

# **XB-Wave DMX**

**ORDERCODE 43071** 



SHOWELECTRONICS FOR PROFESSIONALS

### Congratulations!

You have bought a great, innovative product from Showtec.

The Showtec XB-Wave brings excitement to any venue. Whether you want simple plug-&-play action or a sophisticated DMX show, this product provides the effect you need.

You can rely on Showtec, for more excellent lighting products.

We design and manufacture professional light equipment for the entertainment industry.

New products are being launched regularly. We work hard to keep you, our customer, satisfied.

For more information: iwant@showtec.info

You can get some of the best quality, best priced products on the market from Showtec. So next time, turn to Showtec for more great lighting equipment.

Always get the best -- with Showtec!

Thank you!



### Showtec

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# 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 XB-Wave DMX with IEC powercable 0,9m
- 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. It is estimated that a viable lifespan of 40,000 to 50,000 hours will be achieved under normal operational conditions. If improving on this lifespan expectancy is of a higher priority, place care in providing for lower operational temperatures. This may include climatic-environmental and the reduction of overall projection intensity.



### **CAUTION!**

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



### SAFETY INSTRUCTIONS

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

- be qualified
- follow the instructions of this manual



CAUTION! Be careful with your operations.

With a dangerous voltage you can suffer a dangerous electric shock when touching the wires!



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

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

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

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

#### **IMPORTANT:**

The manufacturer will not accept liability for any resulting damages caused by the nonobservance 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.
- 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 LED's life.
- Do not touch the device's housing bare-handed during its operation (housing becomes hot). Allow the fixture to cool for at least 5 minutes before handling.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use 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 powercord 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. Lighteffect 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.
- 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 light source.

(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  $t_a$  = 45°C must never be exceeded.
- 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, lamp explosion, 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 XB-Wave can be placed on a flat stage floor or mounted to any kind of truss by a clamp.

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	NUL
	YELLOW/GREEN	GREEN	GREEN	EARTH

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





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:

- 1) Your name
- 2) Your address
- 3) Your phone number
- 4) 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 XB-Wave is a LED centerpiece with high output and great effects.

- XB-Wave is linkable to other XB series fixtures that share the XB Bracket
- Small compact LED scanner
- Blackout/static/strobe
- Individual control of red, green and blue LEDs
- Built-in automated programs via master/slave or DMX
- Built-in sound activated programs via master/slave or DMX
- Power Consumption: 30W
- Coverage angle: 135°
- Powerful patterns
- Sharp beams
- Vivid colours.
- Great effect for mobile DJ's and small or medium sized clubs
- LEDs: 2x 9W RGB LED
- High-power, 3W (730mA) LEDs
- DMX-control via standard DMX-controller
- Music Control
- Bracket included
- Control: DMX-512, Master/Slave, Sound
- 3 pin XLR Male and Female connectors
- 4 DMX Channels
- Fuse F1A / 250V

### Overview



- 1) Hanging Bracket
- 2) Lenses

# Backside



- 3) DMX signal connector (OUT) 3-pin4) DMX signal connector (IN) 3-pin

- 5) Microphone6) Audio Sensitivity7) IEC In + Fuse 1 A 250V

- 8) Earth9) Safety eye10) DMX Dipswitches



Fig.3

### Installation

Remove all packing materials from the XB-Wave. 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.

Connect the device to the main power supply. The device can be music-controlled by its built-in microphone.

### **Control Modes**

There are 5 Modes: 1) Automatic

2) Custom

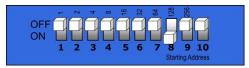
3) Sound-controlled

4) Master/Slave

**5)** DMX512 (4 Channels)

### One XB-Wave (Automatic)

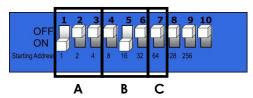
- 1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- **2.** When the XB-Wave is not connected by a DMX-cable, it functions as a stand-alone device. Dipswitch #8 must always be set to ON for Automatic control.



Program 1: Dipswitch #8 to ON

### One XB-Wave (Custom)

- 1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- 2. When the XB-Wave is not connected by a DMX-cable, it functions as a stand-alone device. Dipswitch #8, #9 and #10 must always be set to OFF for custom control.



- A. You can use Dipswitch #1 (R), #2 (G) and #3 (B) to combine your custom colors.
- **B.** You can use Dipswitch #4, #5 or #6 to control the strobe speed. You can only select one dipswitch at a time. When #4, #5 and #6 are turned OFF, there is no strobe and the LEDs are on constantly.

#4 = Strobe Slow

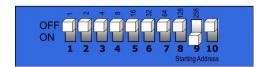
#5 = Strobe Medium

#6 = Strobe Fast

C. You can use Dipswitch #7 to control the auto color chase.

### One XB-Wave (Sound-control)

- 1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation. Plug the end of the electric mains power cord into a proper electric power supply socket.
- 2. The dipswitces have no influence during the Sound controlled modus.
- 3. When the device is not connected by a DMX-cable, it functions as a stand-alone device. For sound control dipswitch #9 must be set to ON. The other dipswitches must be OFF. Turn on the music, then the XB-Wave will react to the beat of the music. You can also adjust the Sensitivity, by using the sensitivity control.



