open the Infinity, as this may damage the unit and the warranty will become void.
- 07) Return the device to your Showtec dealer.

### No Response to DMX

Ordercode: 41530

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

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

See next page for more problem solving.



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



# **Product Specification**

Model: Showtec Infinity iB-5R					
	00-240 VAC				
	385W max. at full output				
Fuse: F	-7AL / 250V				
Dimensions: 3	346 x 417 x 490 mm (LxWxH)				
Weight: 2	20,5 kg				
Operation and Programming					
	oin 1 earth, pin 2 (-), pin 3 (+)				
	.ED control panel				
	8-16 bit				
	8 or 15				
	3-pin and 5-pin XLR male				
Signal output:	3-pin and 5-pin XLR female				
Electro mechanical effects					
Electro-mechanical effects					
On-Board: Battery powered full cold	or alsplay including gravity sensor				
Beam effect					
High torque motors					
Ultra-fast movements					
On-Board: 16x2 Character display					
<ul> <li>DMX-control via standard DMX-con</li> </ul>	troller				
<ul> <li>User-selectable Pan &amp; Tilt ranges, 54</li> </ul>	40° / 360° / 180° / 90°				
<ul> <li>Reverse Pan / Tilt movement</li> </ul>					
<ul> <li>Special: Pan / Tilt movement, Color,</li> </ul>	Gobo blackout				
• Pan 0° 540°, Tilt 0° 270°					
Pan/Tilt resolution: 16 bit					
Control: DMX-512, Built-in Programs					
10 Built in programs selectable by D					
	Colorwheel: 14 dichroic-filters and white				
Color functions: Split colors, Rainbox	N-HOW Effect				
Rotation: Bi-directional					
Prism: 8-facet prism					
Frost filter: Yes					
Color temp.: 8000K					
Light Source: Osram Sirius HRI 230W included; Lamp socket: E20.6					
Beam Angle: 1°-3,8° Electronic adjustment					
• Dimmer: 0-100%					
• Strobe: 0-20Hz					
<ul> <li>Focus: Motorized focus</li> </ul>					
Housing: Black Metal & Flame-retard					
Neutrik Powercon IN					
Gobos					
Colourwheel:	heat-resistant and intensify glass; dichroic glas coating				
Max. ambient temperature $t_a$ :	40°C; Max. housing temperature $t_{\rm B}$ : 80°C				
Motor:	high quality stepping-motor controlled by microprocessors				
Minimum distance:					
Minimum distance from flammable surfa					
Minimum distance to lighted object:	12m				

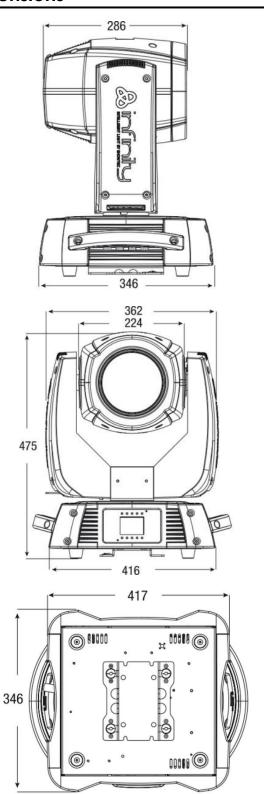
Design and product specifications are subject to change without prior notice.

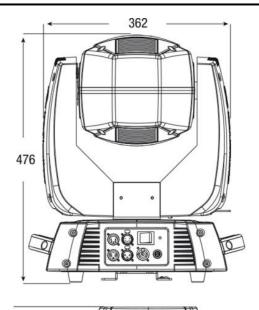


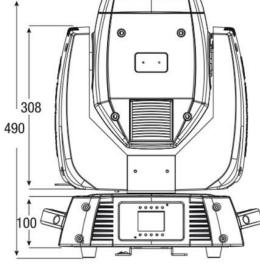


Website: <u>www.Showtec.info</u> Email: <u>service@highlite.nl</u>

# **Dimensions**









# Infinity iB-5R <u>Notes</u>



Ordercode: 41530



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