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1 General information

This user manual contains important information on the safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device to another user, be sure that they also receive this manual.

Our products and user manuals are subject to a process of continuous development. We therefore reserve the right to make changes without notice. Please refer to the latest version of the user manual which is ready for download under *www.thomann.de*.

1.1 Further information

On our website (*www.thomann.de*) you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

1.2 Notational conventions

This manual uses the following notational conventions:

Letterings

The letterings for connectors and controls are marked by square brackets and italics.

Examples: *[VOLUME]* control, *[Mono]* button.

Displays

Texts and values displayed on the device are marked by quotation marks and italics.

Examples: *'24ch'*, *'OFF'*.

1.3 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
WARNING!	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.

Warning signs	Type of danger
	Warning – high-voltage.
	Warning – dangerous optical radiation.
	Warning – suspended load.
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended for use as an electronic lighting effect by means of LED technology. The device is designed for professional use only and is not suitable for use in households. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Extend the operating life of the device by regular breaks and by avoiding frequent switching on and off. The device is not suitable for continuous operation.

Safety

DANGER!

Risk of injury and choking hazard for children!

Children can suffocate on packaging material and small parts. Children can injure themselves when handling the device. Never allow children to play with the packaging material and the device. Always store packaging material out of the reach of babies and small children. Always dispose of packaging material properly when it is not in use. Never allow children to use the device without supervision. Keep small parts away from children and make sure that the device does not shed any small parts (such knobs) that children could play with.

DANGER!

Danger to life due to electric current!

Within the device there are areas where high voltages may be present. Never remove any covers. There are no user-serviceable parts inside. Do not use the device when covers, safety equipment or optical components are missing or damaged.

DANGER!

Electric shock caused by short-circuit

Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.

WARNING!

Eye damage caused by high light intensity

Never look directly into the light source.

WARNING!

Risk of epileptic shock

Strobe lighting can trigger seizures in photosensitive epilepsy. Sensitive persons should avoid looking at strobe lights.

WARNING!

Risk of injury caused by falling objects

Make sure that the installation complies with the standards and rules that apply in your country. Always secure the device with a secondary safety attachment, such as a safety cable or a safety chain.

NOTICE!

Risk of fire

Do not block areas of ventilation. Do not install the device near any direct heat source. Keep the device away from naked flames.

NOTICE!

Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations. Only operate the device within the ambient conditions specified in the chapter 'Technical specifications' of this user manual. Avoid heavy temperature fluctuations and do not switch the device on immediately after it was exposed to temperature fluctuations (for example after transport at low outside temperatures). Dust and dirt inside can damage the unit. When operated in harmful ambient conditions (dust, smoke, nicotine, fog, etc.), the unit should be maintained by qualified service personnel at regular intervals to prevent overheating and other malfunction.

NOTICE!

Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user. Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

NOTICE!

Fire hazard due to exceedance of the maximum current

The device can power other devices of identical construction. The current consumption of all other devices connected in series must not exceed the values indicated in the technical specifications. Otherwise you risk injuries and irreparable damages to the device. Only connect so many identical devices that the maximum current consumption is not exceeded. Ensure the sufficient dimensioning (wire cross section) of the power cables used for all devices connected in series.

NOTICE!

Possible damage due to installation of a wrong fuse

The use of different types of fuses can cause serious damage to the unit. Fire hazard! Only fuses of the same type may be used.

3 Features

- LED blinder with ambient effect in stylish honeycomb shape
- Also ideal as decoration for clubs and bars
- 3×80 W warm white COB LED can be used as blinder effect or strobe
- The blinder LEDs can be controlled individually
- 48×1.5 W RGB SMD LEDs as backlight
- Can be controlled in 6 segments
- DMX control
- Can be operated in automatic mode, manual mode and with DMX control (5/8/21/23 CH)

For technological reasons, the light output of LEDs decreases over their lifetime. This effect increases with higher operating temperature. You can extend the service life of the illuminants by providing adequate ventilation and operating the LEDs with the lowest possible brightness.

4 Installation

Unpack and check carefully there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the product against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

WARNING!

Risk of injury caused by falling objects

Make sure that the installation complies with the standards and rules that apply in your country. Always secure the device with a secondary safety attachment, such as a safety cable or a safety chain.

