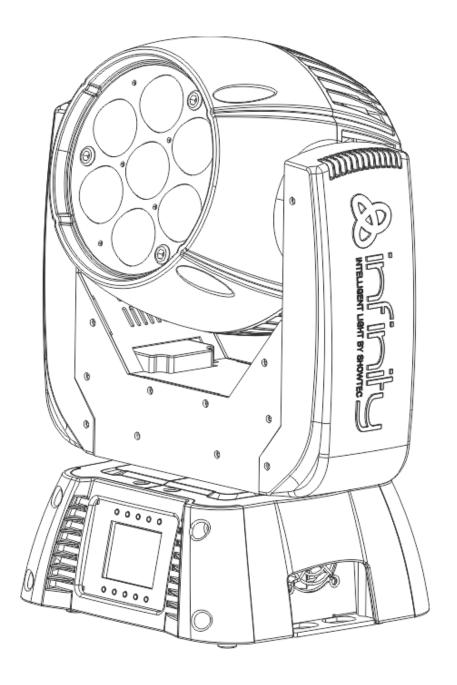


MANUAL



ENGLISH

Infinity iW-720

Ordercode: 41521

Table of contents

Warning	2
Safety Instructions	
Operating Determinations	4
Rigging	
Connection with the mains	
Return Procedure	
Claims	6
Description of the device	7
Overview	8
Backside	
Installation	9
Set Up and Operation	9
Control Modes	
One Infinity (Built-in Programs)	9
Multiple Infinity's (Master/Slave control)	9
Multiple Infinity's (DMX Control)	1C
Fixture Linking	11
Data Cabling	
Control Panel	
Control Mode	
DMX Addressing	
Menu Overview	
Main Menu Options	
1. DMX Addressing	
2. Edit Mode	
3. Settings Menu	
4. Built-in Programs	
5. Test Menu	
6. Information Menu	17
DMX Channels	
29 Channels (Advanced)	18
14 Channels (Basic)	23
Channel settings	25
Maintenance	26
Replacing a Fuse	26
Battery Replacement	
(must be carried out by a qualified technician!)	27
Troubleshooting	28
Product Specification	30



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 iW-720 LED Wash with Powercon powercable 0,9m
- 1 bracket for truss mounting (spare part number SPC1159)
- User manual







LED Expected Lifespan

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



CAUTION!

Keep this device away from rain and moisture! Unplug mains lead before opening the housing!



Safety Instructions

Every person involved with the installation, operation and maintenance of this device has to:

- be aualified
- 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

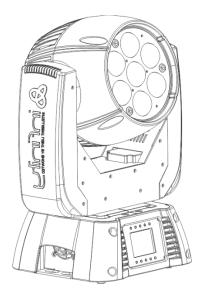
Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

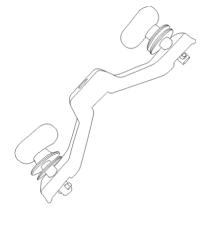
Do not attempt the installation yourself!

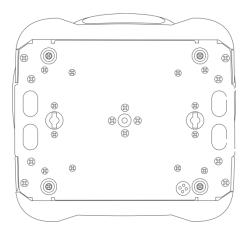
Always let the installation be carried out by an authorized dealer!

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.



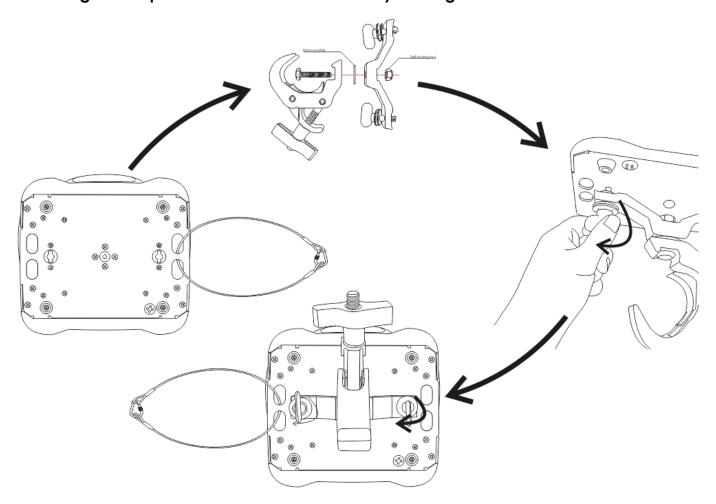




The Infinity can be placed on a flat stage floor or mounted to any kind of truss by a clamp.



