



Jumbo Strobe MKIII DMX

ORDERCODE 40218



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Congratulations!

You have bought a great, innovative product from Showtec.

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

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

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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 Jumbo Strobe MKII™ Product Guide

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WARNING

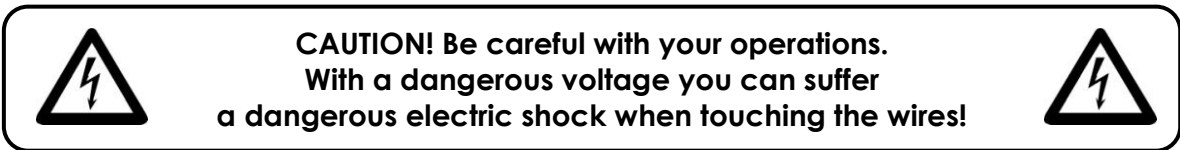


**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY
BEFORE YOUR INITIAL START-UP!**

SAFETY INSTRUCTIONS

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

- be qualified
- follow the instructions of this manual



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 run the device without lamp!
- Never ignite the lamp if the objective-lens or any housing-cover is open, as discharge lamps may expose and emit a high ultraviolet radiation, which may cause burns.
- Never look directly into the light source.
- Never leave any cables lying around.
- Never modify, bend, mechanically strain, put pressure on, pull or heat up the power cord.
- Never strain the cable insert or the female part in the device. There must always be sufficient cable going to the device. Otherwise, the cable will be damaged, which can cause serious damage.
- Never operate the stroboscope without protective shield! When the shield is cracked, replace it before using the device again.
- 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 lamp's life.
- Do not touch the device's housing bare-handed during its operation (housing becomes very hot).
- 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 replace the lamp, when it is damaged or deformed due to the heat.
- 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, before cleaning or when replacing lamp! 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.
- Make sure that the core diameter of extension cords and power cords is sufficient for the required power consumption of the device.
- If device is dropped or struck, disconnect main 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.
- For replacement use lamps of same type and rating only.
- Allow time to cool down, before replacing lamp.
- Keep away from direct insulation.
- This device is only allowed for an installation via the mounting bracket.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- The relative humidity must not exceed 50 % with an ambient temperature of 45° C.
- 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.



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 0.8 meter.

The maximum ambient temperature t_a 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 strobe is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the strobe, with the mounting-bracket, to the trussing system.
- The strobe 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 strobe, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.

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!

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:

- 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 shortcomings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

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

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

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

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

Description of the device

Features

The Showtec Jumbo Strobe MKII is a dimmable, DMX-controlled strobe light with a high output.

- 1500W flash
- DMX-control via standard DMX-controller
- 2 DMX-control channels required
- Strobe-effect with adjustable speed (1 - 12 flashes/sec.)
- Lamp: Strobe Bulb GE XOP-1500W (80603)
- Fuse 15A / 250V

Overview



Fig. 1

Backside

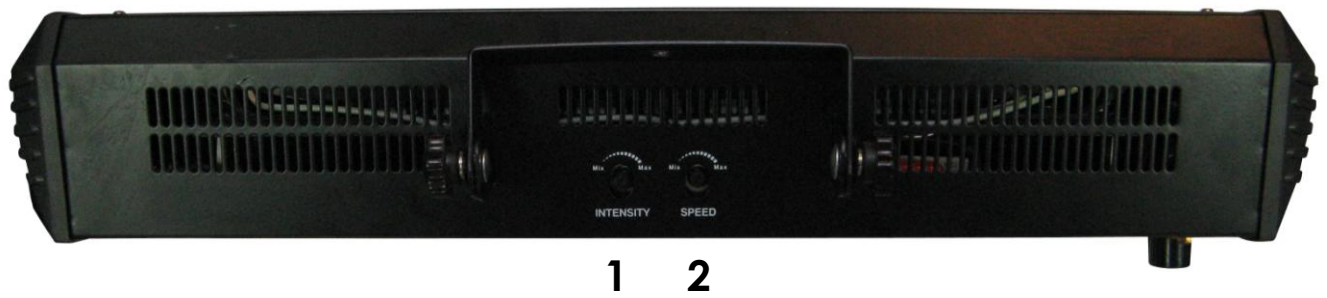


Fig. 2



Fig. 3

- 1) Manual Control Intensity
- 2) Manual Control Flash rate speed
- 3) DMX signal connector (OUT)
- 4) DMX signal connector (IN)
- 5) Dip Switches
- 6) Fuse 15A / 250V
- 7) Power cable

Installation

Installing the Lamp

The Showtec Jumbo Strobe MKII uses the GE XOP-1500W (ordercode 80603) strobe bulb as manufactured by all popular manufacturers. Use only the appropriate lamp for your unit.