NOTICE!

Risk of overheating

The distance between light source and the illuminated surface must be more than 1.5 m.

Provide sufficient ventilation.

The ambient temperature must always be below 40 °C.

NOTICE!

Possible data transmission errors

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.

Mounting options

You can install the unit in hanging or standing position. When in use, the device must always be attached to a solid surface or an approved mount. Use the openings provided on the two-piece bracket for attaching.

Always work from a stable platform whenever installing, moving or servicing the unit. In doing so, the area underneath the device must be cordoned off.

The safety cable must be attached to the safety eyelet.

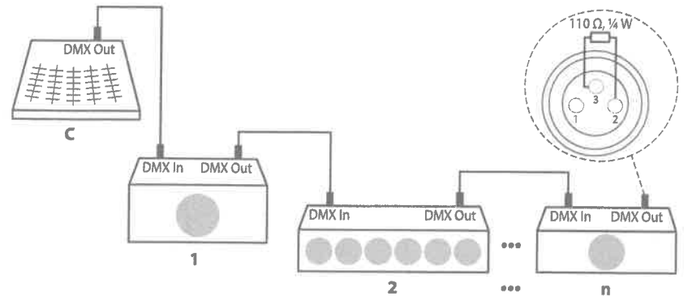
Please note that this device must not be connected to a dimmer.

5 Starting up

Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.

Connections in DMX mode

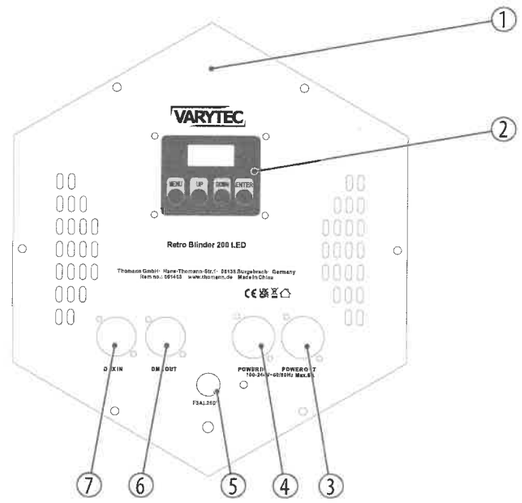
Connect the DMX input of the device to the DMX output of a DMX controller or another DMX device. Connect the output of the first DMX device to the input of the second one, and so on to form a daisy chain. Always ensure that the output of the last DMX device in the daisy chain is terminated with a resistor (110 Ω, ¼ W).



Connections in 'Master / Slave' mode

When you configure a group of devices in 'Master / Slave' mode, the first unit will control the others. This feature is especially useful to start a show without much programming. Connect the DMX output of the master unit to the DMX input of the first slave unit. Then connect the DMX output of the first slave unit to the DMX input of the second slave unit and so on.

6 Connections and operating elements



1 Safety cable eyelet

2 Display

[MENU] | Activates the main menu for selecting the operating mode

[UP] | Increases the displayed value by one

[DOWN] | Decreases the displayed value by one

[ENTER] | Selects an option of the respective operating mode, confirms the set value

3 *[POWER OUT]* | Lockable output socket (Power Twist) for powering further devices

4 *[POWER IN]* | Lockable input socket (Power Twist) for the power supply of the device

5 *[F3AL250V]* | Fuse

6 *[DMX OUT]* | DMX output, designed as XLR panel socket, 3-pin

7 *[DMX IN]* | DMX input, designed as XLR panel plug, 3-pin

7 Operation

7.1 Starting the device

To start operation, connect the device to the mains. The device is immediately operational.

The set values are retained during a power interruption.

7.2 Operating modes

Operating mode 'DMX'

This setting is only relevant when the device is controlled via DMX.

- Press *[MENU]* repeatedly until *'Address'* appears on the display. Confirm with *[ENTER]*. Use *[UP]* and *[DOWN]* to set the desired DMX address in a range from *'001'* ... *'512'* and confirm with *[ENTER]*.
- Press *[MENU]* repeatedly until *'CH Mode'* appears on the display. Confirm with *[ENTER]*. Use *[UP]* and *[DOWN]* to select a DMX mode and confirm with *[ENTER]*.
- Press *[MENU]* repeatedly until *'Mode'* appears on the display. Confirm with *[ENTER]*. Use *[UP]* or *[DOWN]* to select the menu item *'DMX'* and confirm with *[ENTER]* to enable the DMX mode.