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.

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

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





Return Procedure



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

Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:

- 01) Your name
- 02) Your address
- 03) Your phone number
- 04) A brief description of the symptoms

Claims

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

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

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

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

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



Description of the device

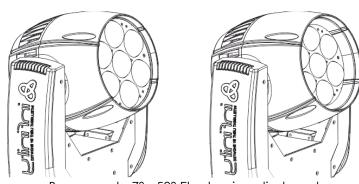
Features

The Showtec Infinity iW-720 LED Wash is a moving-head with high output and great effects.

- Beam & Wash effect
- High torque motors
- Ultra-fast movements
- 1 Clamp rigging
- Dimmer curves: Linear, Square, I-Square, S curve
- Color balance: Separate RGBW adjustment
- On-Board: Battery powered full color display including gravity sensor
- LED source the shutter is electronic not mechanical.
- On-Board: 16x2 Character display
- DMX-control via standard DMX-controller
- User-selectable Pan & Tilt ranges, 540° / 360° / 180°
- Reverse Pan / Tilt movement
- Special: Pan / Tilt movement, blackout
- Pan 0° -- 540°, Tilt 0° -- 270°
- Pan/Tilt resolution: 16 bit
- Control: DMX-512, Master/Slave, Built-in Programs
- 10 Built in programs selectable by DMX
- Light Source: 7x 20W RGBW 4-in-1 LED
- Output: 31.300 Lux @ 2m.
- Beam Angle: 7°-50° Electronic adjustment
- Input Voltage: 100-240 VAC
- Continuous Power 240W max. at full output
- Dimmer: 0-100%
- Strobe: 0-20Hz
- Housing: Black Metal & Flame-retardant plastic
- Fixture Connection: XLR Data in/out (XLR 3-pin)
- Neutrik Powercon IN / OUT
- Fuse F5AL / 250V
- Dimensions: 204 x 290 x 388 mm (LxWxH)
- Weight: 8 kg
- User selectable Basic (14CH) or Advanced (29CH) operating modes



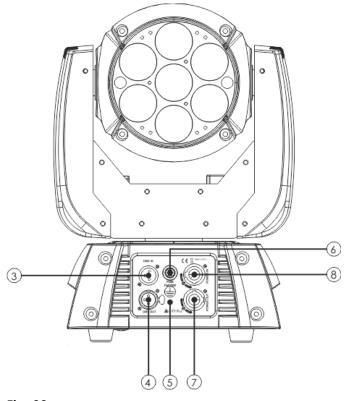
Overview 1 2 Fig. 01



Beam angle 7° - 50° Electronic adjustment

- •
- 01) Lens02) Menu Buttons + LCD Display

Backside



- 03) DMX signal connector (IN) 3-pin
- 04) DMX signal connector (OUT) 3-pin
- 05) Earth connection
- 06) Fuse F4AL 250V
- 07) Neutrik Powercon OUT
- 08) Neutrik Powercon IN

Fig. 02

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



Installation

Remove all packing materials from the Infinity iW-720 LED Wash. Check that all foam and plastic padding is removed. Connect all cables.

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

Set Up and Operation

Follow the directions below, as they pertain to your preferred operation mode.

Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

Control Modes

There are 3 modes:

- Stand-alone (built-in programs)
- Master/Slave
- DMX512 (29 Channels ADVANCED or 14 channel BASIC)

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. Please see page 16 for more information about the built-in programs.

Multiple Infinity's (Master/Slave control)

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

The pins:



- 1. Earth
- 2. Signal (-)
- 3. Signal (+)
- 05) Link the units as shown in (Fig. 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. You can use the same functions on the master device as described on page 15 (Built-in Programs or Music control)). This means on the master device you can set your desired operation Mode and all slave devices will react the same as the master device.