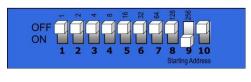


### Multiple XB-Waves (Master/Slave control)

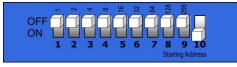
- 1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- 2. Use a 3-p XLR cable to connect the XB-Wave. The pins:



- 1. Earth
- 2. Signal -
- 3. Signal +
- **3.** Link the units as shown in (Fig. 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.
- 4. Set DMX dip switches as follows



Master Control: Use dipswitch #1-#9 to play your the desired mode.



Slave Control: Dipswitch #10 should be ON



You can use the same functions on the master device as described on page 8+9 (Automatic, Custom and Music control)

This means on the master device you can use Dipswitch #1-#9 depending on your desired operation Mode and all slave devices will react the same as the master device.

### Multiple XB-Waves (Master/Slave control)



### Multiple XB-Waves (DMX Control)

- 1. Fasten the effect light onto firm trussing Leave at least 1 meter on all sides for air circulation.
- 2. Always use a safety cable (ordercode 70140 / 70141).
- 3. Use a 3-p XLR cable to connect the XB-Waves and other devices.

### Occupation of the XLR-connection:

# DMX-OUTPUT XLR mounting-socket:

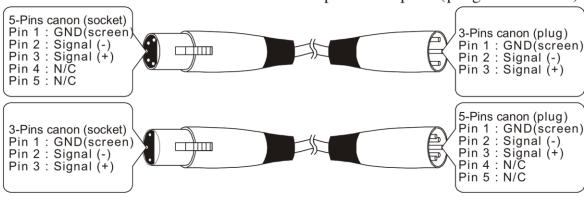
# DMX-input XLR mounting-plug



- 1 Ground 2 - Signal (-)
- 3 Signal (+)

- 3 1 2
- 1 Ground
- 2 Signal (-) 3 - Signal (+)

The transformation of the controller line of 3 pins and 5 pins (plug and socket)



- **4.** Link the units as shown in (figure 5), 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.
- **5.** 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.



### Note: Link all cables and set dip switches before connecting electric power

After switching on, the XB-Wave will automatically detect whether DMX 512 data is received or not. If there is no data received, the problem may be:

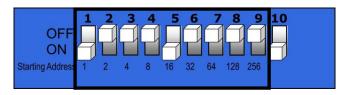
- The XLR cable from the controller is not connected with the input of the XB-Wave.
- The controller is switched off or defective, the cable or connector is detective, or the signal wires are swapped in the input connector.

**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.

### Dipswitch setting for DMX Mode

DMX products must have their own "address" to receive DMX signals.

Addresses on the controller are set by flipping the appropriate DMX dip switches #1 - #9.



You need to know that DMX address settings are the sum of the dip switch values. A standard DMX address for a Showtec XB-Wave, which has 4 channels is as follow:

### Example

<b>XB-Wave</b> Unit 5	Address Value	DMX Dip Switches "ON" #1, #5
Switch #1 #5 Total sum	Value 1 <u>16 +</u> 17	OFF ON Starting Address 1 2 4 8 16 32 64 128 256

Explanation: Since each unit has 4 channels, each address advances 4 values (See Address Value above).

Once address values are determined, add DMX dip switch values to obtain the appropriate address (DMX Dip Switches "ON") for each unit. Flip appropriate DMX dip switches on each unit.

### Example:

- 1. If you want to give a XB-Wave DMX address 133, you first have to find the number 133 in the DMX Chart. (See page 11)
- 2. Then look at the left side (Dip Switches #1-#5) horizontally from 133. In the Table you'll see #1=ON, #2=OFF, #3=ON, #4=OFF, #5=OFF.
- **3.** Finally look at the upper side of the table (Dip Switches #6-#9) vertically from 133. In the Table you'll see #6=OFF, #7=OFF, #8=ON, #9=OFF.

### **DMX Address Quick Reference Cl**

DN	DMX DIP SWITCH SET			#9	0	0	0	0	0	0	
	0=OFF			#8	0	0	0	0	1	1	
	1=ON			#7	0	0	1	1	0	0	
				#6	0	1	0	1	0	1	
#1	#2	#3	#4	#5							
0	0	0	0	0			32	64	96	128	160
1	0	0	0	0		1	33	65	97	129	161
0	1	0	0	0		2	34	66	98	130	162
1	1	0	0	0		3	35	67	99	131	163
0	0	1	0	0		4	36	68	100	132	164
1	0	1	0	0		5	37	69	101	133	165
0	1	1	0	0		6	38	70	102	134	166

#### **DMX Address Quick Reference Chart** Dip Switch Position DMX DIP SWITCH SET #9 0=OFF #8 1=ON #7 #6 #1 #2 #3 #4 #5

**Dip Switch Position** 

**DMX Address** 

### **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 XB-Waves 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.).