Make sure that the DMX address number matches the configuration of your DMX controller. The following table shows the highest possible DMX address for the various DMX modes.

DMX mode	Highest possible start address
5-channel mode	508
8-channel mode	505
21-channel mode	492
23-channel mode	490

Automatic mode

This operating mode can only be activated when the device is operating in stand-alone mode or as master in a master / slave combination. This setting is only relevant if the device is not controlled via DMX.

- Press *[MENU]* repeatedly until *'Mode'* appears on the display. Confirm with *[ENTER]*.
  Use *[UP]* or *[DOWN]* to select the menu item *'Auto'* and confirm with *[ENTER]*.
  Use *[UP]* or *[DOWN]* to select the desired automatic mode *'Auto1'* ... *'Auto5'* and confirm with *[ENTER]*.
  To adjust the run speed of the automatic mode, use *[UP]* and *[DOWN]* to select the desired run speed *'Slow'* or *'Quick'* and confirm with *[ENTER]*.
- To enable the automatic mode only for the COB LED, press *[MENU]* repeatedly until the display shows *'Backlight'*. Confirm with *[ENTER]*.
  Use *[UP]* and *[DOWN]* to select the menu item *'Auto'* and confirm with *[ENTER]*.
  To disable the automatic mode only for the COB LED, use *[UP]* and *[DOWN]* to select the menu item *'Keep'* and confirm with *[ENTER]*.

Manual operation

This operating mode can only be activated when the device is operating in stand-alone mode or as master in a master / slave combination. This setting is only relevant if the device is not controlled via DMX.

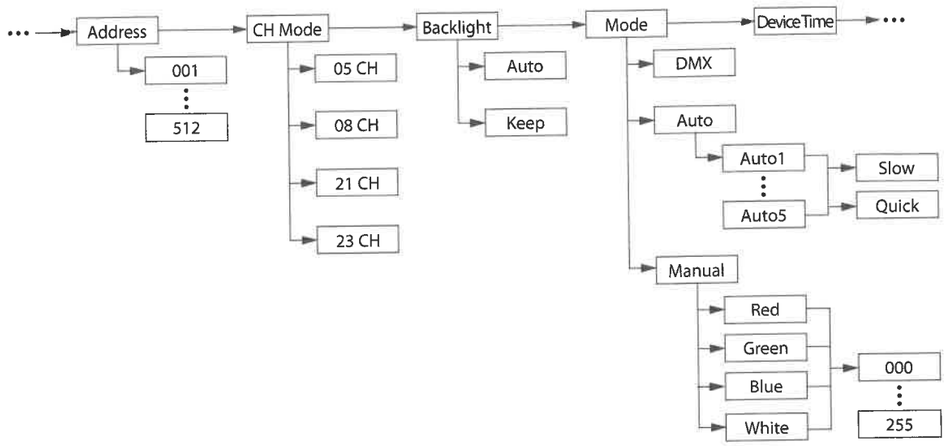
- Press *[MENU]* repeatedly until *'Mode'* appears on the display. Confirm with *[ENTER]*.
  Use *[UP]* or *[DOWN]* to select the menu item *'Manual'* and confirm with *[ENTER]*.
  Use *[UP]* and *[DOWN]* to select the desired colour (*'Red'*, *'Green'*, *'Blue'* or *'White'*) and confirm with *[ENTER]*.
- Use *[UP]* and *[DOWN]* to set the desired intensity of the selected colour in a range from *'000'* ... *'255'* and confirm with *[ENTER]*.

7.3 Operating time

In the *'Device Time'* menu, you call up information about the actual runtime of the LEDs.

- Press *[MENU]* repeatedly until *'Device Time'* appears on the display. Confirm with *[ENTER]*.
  The display shows the total runtime of the LEDs.

