

VARYTEC

Manual



Strobe Xenon 3000DMX

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1. Safety instructions



- This Device is suitable for indoor use only.
- All modifications will void the warranty.
- Repairs have to be carried out by skilled personnel only.
- Only use fuses of the same type and original parts as spare parts.
- Protect the Unit from rain and humidity to avoid fire and electric shocks.
- Make sure to unplug the power supply before opening the housing.

1.1. Instructions for a safe and efficient operation

Be careful with heat and extreme temperature

Only use the device in a place where no extreme temperatures will occur.
Do not keep it in a temperature below 32°F /0°C, or exceeding 104°F /40°C.
Avoid exposing it to direct rays of the sun or near a heating appliance.

Keep away from humidity, water and dust

Do not place the set in a location with high humidity or lots of dust.
Containers with liquid should not be placed on the set.

Avoid placing it on un-stable location

Select a level and stable location to avoid vibration.

Do not use chemicals or volatile liquids for cleaning

Use a clean dry cloth to wipe off the dust. Metall Parts can be cleaned with a wet soft cloth for stubborn dirt.

If out of work, contact sales agency soon

If any troubles occurs, remove the power plug immediately, and contact with an engineer for repairing, do not open the cabinet by yourself, it might result a danger of electric shock.

Take care with the power cable

Never pull the power cable to remove the plug from the receptacle, be sure to hold the plug. When not using the device for an extended period of time, be sure to disconnect the plug from the receptacle.

IMPORTANT:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems. Make sure the electrical connection is carried out by qualified personnel. All electrical and mechanical connections have to be carried out according to the European safety standards.

1.2. Further safety instructions

**IMPORTANT****Keep away from water and humidity!****Make sure to unplug the power supply before opening the housing!**

Please read careful through this manual before the first start-up.

All persons which are entrusted with installation, start-up, operation, maintenance and repair of this device have to:

- Show a corresponding competence.
- Follow the lines of this manual.
- Face this manual as part of the product.
- Keep this manual over the lifetime of the product.
- Pass this manual to new owners of the device.
- Download the latest version of the manual.

Safety-related red flags

**IMPORTANT!****Handle carefully with dangerous electric voltages.****With this voltage there is the danger to get a life-threatening electric shock.**

Always observe

After taken the device from a cold room to a warm room, it is not allowed to activate the device. It is possible that thereby emerged condensed water damages the device. Do not Activate the device until it reached ambient temperature.

Prevent that the power cable has contact with other cables. Handle carefully with power cables and power connections. Don't touch them with clammy hands.

Make sure that the connected voltage does not exceed the specified values.

Make sure that it isn't possible to squeeze or damage the power cable with sharp edges. Assure yourself with regular checks that there are no damages to the power cable or the device.

Don't switch the device in short time intervals (e.g. in second cycle) on and off.

Keep away children and laymen off the device.

**Health risk!**

Don't look directly into the light source. At certain circumstances it is possible that some people get epileptic seizures. This is especially true for individuals whose epilepsy was determined by a doctor. The device causes (UV) radiation. Therefore, keep a safe distance (at least 1.5m) to people and objects and operate it never without the protective glass on the front page! By fast flashing, the risk of an epileptic seizure increases. Therefore do not install it in danger zones (such as stairs, exit routes ...). Inform the visitors before operating about the use of a strobe. Avoid longer flash sequences.

Designated use

This device was developed for professional use on stages, in discos, theatres etc. The device is only approved for a connection up to 230V 50/60 Hz AC voltage and only for indoor use.

Regular breaks during operation increase the lifetime of your device.

Avoid convulsions or any form of forceful impact during the installation or the start-up of the device.

Make sure that the device is not exposed excessive heat, humidity or dust at the place of installation. Take care that no cables are lying around. You would endanger your own safety and also the safety of a third party.

It is not allowed to operate or store the device in an environment in which spray water, rain, humidity or fog is expected. Moisture or humidity could reduce the isolation of the device and could cause deathly electric shocks. If you use fog devices the device has not be exposed to a direct smoke jet. There has to be a safety distance of at least 0.5m between this device and the fog machine. Make sure that the saturation of the fog has to enable a visibility of at least 10m.

The ambient temperature has to be between 0°C and +40°C. Avoid direct sunlight and close proximity to heaters. You have also to attend it during the transport in closed motor vehicles.

You have to attend that with an ambient temperature von 40°C it is not allowed that the relative humidity exceeds 50%.

Do not operate the device during thunderstorms. Surge voltages could destroy the device. Unplug the power supply during thunderstorms.