Note that, product versions that use other lamps, may be offered in the future. Check your product specification label for information.

Always disconnect from electric mains power supply before changing lamps.

The lamp has to be replaced when it is damaged or deformed due to the heat.

Do not install lamps with a higher wattage! Lamps with a higher wattage generate temperatures the device was not designed for.

Damages caused by non-observance are not subject to warranty.

DANGEROUS: Leave the device disconnected for 15 min before opening. Otherwise you could be seriously injured due to a power shock !!!

Procedure :

1. Disconnect from main power supply, and leave for 15 minutes. Loosen the 4 screws of the glass cover.
2. Remove the glass cover. With the left hand gently pull the lamp out the spring, while pushing the spring back with the right hand.
3. Leave the lamp laying in the mirror. Then put the glass cover back and fasten the 4 screws again.
4. Turn the strobe over and loosen the 6 screws (4) on the back. Remove the back cover.
5. Carefully loosen the 3 screws (5) Turn the strobe over again and remove the glass cover, then remove the lamp. Read lamp instructions. Do not touch the lamp bulb glass. Oil on hands shortens the lamp life. (If you touch the bulb glass, wipe off the glass with a clean, lint-free towel and rubbing alcohol.) Hold the lamp with one hand and Insert the lamp into the spring. Put the glass cover back and fasten the 4 screws.
6. Turn the strobe over and insert the 3 cables, then fasten the 3 screws. Put the cover back and fasten the remaining 6 the screws snugly.

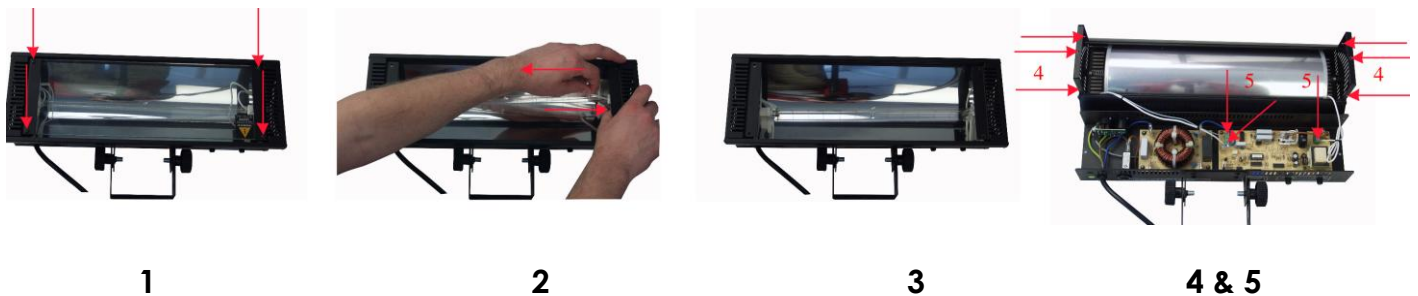


Fig. 4

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.

One Jumbo Strobe MKII Stand-alone

1. Fasten the Jumbo Strobe MKII onto firm trussing. Leave at least 1 meter on all sides for air circulation.
2. Before connecting the strobe with the mains, the Intensity-control and the Flash Rate-control have to be set to a minimum position . For manual control, all DIP-switches have to be set to OFF. Plug the cord into a proper electric power supply socket. The strobe will now start.

DMX Control

1. Fasten the effect light onto firm trussing (Use a 30-kg rated or stronger C-clamp bolted onto the Showtec Jumbo Strobe bracket). Leave at least 0,5 meter on all sides for air circulation.
2. Link the units as shown in Figure 5. Plug a DMX signal cable from the controller to the first unit's DMX "in" socket. Then plug a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link following units.
3. Set DMX dip switches for DMX Mode as follows.