7.4 Menu overview



7.5 Functions in 5-channel DMX mode

Channel	LED	Value	Function
1	Ambient LED	0…255	Red intensity (0 % to 100 %)
2	Ambient LED	0…255	Green intensity (0 % to 100 %)
3	Ambient LED	0…255	Blue intensity (0 % to 100 %)
4	Ambient LED	0…255	White intensity (0 % to 100 %)
5	Strobe LED	0…3	open
		4…103	Strobe effect, increasing speed
		104…107	open
		108…207	Pulsing strobe effect, increasing speed
		208…212	open
		213…251	Random strobe effect, increasing speed
		252…255	open

7.6 Functions in 8-channel DMX mode

Channel	LED	Value	Function
1	Ambient LED	0…255	Dimmer (0 % to 100 %)
2	Strobe LED	0…3	open
		4…103	Strobe effect, increasing speed
		104…107	open
		108…207	Pulsing strobe effect, increasing speed
		208…212	open
		213…251	Random strobe effect, increasing speed
		252…255	open
3	Ambient LED	0…255	Red intensity (0 % to 100 %)
4	Ambient LED	0…255	Green intensity (0 % to 100 %)
5	Ambient LED	0…255	Blue intensity (0 % to 100 %)
6	Ambient LED	0…255	White intensity (0 % to 100 %)
7	Ambient LED	0…99	open

Channel	LED	Value	Function
		100…255	Automatic mode
8	Ambient LED	0…255	Run speed automatic mode, increasing speed

7.7 Functions in 21-channel DMX mode

Channel	LED	Value	Function
1	Ambient LED	0…255	Dimmer (0 % to 100 %)
2	Ambient LED	0…255	White intensity (0 % to 100 %)
3	Strobe LED	0…3	open
		4…103	Strobe effect, increasing speed
		104…107	open
		108…207	Pulsing strobe effect, increasing speed
		208…212	open
		213…251	Random strobe effect, increasing speed
		252…255	open
4	Ambient LED	0…255	Red intensity (0 % to 100 %), segment 1
5	Ambient LED	0…255	Green intensity (0 % to 100 %), segment 1
6	Ambient LED	0…255	Blue intensity (0 % to 100 %), segment 1
7	Ambient LED	0…255	Red intensity (0 % to 100 %), segment 2
8	Ambient LED	0…255	Green intensity (0 % to 100 %), segment 2

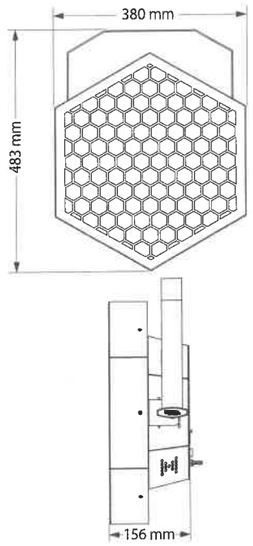
Channel	LED	Value	Function
9	Ambient LED	0…255	Blue intensity (0 % to 100 %), segment 2
10	Ambient LED	0…255	Red intensity (0 % to 100 %), segment 3
11	Ambient LED	0…255	Green intensity (0 % to 100 %), segment 3
12	Ambient LED	0…255	Blue intensity (0 % to 100 %), segment 3
12	Ambient LED	0…255	Red intensity (0 % to 100 %), segment 4
14	Ambient LED	0…255	Green intensity (0 % to 100 %), segment 4
15	Ambient LED	0…255	Blue intensity (0 % to 100 %), segment 4
16	Ambient LED	0…255	Red intensity (0 % to 100 %), segment 5
17	Ambient LED	0…255	Green intensity (0 % to 100 %), segment 5
18	Ambient LED	0…255	Blue intensity (0 % to 100 %), segment 5
19	Ambient LED	0…255	Red intensity (0 % to 100 %), segment 6
20	Ambient LED	0…255	Green intensity (0 % to 100 %), segment 6
21	Ambient LED	0…255	Blue intensity (0 % to 100 %), segment 6

