

VARYTEC

User manual



LED Nuclear

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1. Safety instructions



- This device is suitable for indoor use only.
- All modifications to the device will void the warranty.
- Repairs are to carry out by skilled personnel only.
- Use only 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. FOR SAFE AND EFFICIENT OPERATION

Be careful with heat and extreme temperature

Avoid exposing it to direct rays of the sun or near a heating appliance.

Not put it in a temperature bellow 32°F /0°C, or ex ceeding 104°F /40°C.

Keep away from humidity, water and dust

Do not place the set in a location with high humidity or lots of dust.

Containers with water should not be placed on the set.

Keep away from sources of hum and noise

Such as transformer motor, tuner, TV set and amplifier.

To avoid placing 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, or a wet soft cloth for stubborn dirt.

If out of work, contact sales agency immediately

Any troubles arose, remove the power plug soon, 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.

2. Technical Information

- 6 x 3W 3in1 LEDs from Edison
- DMX Mode (4,8 or 22 Ch)
- Sound to light mode with internal microphone
- Digital display for setup and addressing
- Power and DMX can be daisy chained
- Stand alone Mode

3. DMX Mode

To use the DMX mode, please adjust the address as explained down below at Menu Structure. The item needs 4, 18 or 22 Channels, these you can work with by using an dmx controller as follows:

4 Channel Mode

Kanal	Wert	Funktion
1	0 – 9	No movement
	10 – 29	Movement 1
	30 – 49	Movement 2
	50 – 69	Movement 3
	70 – 89	Movement 4
	90 – 109	Movement 5
	110 – 129	Movement 6
	130 – 149	Movement 7
	150 – 169	Movement 8
	170 – 189	Movement 9
	190 – 209	Movement 10
	210 – 229	Movement 11
	230 – 249	Movement 12
250 – 255	Sound active	
2	0 – 255	Motorgeschwindigkeit schnell bis langsam
3	0 – 9	BLACKOUT
	10 – 29	Farbmakro 1
	30 – 50	Farbmakro 2
	51 – 70	Farbmakro 3
	71 – 91	Farbmakro 4
	92 – 111	Farbmakro 5

	112 – 132	Farbmakro 6
	133 – 153	Farbmakro 7
	154 – 173	Farbmakro 8
	174 – 194	Farbmakro 9
	195 – 214	Farbmakro 10
	215 – 235	Farbmakro 11
	236 – 255	Farbmakro 12
4	0 – 255	Farbmakro Geschwindigkeit von schnell bis langsam

18 Channel Mode

Kanal	Wert	Funktion
1	0 – 255	Spiegel 1 Pan
2	0 – 255	Spiegel 1 Tilt
3	Farbmakros	LED 1
	0-7	Blackout
	8-15	BASTARD AMBER
	16-23	MEDIUM AMBER
	24-31	PALE AMBER GOLD
	32-38	GALLO GOLD
	39-46	GOLDEN AMBER
	47-54	ROT HELL
	55-62	ROT MITTEL
	63-69	PINK MITTEL
	70-77	BROADWAY PINK
	78-85	FOLLIES PINK
	86-92	LAVENDELBLAU HELL
	93-100	SPEZIELLES LAVENDELBLAU
	101-108	LAVENDELBLAU
	109-116	INDIGOBLAU
	117-123	HEMSLEYBLAU
	124-131	TIPTONBLAU
	132-139	STAHLBLAUBLAU HELL
	140-147	HIMMELBLAU HELL
	148-154	HIMMELBLAU
155-162	BRILLIANT BLAU	
163-170	GRÜNBLAU HELL	
171-177	BLAU STRAHLEND	
178-185	URSPRÜNGLICHES BLAU	
186-193	CONGOBLAU	
194-201	PASTELLGELBGRÜN	
202-208	MOSSGRÜN	