Multiple Infinity's (Master/Slave control)

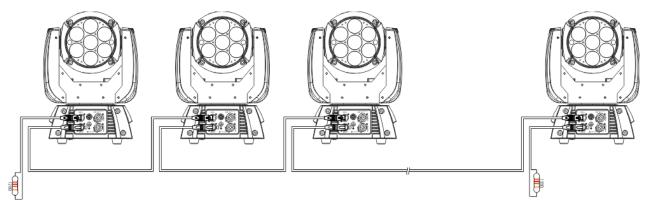
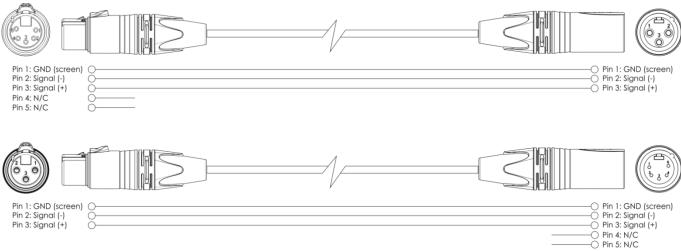


Fig. 03



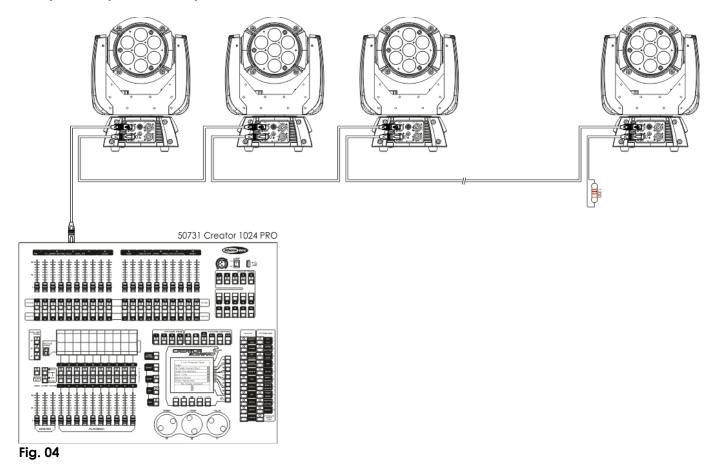
Multiple Infinity's (DMX Control)

- 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 4), 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



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 Infinity's on a DMX data link: 30 fixtures

Data Cabling

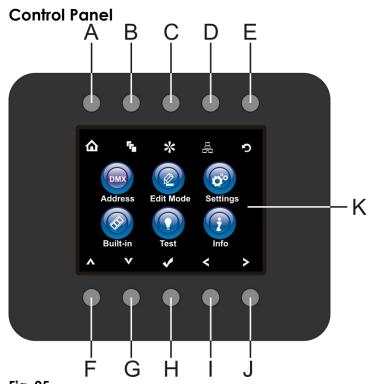
To link fixtures together you must obtain data cables. You can purchase DAP Audio certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic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

DAP Audio Certified DMX Data Cables

- DAP Audio cable for allround use. bal. XLR/M 3 p. > XLR/F 3 p.
 Ordercode FL01150 (1,5m.), FL013 (3m.), FL016 (6m.), FL0110 (10m.), FL0115 (15m.), FL0120 (20m.).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. Ordercode FL71150 (1,5m.), FL713 (3m.), FL716 (6m.), FL7110 (10m.).

The Infinity iW-720 LED Wash 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. 05

Control Mode

The fixtures are individually addressed on a data-link and connected to the controller.

The fixtures respond to the DMX signal from the controller. (When you select the DMX address and save it, the controller will display the saved DMX address the next time.)

DMX Addressing

The control panel on the front side of the base allows you to assign the DMX fixture address, which is the first channel from which the Infinity will respond to the controller.

Please note when you use the controller, the unit has 29 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+29=30 (030); the DMX address of the third Infinity should be 30+29=29 (059), 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.

For address settings, please refer to the instructions under "Addressing'.