Units	Dip Switch ON
Unit 1	#1, #12
Unit 2	#1, #2, #12
Unit 3	#1, #3, #12
Unit 4	#1, #2, #3, #12

For more units, continue to use standard DMX dip switch settings. See page 10 for DIP Switch setting.

4. 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. Do so for all units and the controller.

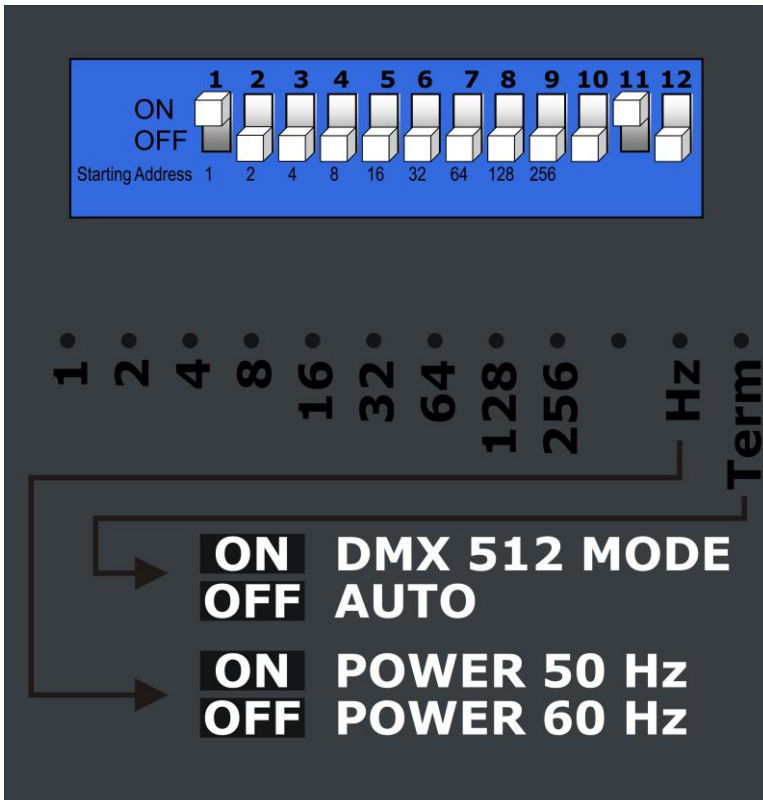


Fig. 5

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

5. Do not supply power before the whole system is set up and connected properly. Design your show according to your DMX controller functions.

DMX Dip Switches Setting

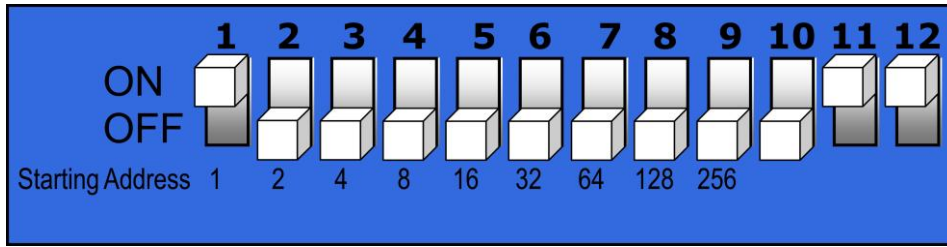


DMX Dipswitch #1 - #9 control DMX Address
 DMX Dipswitch #10 has no function
 DMX Dipswitch #11 ON=50Hz, OFF=60Hz
 DMX Dipswitch #12 ON=DMX Mode, OFF=Auto

DMX Dip Switch Value Guide

DMX products must have their own "address" to receive DMX signals. Addresses on the Showtec Jumbo Strobe are set by flipping the appropriate DMX dip switches.

Note: You only have to use Dipswitch #1 - #9 to set the DMX Address.
Dipswitch #12 must be set to ON when working in DMX Mode.