During the installation the use of the mounting bracket is obligatory.

Surrounding objects or surfaces should not be in contact with the device.

Make sure that during the installation and removal of the device the area below the place of installation is basically cordoned off. This also applies to implementation of service.

The device has to be protected by a suitable safety-cord.

Get yourself familiar with the functions of the device before start-up. People without the experience should not handle the device. The most cause of functional disorder is inappropriate handling.

Do not use chemicals or volatile liquids for cleaning. Use a clean dry cloth to wipe off the dust, or a wet soft cloth for stubborn dirt.

For transport use the original packing or designated accessory to avoid damages during the transport.

For reasons of safety unauthorized changes are forbidden.

A usage of the device which differs from usages which are described in this manual can cause damages of the device. In that case the warranty expires. Additionally you should notice that every differed usage is related with dangers and can cause e.g. an electrical short, fire, electric shock or crash.

Overhead installation**Danger of life!**

You have to observe the regulations of BGV C1 (formerly VBG 70) and EN60598-2-17 Installations are to carry out by skilled personnel only.

The suspension devices have to be build and measured so they can withstand for an hour the tenfold of the payload without suffering a permanent detrimental deformation.

Basically installation has to be made by using a second separate suspension. This can be e.g. a suitable net. The second suspension has to be designed and attached so no part of the installation can fall down in case of failure.

During construction, reconstruction and deconstruction unnecessary stay in the range of moving areas, on lightning bridges, under elevated work stations or any other danger zones is forbidden.

The operator is obliged to following safety-related and mechanical facilities:

- Before the first start-up or after critical changes before restarting it has to be checked by an expert.
- Review in the frame of the inspection test at least all four years by an expert. .
- Review by a qualified person at least once a year.

How to carry out the overhead installation:

If possible you should install the device out of the areas where people could stay.

IMPORTANT! Overhead installation requires a high level of experience. This includes knowledge of calculating the payload, used installation material and safety inspections of the used material and the projector whereas the required experience is not limited to this. Do not try to carry out installation yourself under any circumstances if you are not qualified. Contact a professional installer. An inappropriate installation can lead to injuries and/or damaged properties.

It is not allowed to install the device in the grip area of people.

If the device may hang from the ceiling or from high beams, the use of truss systems is mandatory. The device may not be installed so it can swing freely in the room.

Please note: Crashing down items can cause serious injuries! Do not install the projector, if you doubt the safety of a possible installation form!

Before installation make sure that the mounting surface has the ability to carry the tenfold point load of the own weight of the device.

Mount the device with the mounting-bracket to your trussing system using an appropriate clamp.

During overhead installation the device always must be secured by a safety rope which is designed to hold the twelvefold weight of the device. Only safety ropes with quick-release safety fastener elements may be used. Hang up the safety rope in the hole of the mounting bracket. Direct the rope over the truss or an appropriate fastening point. Hang up the end in the fastening element and tie up the locking nut. A safety rope once exposed to failing load or damaged may not be used furthermore.

The maximum drop distance must not exceed 20cm.

A safety rope once exposed to failing load or damaged may not be used furthermore. Adjust the desired inclination angle via the mounting bracket and tighten the screw.

2. Introduction

Thank you for buying the **Strobe Xenon 3000DMX**. It is a powerful device. For a successful installation and operation, please read this manual carefully.

3. Connections

3.1. Electrical connections

If you wish to change the power supply settings, see the chapter Appendix. Connect the fixture to the mains with the enclosed power cable and plug. The earth has to be connected.