	209-216	URSPRÜNGLICHES GRÜN
	217-224	DOUBLE CTB
	225-231	FULL CTB
	232-239	HALF CTB
	240-247	BLAU DUNKEL
	248-255	WEIß
4	0 – 255	Spiegel 2 Pan
5	0 – 255	Spiegel 2 Tilt
6	Farbmakros 0 - 255	LED 2 Siehe Kanal 3
7	0 – 255	Spiegel3 Pan
8	0 – 255	Spiegel 3 Tilt
9	Farbmakros 0 - 255	LED 3 Siehe Kanal 3
10	0 – 255	Spiegel 4 Pan
11	0 – 255	Spiegel 4 Tilt
12	Farbmakros 0 - 255	LED 4 Siehe Kanal 3
13	0 – 255	Spiegel 5 Pan
14	0 – 255	Spiegel 5 Tilt
15	Farbmakros 0 - 255	LED 5 Siehe Kanal 3
16	0 – 255	Spiegel 6 Pan
17	0 – 255	Spiegel 6 Tilt
18	Farbmakros 0 - 255	LED 6 Siehe Kanal 3

22 Channel Mode

Kanal	Wert	Funktion
1	0 – 255	Spiegel 1 Pan
2	0 – 255	Spiegel 1 Tilt
3	Farbmakros 0-7 8-15 16-23 24-31 32-38 39-46 47-54	LED 1 Blackout BASTARD AMBER MEDIUM AMBER PALE AMBER GOLD GALLO GOLD GOLDEN AMBER ROT HELL

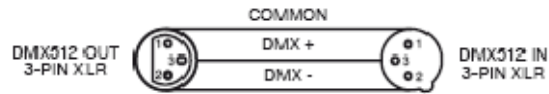
	55-62	ROT MITTEL
	63-69	PINK MITTEL
	70-77	BROADWAY PINK
	78-85	FOLLIES PINK
	86-92	LAVENDELBLAU HELL
	93-100	SPEZIELLES LAVENDELBLAU
	101-108	LAVENDELBLAU
	109-116	INDIGOBLAU
	117-123	HEMSLEYBLAU
	124-131	TIPTONBLAU
	132-139	STAHLBLAUBLAU HELL
	140-147	HIMMELBLAU HELL
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	171-177	BLAU STRAHLEND
	178-185	URSPRÜNGLICHES BLAU
	186-193	CONGOBLAU
	194-201	PASTELLGELBGRÜN
	202-208	MOSSGRÜN
	209-216	URSPRÜNGLICHES GRÜN
	217-224	DOUBLE CTB
	225-231	FULL CTB
	232-239	HALF CTB
	240-247	BLAU DUNKEL
	248-255	WEIß
4	0 – 255	Spiegel 2 Pan
5	0 – 255	Spiegel 2 Tilt
6	Farbmakros 0 - 255	LED 2 Siehe Kanal 3
7	0 – 255	Spiegel3 Pan
8	0 – 255	Spiegel 3 Tilt
9	Farbmakros 0 - 255	LED 3 Siehe Kanal 3
10	0 – 255	Spiegel 4 Pan
11	0 – 255	Spiegel 4 Tilt
12	Farbmakros 0 - 255	LED 4 Siehe Kanal 3
13	0 – 255	Spiegel 5 Pan
14	0 – 255	Spiegel 5 Tilt

15	Farbmakros 0 - 255	LED 5 Siehe Kanal 3
16	0 – 255	Spiegel 6 Pan
17	0 – 255	Spiegel 6 Tilt
18	Farbmakros 0 - 255	LED 6 Siehe Kanal 3
19	0 – 9	No movement
	10 – 29	Movement 1
	30 – 49	Movement 2
	50 – 69	Movement 3
	70 – 89	Movement 4
	90 – 109	Movement 5
	110 – 129	Movement 6
	130 – 149	Movement 7
	150 – 169	Movement 8
	170 – 189	Movement 9
	190 – 209	Movement 10
	210 – 229	Movement 11
	230 – 249	Movement 12
250 – 255	Sound active	
20	0 – 255	Motorgeschwindigkeit schnell bis langsam
21	0 – 9	BLACKOUT
	10 – 29	Farbmakro 1
	30 – 50	Farbmakro 2
	51 – 70	Farbmakro 3
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	92 – 111	Farbmakro 5
	112 – 132	Farbmakro 6
	133 – 153	Farbmakro 7
	154 – 173	Farbmakro 8
	174 – 194	Farbmakro 9
	195 – 214	Farbmakro 10
	215 – 235	Farbmakro 11
236 – 255	Farbmakro 12	
22	0 – 255	Farbmakro Geschwindigkeit von schnell bis langsam

If you use cables longer than 100m you should put in a terminator at the last item in your daisy chain!