You need to know that DMX address settings are the sum of the dip switch values. A standard DMX address for a Showtec Jumbo Strobe, which has 2 channels (Flash rate CH1 and intensity CH2) is as follow:

Example

Jumbo Strobe **Address Value** **DMX Dip Switches "ON"**
Unit 5 9 #1 , #4, #12

Switch	Value
#1	1
#4	8
Total sum	9

DMX Mode: Dipswitch #12 must be set to ON.

Explanation: Since each unit has 2 channels, each address advances 2 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. All strobes with the same starting address work synchronically.

Example:

1. If you want to give a Jumbo Strobe DMX address 133, you first have to find the number 133 in the DMX Chart.
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 Chart

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

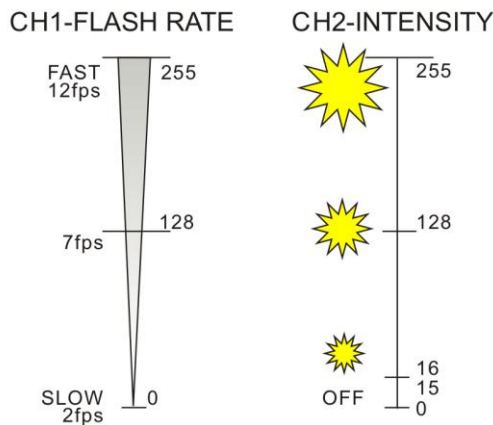
Dip Switch Positior

DMX DIP SWITCH SET 0=OFF 1=ON					#9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1			
#1	#2	#3	#4	#5	#8	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1		
					#7	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1		
					#6	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
0	0	0	0	0		32	64	96	128	160	192	224	256	288	320	352	384	416	448	480			
1	0	0	0	0	1	33	65	97	129	161	193	225	257	289	321	353	385	417	449	481			
0	1	0	0	0	2	34	66	98	130	162	194	226	258	290	322	354	386	418	450	482			
1	1	0	0	0	3	35	67	99	131	163	195	227	259	291	323	355	387	419	451	483			
0	0	1	0	0	4	36	68	100	132	164	196	228	260	292	324	356	388	420	452	484			
1	0	1	0	0	5	37	69	101	133	165	197	229	261	293	325	357	389	421	453	485			
0	1	1	0	0	6	38	70	102	134	166	198	230	262	294	326	358	390	422	454	486			
1	1	1	0	0	7	39	71	103	135	167	199	231	263	295	327	359	391	423	455	487			
0	0	0	1	0	8	40	72	104	136	168	200	232	264	296	328	360	392	424	456	488			
1	0	0	1	0	9	41	73	105	137	169	201	233	265	297	329	361	393	425	457	489			
0	1	0	1	0	10	42	74	106	138	170	202	234	266	298	330	362	394	426	458	490			
1	1	0	1	0	11	43	75	107	139	171	203	235	267	299	331	363	395	427	459	491			
0	0	1	1	0	12	44	76	108	140	172	204	236	268	300	332	364	396	428	460	492			
1	0	1	1	0	13	45	77	109	141	173	205	237	269	301	333	365	397	429	461	493			
0	1	1	1	0	14	46	78	110	142	174	206	238	270	302	334	366	398	430	462	494			
1	1	1	1	0	15	47	79	111	143	175	207	239	271	303	335	367	399	431	463	495			
0	0	0	0	1	16	48	80	112	144	176	208	240	272	304	336	368	400	432	464	496			
1	0	0	0	1	17	49	81	113	145	177	209	241	273	305	337	369	401	433	465	497			
0	1	0	0	1	18	50	82	114	146	178	210	242	274	306	338	370	402	434	466	498			
1	1	0	0	1	19	51	83	115	147	179	211	243	275	307	339	371	403	435	467	499			
0	0	1	0	1	20	52	84	116	148	180	212	244	276	308	340	372	404	436	468	500			
1	0	1	0	1	21	53	85	117	149	181	213	245	277	309	341	373	405	437	469	501			
0	1	1	0	1	22	54	86	118	150	182	214	246	278	310	342	374	406	438	470	502			
1	1	1	0	1	23	55	87	119	151	183	215	247	279	311	343	375	407	439	471	503			
0	0	0	1	1	24	56	88	120	152	184	216	248	280	312	344	376	408	440	472	504			
1	0	0	1	1	25	57	89	121	153	185	217	249	281	313	345	377	409	441	473	505			
0	1	0	1	1	26	58	90	122	154	186	218	250	282	314	346	378	410	442	474	506			
1	1	0	1	1	27	59	91	123	155	187	219	251	283	315	347	379	411	443	475	507			
0	0	1	1	1	28	60	92	124	156	188	220	252	284	316	348	380	412	444	476	508			
1	0	1	1	1	29	61	93	125	157	189	221	253	285	317	349	381	413	445	477	509			
0	1	1	1	1	30	62	94	126	158	190	222	254	286	318	350	382	414	446	478	510			
1	1	1	1	1	31	63	95	127	159	191	223	255	287	319	351	383	415	447	479	511			