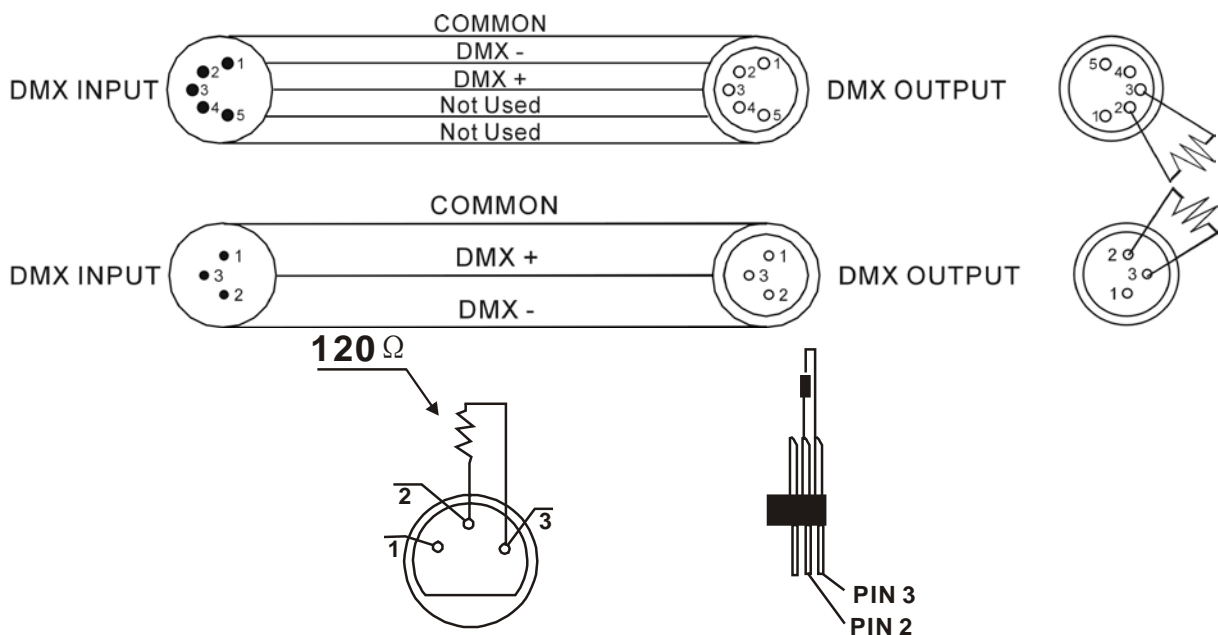
Cable (EU)	Cable (US)	Pin	International
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	⊕

3.2. DMX connections

To make a DMX512 connection go ahead like it is described in the picture. Make sure that you use shielded cable. 3pole or 5pole XLR cables are suitable.

3.3. DMX connection with terminator

Where the DMX cable has to run a long distance or the equipment is operated in an electrically noisy environment like a disco for installations, we recommend using a DMX terminator. This prevents corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR connector with a 120 Ω resistor between pins 2 and 3, which is then plugged into the XLR output socket of the last device in the series. Please look to the bottom drawings.



If you are using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.

4. Bedienung

4.1. Lamp power setting

The **Strobe Xenon 3000DMX** has two operation modes:

High power: maximum intensity

Low power: reduces output and extends lamp life

The mode is set with Pin 6 at the Mode Dip-Switch.



High power

Low power

4.2. Compatible lamps

For the **Strobe Xenon 3000DMX** are two different lamp available: the XOP 7-OF and the XOP 15-OF. The XOP 7 operates on voltages from 90V to 260V and is recommended for use with the main suppliers under 200V. The XOP 15 operates on voltages from 125V to 260V and is recommended for use with mains suppliers over 200V.

Installing any other lamp may create a safety hazard or damage the fixture!

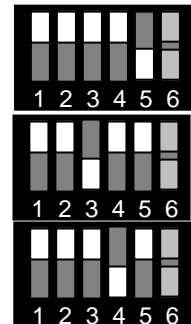
4.3. DMX modes

The DMX modes are selected with the Mode Dip-Switch. .

With mode 1 (1 channel) you can control the **Strobe Xenon 3000DMX** with one channel. You can control the flash rate.

With mode 2 (3 channels) you can control intensity, flash duration and flash rate.

With mode 3 (4 channels) you can control intensity, flash duration, flash rate and six special effects.



4.4. Setting the DMX address

The start address is the first channel, which gets the control signals from a controller. It can be set from 1-511. To control every device on ist own, every device needs ist own address. It is not allowed that an address overlaps another.

Set the DMX address as shown in the chart below. 0 means the pin is set to OFF, 1 means the pin is set to ON. Pin 10 has to be set OFF for DMX operating.

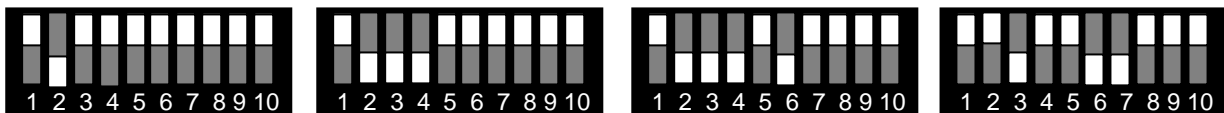
DIP Switch 0=OFF, 1=ON	#	DMX Address Bits															
		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
		9	8	7	6	5	4	3	2	1	0	0	1	1	0	0	1
	#	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
	#	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
	#	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