Use DMX cables with a 120Ohms shield only! All Plugs should use XLR connectors!

The connectors configuration is as follows:



XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Data Compliment (negative)
Pin 3 = Data True (positive)

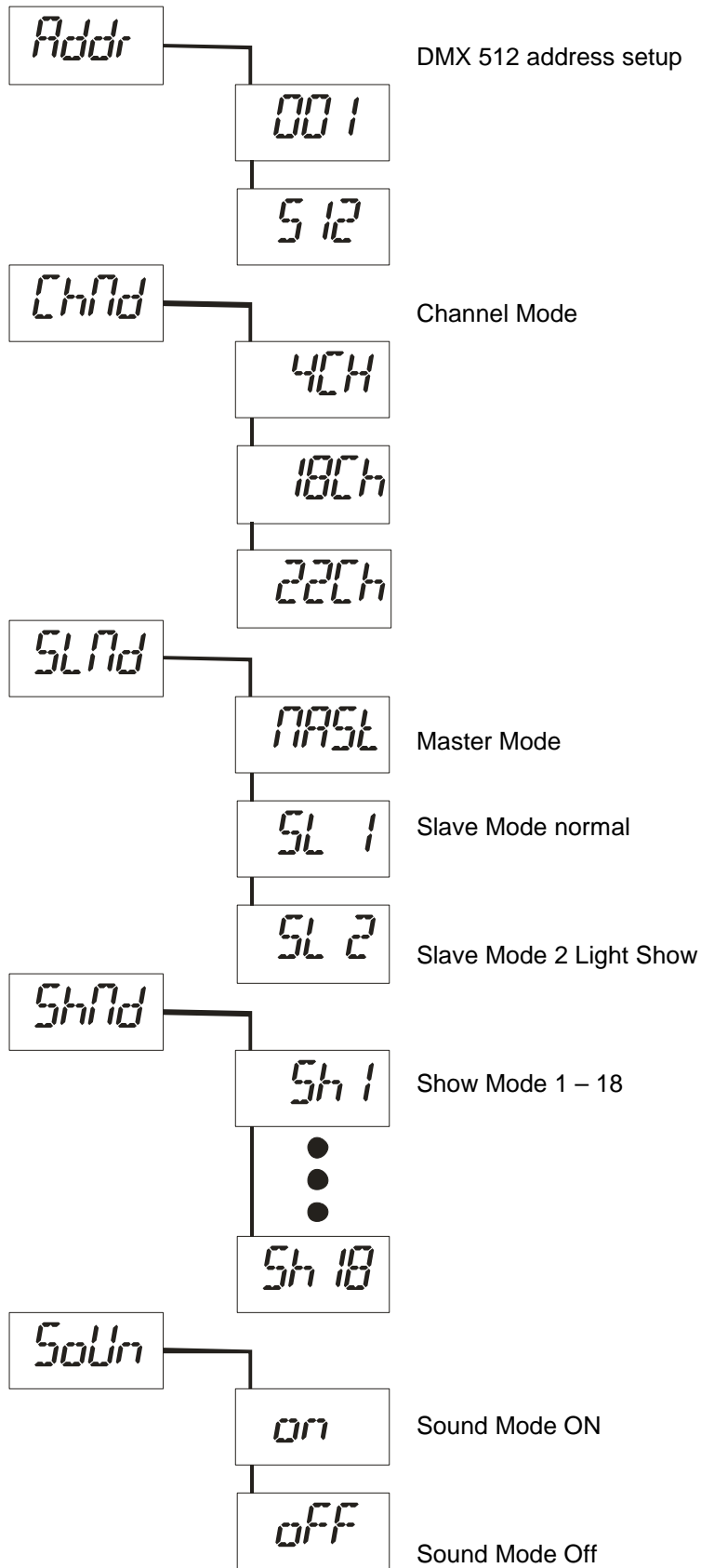
If you want to produce a DMX terminator on your own, you have to insert a Terminator at the plug.