Controlling:

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

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

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



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





 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:



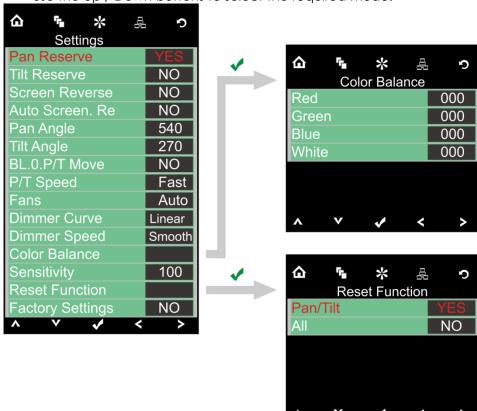
- 03) Once you have selected the desired mode, press the buttons to change the value from No to YES.
- 04) Once you have selected the desired setting, press the button to store your settings.
- 05) If the device has been set to master, all slave devices will follow the master movement.
- 06) If the device 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 15 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) A couple of menus have more options, then your regular, yes or no function:

Pan Angle: 540°, 360°, 180°
Tilt Angle: 270°, 180°, 90°
P/T Speed Fast, Slow
Fans Auto, Full

Dimmer Curve Linear, Square, I Squa, Scurve

Dimmer Speed Smooth, Fast Sensitivity 001-100

05) If you press the OK button at the Color Balance, a new Menu will open.

06) In the color Balance menu you can set 4 colors: Red (000-255)

Green (000-255) Blue (000-255) White (000-255)

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

08) You can set 2 different reset options: Pan/Tilt

Reset All

09) 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.

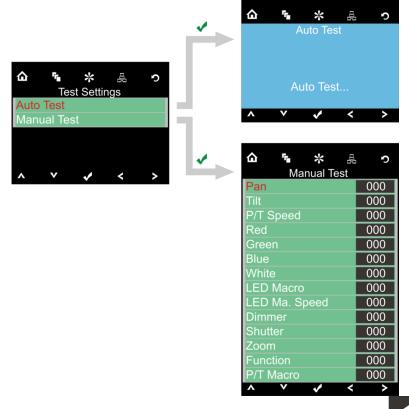


5. Test Menu

With this menu you can set your desired mode.



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 7 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 4 current settings, you cannot change anything





DMX Channels

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

Channel 6 – Red 1 Dimmer intensity (CH25 and CH26 must be open 🔼)

0-255 Red from 0 – 100%

Channel 7 – Green 1 Dimmer intensity (CH25 and CH26 must be open

0-255 Green from 0 – 100%

Channel 8 – Blue 1 Dimmer intensity (CH25 and CH26 must be open

0-255 Blue from 0 – 100%

Channel 9 – White 1 Dimmer intensity (CH25 and CH26 must be open

0-255 White from 0 – 100%

Channel 10 – Red 2 Dimmer intensity (CH25 and CH26 must be open

0-255 Red from 0 – 100%

Channel 11 – Green 2 Dimmer intensity (CH25 and CH26 must be open 🕰

0-255 Green from 0 – 100%

Channel 12 – Blue 2 Dimmer intensity (CH25 and CH26 must be open

0-255 Blue from 0 – 100%

Channel 13 – White 2 Dimmer intensity (CH25 and CH26 must be open

0-255 White from 0 – 100%

Ordercode: 41521

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Channel 14 – Red 3 Dimmer intensity (CH25 and CH26 must be open 🔼) Red from 0 - 100%





Channel 15 – Green 3 Dimmer intensity (CH25 and CH26 must be open 🔼) 0-255 Green from 0 - 100%

Channel 16 – Blue 3 Dimmer intensity (CH25 and CH26 must be open 🔼)

Blue from 0 - 100%



Channel 17 – White 3 Dimmer intensity (CH25 and CH26 must be open 🔼)

White from 0 – 100% 0-255



Channel 18 – Red 4 Dimmer intensity (CH25 and CH26 must be open A

Red from 0 - 100%0-255



Channel 19 – Green 4 Dimmer intensity (CH25 and CH26 must be open 🔼

0-255 Green from 0 - 100%



Channel 20 – Blue 4 Dimmer intensity (CH25 and CH26 must be open 4)

0-255 Blue from 0 - 100%



Channel 21 – White 4 Dimmer intensity (CH25 and CH26 must be open 🔼) White from 0 – 100% 0-255