					#	0	1	0	1	0	1	0	1	0	1	0	1	0	1			
#	#	#	#	#	#																	
1	2	3	4	5	6																	
0	0	0	0	0				3	6	96	12	16	19	22	25	28	32	35	38	41	44	48
								2	4		8	0	2	4	6	8	0	2	4	6	8	0
1	0	0	0	0		1	3	6	97	12	16	19	22	25	28	32	35	38	41	44	48	
							3	5		9	1	3	5	7	9	1	3	5	7	9	1	
0	1	0	0	0		2	3	6	98	13	16	19	22	25	29	32	35	38	41	45	48	
							4	6		0	2	4	6	8	0	2	4	6	8	0	2	
1	1	0	0	0		3	3	6	99	13	16	19	22	25	29	32	35	38	41	45	48	
							5	7		1	3	5	7	9	1	3	5	7	9	1	3	
0	0	1	0	0		4	3	6	10	13	16	19	22	26	29	32	35	38	42	45	48	
							6	8	0	2	4	6	8	0	2	4	6	8	0	2	4	
1	0	1	0	0		5	3	6	10	13	16	19	22	26	29	32	35	38	42	45	48	
							7	9	1	3	5	7	9	1	3	5	7	9	1	3	5	
0	1	1	0	0		6	3	7	10	13	16	19	23	26	29	32	35	39	42	45	48	
							8	0	2	4	6	8	0	2	4	6	8	0	2	4	6	
1	1	1	0	0		7	3	7	10	13	16	19	23	26	29	32	35	39	42	45	48	
							9	1	3	5	7	9	1	3	5	7	9	1	3	5	7	
0	0	0	1	0		8	4	7	10	13	16	20	23	26	29	32	36	39	42	45	48	
							0	2	4	6	8	0	2	4	6	8	0	2	4	6	8	
1	0	0	1	0		9	4	7	10	13	16	20	23	26	29	32	36	39	42	45	48	
							1	3	5	7	9	1	3	5	7	9	1	3	5	7	9	
0	1	0	1	0		1	4	7	10	13	17	20	23	26	29	33	36	39	42	45	49	
							0	2	4	6	8	0	2	4	6	8	0	2	4	6	8	0
1	1	0	1	0		1	4	7	10	13	17	20	23	26	29	33	36	39	42	45	49	
							1	3	5	7	9	1	3	5	7	9	1	3	5	7	9	1
0	0	1	1	0		1	4	7	10	14	17	20	23	26	30	33	36	39	42	46	49	
							2	4	6	8	0	2	4	6	8	0	2	4	6	8	0	2
1	0	1	1	0		1	4	7	10	14	17	20	23	26	30	33	36	39	42	46	49	
							3	5	7	9	1	3	5	7	9	1	3	5	7	9	1	3
0	1	1	1	0		1	4	7	11	14	17	20	23	27	30	33	36	39	43	46	49	
							4	6	8	0	2	4	6	8	0	2	4	6	8	0	2	4
1	1	1	1	0		1	4	7	11	14	17	20	23	27	30	33	36	39	43	46	49	
							5	7	9	1	3	5	7	9	1	3	5	7	9	1	3	5
0	0	0	0	1		1	4	8	11	14	17	20	24	27	30	33	36	40	43	46	49	
							6	8	0	2	4	6	8	0	2	4	6	8	0	2	4	6
1	0	0	0	1		1	4	8	11	14	17	20	24	27	30	33	36	40	43	46	49	
							7	9	1	3	5	7	9	1	3	5	7	9	1	3	5	7
0	1	0	0	1		1	5	8	11	14	17	21	24	27	30	33	37	40	43	46	49	
							8	0	2	4	6	8	0	2	4	6	8	0	2	4	6	8
1	1	0	0	1		1	5	8	11	14	17	21	24	27	30	33	37	40	43	46	49	
							9	1	3	5	7	9	1	3	5	7	9	1	3	5	7	9
0	0	1	0	1		2	5	8	11	14	18	21	24	27	30	34	37	40	43	46	50	
							0	2	4	6	8	0	2	4	6	8	0	2	4	6	8	0
1	0	1	0	1		2	5	8	11	14	18	21	24	27	30	34	37	40	43	46	50	
							1	3	5	7	9	1	3	5	7	9	1	3	5	7	9	1
0	1	1	0	1		2	5	8	11	15	18	21	24	27	31	34	37	40	43	47	50	
							2	4	6	8	0	2	4	6	8	0	2	4	6	8	0	2
1	1	1	0	1		2	5	8	11	15	18	21	24	27	31	34	37	40	43	47	50	