### **DMX Channels**

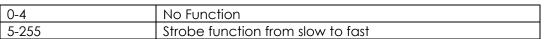
### Channel 1 - Colors

0-19	Blackout	
20-39	Red	
40-59	Green	
60-79	Blue	
80-99	Green+Blue	
100-119	Red+Blue	
120-139	Red+Green	
140-159	Red+Green+Blue	
160-179	3 color chase + rotation	
180-255	7 color chase + rotation	

### Channel 2 - Colors

0-4	Blackout	
5-28	Red	
29-56	Green	
57-84	Blue	
85-112	Green+Blue	
113-140	Red+Blue	
141-168	Red+Green	
169-197	Red+Green+Blue	
198-224	3 color chase + rotation	
225-255	7 color chase + rotation	

# Channel 3 – Strobe (Only works when CH2 is set between 5-197 🛕 )



# Channel 4 – Rotation (Only works when CH2 is set between 5-197 🛕 )

0-127	Indexing
128-255	Rotation from slow to fast

### Maintenance

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:

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

The Showtec XB-Wave requires almost no maintenance. However, you should keep the unit clean. Otherwise, the fixture's light-output will be significantly reduced. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Wipe lens clean with glass cleaner and a soft cloth. Do not use alcohol or solvents.

The front lens will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light-output very quickly. The cooling-fans should be cleaned monthly with a soft brush.

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

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

### 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.

- 1. Unplug the unit from electric power source.
- 2. Insert a flat-head screwdriver into a slot in the fuse cover. Gently pry up the fuse cover. The fuse will come out.
- 3. Remove the used fuse. If brown or unclear, it is burned out.
- **4.** Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

### **Troubleshooting**

### No Light, No Movement - All Products

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 three potential problem areas: the power supply, the lamp, the fuse.

- 1. Power supply. Check that the unit is plugged into an appropriate power supply.
- 2. The LEDs. Return the XB-Wave to your Showtec dealer.
- 3. The fuse. Replace the fuse. See page 15 for replacing the fuse.

### No Response to DMX

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

- 1. Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
- 2. 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		
	No power to the fixture	·Check that power is switched on		
One or more		and cables are plugged in.		
fixtures are completely dead.	Primary fuse blown.	·Replace fuse.		
Fixtures reset	The controller is not connected.	· Connect controller.		
correctly, but all	3-pin XLR Out of the controller	· Install a phase reversing cable		
respond	does not match XLR Out of the first	between the controller and the first		
erratically or not at all to the	fixture on the link (i.e. signal is	fixture on the link.		
controller.	reversed).			
COTTITION OF	Poor data quality	· Check data quality. If much lower than 100 percent, the problem may be a bad data link connection, poor quality or broken cables, missing termination plug, or a defective fixture disturbing the link.		
	Bad data link connection	<ul> <li>Inspect connections and cables.</li> <li>Correct poor connections. Repair or replace damaged cables.</li> </ul>		
Fixtures reset	Data link not terminated with 120 Ohm termination plug.	· Insert termination plug in output jack of the last fixture on the link.		
correctly, but	Incorrect addressing of the fixtures.	· Check address setting.		
some respond erratically or not at all to the controller.	One of the fixtures is defective and disturbs data transmission on the link.	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).	<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, gobo wheel, or a gobo has lost its index position and the fixture is resetting the effect.	· Contact a technician for servicing if the problem persists.		
No light	The power supply settings do not match local AC voltage and frequency.	· Disconnect fixture. Check settings and correct if necessary.		
	LEDs damaged	· Disconnect fixture and return to your dealer.		
LED Lamp cuts out intermittently.	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>		
	The power supply settings do not	· Disconnect fixture. Check settings		
	match local AC voltage and frequency.	and correct if necessary.		

### **Product Specification**

Model: Showtec XB-Wave Voltage: 240V-50Hz (CE) Power Consumption: 30W LEDs: 2x 9W RGB LED

Fuse: 1A / 250V Weight: 2,4 kg

### **Operation and Programming**

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

Set Up and Addressing: Dipswitches

DMX Channels: 4

Signal input 3-pin XLR male Signal output 3-pin XLR female

#### **Electro-mechanical effects**

Music Control

Control: DMX-512, Master/Slave, Sound

#### Gobos

Colourwheel: heat-resistant and intensify glass; dichroic glas coating Max. ambient temperature  $t_a$ : 40°C; Max. housing temperature  $t_B$ : 80°C Cooling: 1 fan in the projector

Motor: high quality stepping-motor controlled by microprocessors

### Minimum distance:

Minimum distance from flammable surfaces: 0.5m

Minimum distance to lighted object: 1.3m

325 mm — 325

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



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