0-4	No Function	
5-9	Color 1	
10-14	Color 2	
15-19	Color 3	
20-24	Color 4	
25-29	Color 5	
30-34	Color 6	
35-39	Color 7	
40-44	Color 8	
45-49	Color 9	
50-54	Color 10	
55-59	Color 11	
60-64	Color 12	
65-69	Color 13	
70-74	Color 14	
75-79	Color 15	
80-84	Color 16	
85-89	Color 17	
90-94	Color 18	
95-99	Color 19	
100-104	Color 20	
105-109	Color 21	
110-114	Color 22	
115-119	Color 23	
120-124	Color 24	
125-129	Color 25	
130-134	Color 26	
135-139	Color 27	
140-144	Color 28	
145-149	Color 29	
150-154	Color 30	
155-159	Color 31	
160-164	Color 32	
165-169	Color 33	
170-174	Color 34	
175-179	No Function	
180-201	CW Color-flow from fast to slow	
202-207	Stop color at this point	
208-229	CCW Color-flow from fast to slow	
230-234	No Function	
235-249	Color Jump from fast to slow	
250-255	Sound-controlled	



Channel 23 – Built-in LED (CH25 and CH26 must be open Use in combination with CH24

	٨	V	
L	8	1	

000 111 001118	manon will one-
0-15	No Function
16-31	Built-in 1
32-47	Built-in 2
48-63	Built-in 3
64-79	Built-in 4
80-95	Built-in 5
96-111	Built-in 6
112-127	Built-in 7
128-143	Built-in 8
144-159	Built-in 9
160-175	Built-in 10
176-191	Built-in 11
192-207	Built-in 12
208-223	Built-in 13
224-239	Built-in 14
240-255	Built-in 15

Channel 24 – Built-in Speed; Use in combination with CH23

0-255 From slow to fastest

Channel 25 – Dimmer (Shutter and Colors RGBW must be open 1)



From black to brightest

Channel 26 – Shutter / Strobe (Dimmer must be open 1)

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 27 – Zoom

0-255 From big to small

Channe	1 28 -	Channel	Functions

0-9	No Function
10-14	Blackout during Pan/Tilt movement
15-19	Reserved
20-24	Reserved
25-29	Reserved
30-34	Reserved
35-39	Reserved
40-44	Reserved
45-49	Reserved
50-54	Reset Pan after 3 seconds
55-59	Reset Tilt after 3 seconds
60-64	Reset Zoom after 3 seconds
65-69	Reserved
70-74	Reset all
75-79	Reserved
80-84	Reserved
85-89	Reserved
90-94	Reserved
95-99	Reserved
100-104	Reserved
105-109	Reserved
110-114	Reserved
115-119	Pan/Tilt Speed Fast
120-124	Pan/Tilt Speed Slow
125-129	Fan Full Speed
130-134	Fan Temperature controlled
135-139	Dimming Fast
140-144	Dimming Smooth
145-239	No Function
240-247	XY Smoothing model open
248-255	XY Smoothing model to shut down

Channel 29 – Built-in Programs; Use in combination with CH 6 - CH 21 📤

Channel 29 – B	Built-in Programs; Use in combination with CH 6 - CH 21 2-3)
0-7	No Function
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	Sound-controlled Program 1
152-167	Sound-controlled Program 2
168-183	Sound-controlled Program 3
184-199	Sound-controlled Program 4
200-215	Sound-controlled Program 5
216-231	Sound-controlled Program 6
232-249	Sound-controlled Program 7
247-255	Sound-controlled Program 8



14 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/TILT Speed

0 - 255

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

Channel 4 – Red Dimmer intensity (CH10 and CH11 must be open 🕰)

Red from 0 - 100%

Channel 5 – Green Dimmer intensity (CH10 and CH11 must be open 🔼)

0-255 Green from 0 - 100%

Channel 6 – Blue Dimmer intensity (CH10 and CH11 must be open

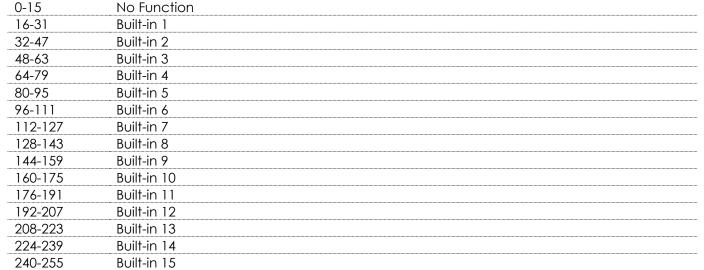
Blue from 0 - 100% 0-255

Channel 7 – White Dimmer intensity (CH10 and CH11 must be open 🔼)