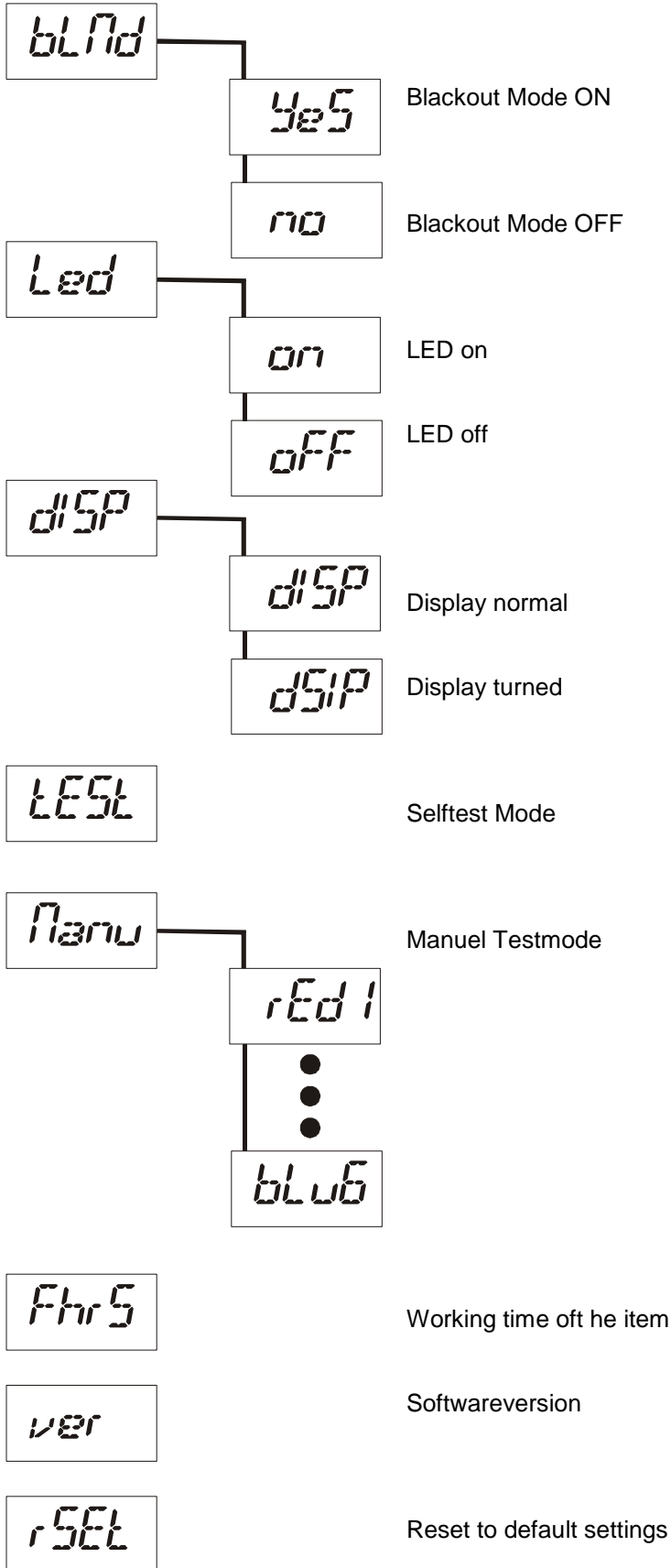
This should have a size of 120Ohms and 1/4W. It has to be inserted between Pin 2 (Data -) and Pin 3 (Data +).



4. Work with the menu

4.1. Menu structure





4.2. Description of the Menu

System Menu: When confirming your setting press ENTER and then hold MENU for at least 2-3 seconds, or you can wait 1 minute for automatic setup. To exit without making any adjustments press the MENU button.