Dip Switch Position

DMX Address

DMX CHANNEL CHART



Maintenance

The Showtec Jumbo Strobe MKII 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 glass clean with glass cleaner and a soft cloth. Do not use alcohol or solvents.

The glass will require regular cleaning, as smoke-fluid tends to build up residues, reducing the light-output quickly.

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 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. The electric power supply cables must not show any damages or material fatigue.

Changing the Lamp

1. Disconnect mains power supply. Loosen the 4 screws on of the glass cover.
2. Follow directions for installing a new lamp, page 8.

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 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.
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

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 lamp. Replace the old lamp with a new one with the same specifications. See page 8 for replacing lamps.
3. The fuse. See page 12 for replacing the fuse.

No Response to DMX

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

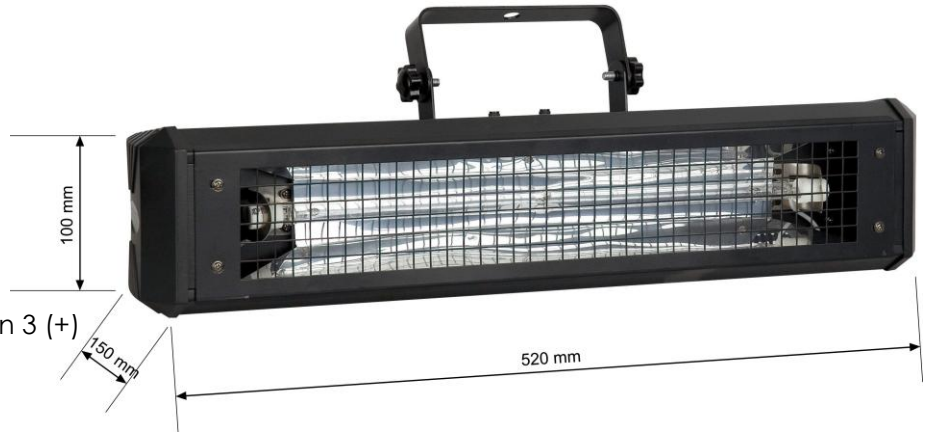
1. Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
2. Determine whether the controller or light effect is at fault. Does the controller operate properly with other DMX products ? If not, take the controller in for repair. If so, take the DMX cable and the light effect to a qualified technician.

Product Specification

Model: Showtec Jumbo Strobe MKII
Voltage: 240V-50Hz (CE)
Power: 1500W
Fuse: 15A / 250V
Dimensions: 520x150x100mm (LxWxH)
Weight: 2,2 kg

Operation and Programming

Signal pin OUT: pin 1 earth, pin 2 (-), pin 3 (+)
DMX Channels 2
Signal input 3-pin XLR male
Signal output 3-pin XLR female
Manual controllable intensity
Manual controllable flash rate
Strobe-effect with variable speed (1 flash -- 12 flashes/sec.)
DMX-control via standard DMX-controller



Lamp

Strobe Bulb GE XOP-1500W (100 hr; 37500 Lumen) ordercode 80603

Minimum distance:

Minimum distance from flammable surfaces: 0.5m
Minimum distance to lighted object: 0.8m

*: Versions for other lamps may be produced. Please check the specification label on your product.

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



Website: www.Showtec.info

Email: service@highlite.nl



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