0-255 White from 0 - 100%

Built-in LED (CH10 and CH11 must be open 🔼) Channel 8 –

Use in combination with CH9



Channel 9 - Built-in Speed

Ordercode: 41521

0-255 From slow to fastest



Channel 10 – Dimmer (Shutter and Colors RGBW must be open 10, 255



0-255 From black to brightest

Channel 11 –	- Shutter / Strobe (Dimmer 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 12 – Zoom

0-255 From big to small

Channel 13 – Channel Functions

Cildille 10	
0-9	No Function
10-14	Blackout during Pan/Tilt movement
15-19	Reserved
20-24	Reserved
25-29	Reserved
30-34	Reserved
35-39	Reserved
40-44	Reserved
45-49	Reserved
50-54	Reset Pan after 3 seconds
55-59	Reset Tilt after 3 seconds
60-64	Reset Zoom after 3 seconds
65-69	Reserved
70-74	Reset all
75-79	Reserved
80-84	Reserved
85-89	Reserved
90-94	Reserved
95-99	Reserved
100-104	Reserved
105-109	Reserved
110-114	Reserved
115-119	Pan/Tilt Speed Fast
120-124	Pan/Tilt Speed Slow
125-129	Fan Full Speed



130-134	Fan Temperature controlled
135-139	Dimming Fast
140-144	Dimming Smooth
145-239	No Function
240-247	XY Smoothing model open
248-255	XY Smoothing model to shut down

Channel 14 – Built-ir	Programs: Use	in combination	with CH 4 - CH 7
• · · • · · · · · · · · · · · · · · · ·		••	· · · · · · · · · · · · · · · · · · ·

0-7	No Function
8-23	Built-in Macro 1
24-39	Built-in Macro 2
40-55	Built-in Macro 3
56-71	Built-in Macro 4
72-87	Built-in Macro 5
88-103	Built-in Macro 6
104-119	Built-in Macro 7
120-135	Built-in Macro 8
136-151	Sound-controlled Macro 1
152-167	Sound-controlled Macro 2
168-183	Sound-controlled Macro 3
184-199	Sound-controlled Macro 4
200-215	Sound-controlled Macro 5
216-231	Sound-controlled Macro 6
232-249	Sound-controlled Macro 7
247-255	Sound-controlled Macro 8

Channel settings

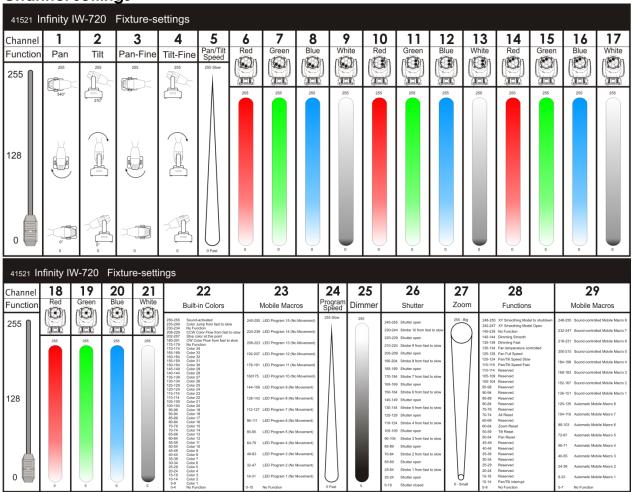


Fig. 06



Maintenance

The Showtec Infinity iW-720 LED Wash 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.