Addr DMX address setting

1. Push the UP/DOWN buttons until the display shows Addr.
2. Push ENTER
3. 1 appears in the display blinking. With the UP/DOWN buttons you can no adjust the DMX address from 1 to 512
4. Push ENTER to confirm

CHNd channel adjust

1. Push the UP/DOWN buttons until the display shows CHNd.
2. Push ENTER
3. Use the UP/DOWN buttons to choose from CH4, CH18 or CH22
4. Push ENTER to confirm

SLNd Master Slave Settings

1. Push the UP/DOWN buttons until the display shows SLNd.
2. Push ENTER
3. Use the UP/DOWN buttons to choose from MAST, SL1 and SL2.
4. Push ENTER to confirm
5. SL2 is inverted to SL1, that means if you set up SL1 and SL2 even/odd, then you can create a wonderful interesting effect!

SHNd choose your show 1-18

1. Push the UP/DOWN buttons until the display shows SHNd.
2. Push ENTER
3. Use the UP/DOWN buttons to choose from the automatic shows 1 to 18.
4. Push the Menu button for 3 seconds to confirm

Attention! This mode works only in master mode!

To work with this mode the music mode has to be switched off!

Soun Sound To Light Mode

5. Push the UP/DOWN buttons until the display shows Soun.
6. Push ENTER
7. Use the UP/DOWN buttons to choose from on or oFF.
8. Push ENTER to confirm

bLNd Blackout or Stand By Mode

1. Push the UP/DOWN buttons until the display shows bLNd.
2. Push ENTER
3. Use the UP/DOWN buttons to choose from on and oFF
4. Push ENTER to confirm

Led LEDs On and OFF

1. Push the UP/DOWN buttons until the display shows Led.
2. Push ENTER
3. Use the UP/DOWN buttons to choose from on and oFF
4. Push ENTER to confirm

dISP inversion of the Display

1. Push the UP/DOWN buttons until the display shows dISP.
2. Push ENTER
3. Use the UP/DOWN buttons to choose from dISP and dSIP, in this case dSIP means the display is inverted and turned 180°
4. Push ENTER to confirm

TeST Selftest program

1. Push the UP/DOWN buttons until the display shows TeST.
2. Push ENTER
3. Now the item runs through a selftest program

MANu manuel test

1. Push the UP/DOWN buttons until the display shows MANu.
2. Push ENTER
3. Use the UP/DOWN buttons to choose the function you want to test
4. Push ENTER to confirm

FhrS shows the running time of the item

1. Push the UP/DOWN buttons until the display shows SLNd.
2. Push ENTER
3. Now the display shows the running time of the item.

Ver Software Version

1. Push the UP/DOWN buttons until the display shows SLNd.
2. Push ENTER
3. Now the display shows the actual software version

rSEt Reset function

1. Push the UP/DOWN buttons until the display shows rSEt.
2. Push ENTER
3. Now the item sets back to default settings

5. Master Slave configuration

If you want to daisy chain and control more than one item you can use the Master Slave Mode. To do so you have to daisy chain your items as you would do when you want to set up a dmx chain. You can use max 16 items for this mode. The first item in line is the master and the other items will react according to him. The master item can be set up to the desired program or mode and the others will follow. The slave items should be set up as follows.

1. Push the Menu button as often until you see SLNd in the display. Push Enter to confirm.
2. No choose the desired Slave mode and confirm again with ENTER.
3. The slave item will now react according to the master.

6. Sound to Light

- Set up the sound to light mode to ON as described above.
- Now the item will react according to the sensitivity you set up at the mic.
- This option can be used with the master slave mode as well.

7. Technical Data

Voltage:	100V ~ 240V 50/60Hz
Power consumption:	60W max.
Fuse:	4A/2A (120 & 230V)
Lightsource:	6 x 3W 3in1 LED
Beam Angle:	--
Weight:	3,8kg
Measures:	534 x 505 x 168,4mm
Modes:	DMX (4, 18, 22Ch) Automatic Mode Sound To Light Mode Master Slave Mode

7.1. Power daisy chain

At this item there is a power in and out. By using this you can daisy chain up to 12 of these items max. You have to use the IEC extensions to connect the items. Make sure never to use more than 12 items in a power chain that you don't overload the wires and items!

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