						3	5	7	9	1	3	5	7	9	1	3	5	7	9	1	3
0	0	0	1	1		2	5	8	12	15	18	21	24	28	31	34	37	40	44	47	50
						4	6	8	0	2	4	6	8	0	2	4	6	8	0	2	4
1	0	0	1	1		2	5	8	12	15	18	21	24	28	31	34	37	40	44	47	50
						5	7	9	1	3	5	7	9	1	3	5	7	9	1	3	5
0	1	0	1	1		2	5	9	12	15	18	21	25	28	31	34	37	41	44	47	50
						6	8	0	2	4	6	8	0	2	4	6	8	0	2	4	6
1	1	0	1	1		2	5	9	12	15	18	21	25	28	31	34	37	41	44	47	50
						7	9	1	3	5	7	9	1	3	5	7	9	1	3	5	7
0	0	1	1	1		2	6	9	12	15	18	22	25	28	31	34	38	41	44	47	50
						8	0	2	4	6	8	0	2	4	6	8	0	2	4	6	8
1	0	1	1	1		2	6	9	12	15	18	22	25	28	31	34	38	41	44	47	50
						9	1	3	5	7	9	1	3	5	7	9	1	3	5	7	9
0	1	1	1	1		3	6	9	12	15	19	22	25	28	31	35	38	41	44	47	51
						0	2	4	6	8	0	2	4	6	8	0	2	4	6	8	0
1	1	1	1	1		3	6	9	12	15	19	22	25	28	31	35	38	41	44	47	51
						1	3	5	7	9	1	3	5	7	9	1	3	5	7	9	1

Example:



Channel 2

Channel 14

Channel 46

Channel 100

4.5. Standalone mode

This chapter describes how you can control the **Strobe Xenon 3000DMX** without a controller.

- Set pin 1 of the Mode-DIPs on.
- Set the pins 2-5 off.
- Pin 6 using normal.

Use the Address-Dip-Pins for setting the flash rate (255 steps). Pin 9 allows a blinder function. The value required to achieve a desired flash rate can be calculated as follows:

$$DIP - Switch - Value = 261 - 2 * \frac{Netfrequencie}{Flash - Rate}$$

To achieve a flash rate of 10 flashes per second on a 50Hz power supply, for example, the Dip value is 251. To select the blinder effect instead, set pin 9 to ON.

5. DMX chart

5.1. Mode 1 (1 channel)

Channel	Value from	Value to	Function
1	0	5	No function
	6	249	Strobe slow-fast
	250	255	Full on

5.2. Mode 2 (3 channels)

Channel	Value from	Value to	Function
1	0	255	Dimmer 0-100%
2	0	255	Flash duration short-long
3	0	255	Flash rate slow-fast

5.3. Mode 3 (4 channels)

Channel	Value from	Value to	Function
1	0	255	Dimmer 0-100%
2	0	255	Flash duration short-long
3	0	255	Flash rate slow-fast
4	0	5	Off
	6	42	Dimming upwards
	43	85	Dimming downwards
	86	128	Dimming upwards/downwards
	129	171	Random
	172	214	Strobe
	215	255	Spikes

Note: Enable channel 4 with Mode-Dip-Switch 4.

6. Replace the lamp

1. Disconnect the fixture from the power supply system and allow the capacitor to discharge for 1 min and cool down the fixture.
2. Remove the screw on the sides and open the front glass cover.
3. Disconnect the lamp wires at the screw terminal.
4. Lift the old lamp out of the holder.
5. Lay the new lamp on the front glass above the lamp clips, with the end with two wires on the side close to the main cable.
6. Connect the two wires with the white isolation to the outside terminal on each end. Connect the wire with clear insulation to the inside terminal on the closest to the main cables. Push the isolation for each wire as far as will go into the block.
7. Press the lamp into the clips.

7. Technical data

Power supply	
Voltage	AC90-240V, 50/60Hz
Power consumption max.	3500 W
Battery	No
Light source	
LM type	XOP1500 Xenon Flashtube
Power	3000 W
Number/Power	1/3000 W
Optics	
Flash rate	0-25 Flashes/s
Connections	
Current in	Open cable and
Current out	No
XLR in/out	3Pin, 5Pin
Controlling	
Sound-to-light	No
Automatic	Yes
Master-Slave	Yes
DMX512	1/3/4 Channels
Hardware	
Protection class	IP20
Dimensions (L/B/H)	486x258x320mm
Weight	7 kg

Importeur:

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