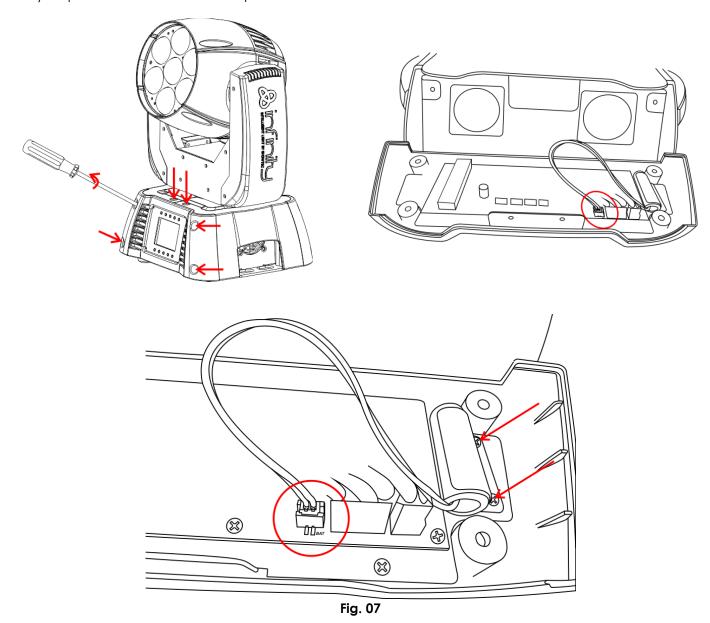
- 01) Unplug the unit from electric power source.
- 02) Insert a screwdriver into the slot in the fuse cover. Turn the screwdriver to the left, at the same time gently push a bit (Turn and Push). The fuse will come out.
- 03) Remove the used fuse. If brown or unclear, it is burned out.
- 04) Insert the 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.





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 15).
- 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: 41521

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).	 Connect controller. Install a phase reversing cable between the controller and the first fixture on the link. 		
	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	 Inspect connections and cables. Correct poor connections. Repair or replace damaged cables. 		
correctly, but some respond erratically	Data link not terminated with 120 Ohm termination plug.	 Insert termination plug in output jack of the last fixture on the link. 		
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.	 Check address setting. Bypass one fixture at a time until normal operation is regained: unplug both connectors and connect them directly together. Have the defective fixture serviced by a qualified technician. 		
	3-pin XLR Out on the fixtures does not match (pins 2 and 3 reversed).	 Install a phase-reversing cable between the fixtures or swap pin 2 and 3 in the fixture, that behaves erratically. 		
Shutter closes suddenly	The color wheel, 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.	 Allow fixture to cool. Clean fan. Make sure air vents at control panel and front lens are not blocked. Turn up the air conditioning . 		
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 iW-720 LED Wash

Input Voltage: 100-240 VAC

Continuous Power: 240W max. at full output

F5AL / 250V Fuse:

204 x 290 x 388 mm (LxWxH) Dimensions:

Weight:

Operation and Programming

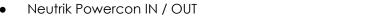
Signal pin OUT: pin 1 earth, pin 2 (-), pin 3 (+)

Set Up and Addressing: LED control panel

Pan/Tilt resolution: 8-16 bit DMX Channels: 29 or 14 XLR Data in/out: XLR 3-pin

Electro-mechanical effects

- On-Board: Battery powered full color display including gravity sensor
- LED source the shutter is electronic not mechanical.
- Beam & Wash effect
- High torque motors
- Ultra-fast movements
- 1 Clamp rigging •
- Dimmer curves: Linear, Square, I-Square, S curve
- Color balance: Separate RGBW adjustment
- On-Board: 16x2 Character display
- DMX-control via standard DMX-controller
- User-selectable Pan & Tilt ranges, 540° / 360° / 180°
- Reverse Pan / Tilt movement •
- Special: Pan / Tilt movement
- Pan 0° -- 540°, Tilt 0° -- 270°
- Pan/Tilt resolution: 16 bit •
- Control: DMX-512, Master/Slave, Built-in Programs
- 10 Built in programs selectable by DMX
- 7x 20W RGBW 4-in-1 LED
- Output: 31.300 Lux @ 2m.
- Beam Angle: 7°/25°/50° Manual adjustment •
- Dimmer: 0-100% Strobe: 0-20Hz
- Housing: Black Metal & Flame-retardant plastic



Max. ambient temperature ta: 40°C; Max. housing temperature tB: 80°C Motor: high quality stepping-motor controlled by microprocessors

Minimum distance:

Minimum distance from flammable surfaces: 0.5m

Minimum distance to lighted object: 1.3m

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



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