7.8 Functions in 23-channel DMX mode

Channel	LED	Value	Function
1	Ambient LED	0…255	Dimmer (0 % to 100 %)
2	Ambient LED	0…255	White intensity (0 % to 100 %), segment 1
3	Ambient LED	0…255	White intensity (0 % to 100 %), segment 2
4	Ambient LED	0…255	White intensity (0 % to 100 %), segment 3
5	Strobe LED	0…3	open
		4…103	Strobe effect, increasing speed
		104…107	open
		108…207	Pulsing strobe effect, increasing speed
		208…212	open
		213…251	Random strobe effect, increasing speed
		252…255	open
6	Ambient LED	0…255	Red intensity (0 % to 100 %), segment 1
7	Ambient LED	0…255	Green intensity (0 % to 100 %), segment 1
8	Ambient LED	0…255	Blue intensity (0 % to 100 %), segment 1

Channel	LED	Value	Function
9	Ambient LED	0…255	Red intensity (0 % to 100 %), segment 2
10	Ambient LED	0…255	Green intensity (0 % to 100 %), segment 2
11	Ambient LED	0…255	Blue intensity (0 % to 100 %), segment 2
12	Ambient LED	0…255	Red intensity (0 % to 100 %), segment 3
13	Ambient LED	0…255	Green intensity (0 % to 100 %), segment 3
14	Ambient LED	0…255	Blue intensity (0 % to 100 %), segment 3
15	Ambient LED	0…255	Red intensity (0 % to 100 %), segment 4
16	Ambient LED	0…255	Green intensity (0 % to 100 %), segment 4
17	Ambient LED	0…255	Blue intensity (0 % to 100 %), segment 4
18	Ambient LED	0…255	Red intensity (0 % to 100 %), segment 5
19	Ambient LED	0…255	Green intensity (0 % to 100 %), segment 5
20	Ambient LED	0…255	Blue intensity (0 % to 100 %), segment 5
21	Ambient LED	0…255	Red intensity (0 % to 100 %), segment 6
22	Ambient LED	0…255	Green intensity (0 % to 100 %), segment 6
23	Ambient LED	0…255	Blue intensity (0 % to 100 %), segment 6

8 Technical specifications



Light source	3 × COB LED, 80 W (strobe) 48 × RGB SMD LED, 1.5 W (ambient)	
COB LED properties	Colour temperature	2700 K
Control	DMX, buttons and display on the unit	
Number of DMX channels	5, 8, 21, 23	
Input connections	Power supply	Lockable input socket (Power Twist)
	DMX control	XLR chassis socket, 3-pin
Output connections	Power supply	Lockable output socket (Power Twist)
	DMX control	XLR chassis socket, 3-pin
Power consumption	250 W	
Supply voltage	100 - 240 V ~ 50/60 Hz	
Fuse	5 mm × 20 mm, 2 A, 250 V, fast blow	
Flash rate	0 Hz…25 Hz	

International Protection Rating	IP20	
Mounting options	Hanging, standing	
Dimensions (W × H × D)	380 mm × 483/438* mm × 156 mm	
Weight	3 kg	
Ambient conditions	Temperature range	0 °C - 40 °C
	Relative humidity	20 % - 80 % (non-condensing)

* - With and without mounting bracket

9 Plug and connection assignments

Introduction

This chapter will help you select the right cables and plugs to connect your valuable equipment so that a perfect light experience is guaranteed.

Please take our tips, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into a socket, the result of an incorrect connection may be a destroyed DMX controller, a short circuit or 'just' a not working light show!

DMX connections

The unit offers a 3-pin XLR socket for DMX output and a 3-pin XLR plug for DMX input. Please refer to the drawing and table below for the pin assignment of a suitable XLR plug.

Pin	Configuration
1	Ground, shielding
2	Signal inverted (DMX–, 'cold signal')
3	Signal (DMX+, 'hot signal')

10 Troubleshooting

NOTICE!

Possible data transmission errors

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.

In the following we list a few common problems that may occur during operation. We give you some suggestions for easy troubleshooting:

Symptom	Remedy
The unit does not work, no light	1. Check the mains connection and the fuse.
	2. Check the settings in *'manual'* mode.
No response to the DMX controller	1. Check whether the DMX cables run near or parallel to high-voltage cables that may cause damage or interference to a DMX interface circuit.
	2. Try using another DMX controller.

If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at *www.thomann.de*.

11 Cleaning

Device components

Clean the device components that are accessible from the outside regularly. The cleaning frequency depends on the operating environment: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the device components.

- Clean with a dry soft cloth.
- Stubborn dirt can be removed with a slightly dampened cloth.
- Never use solvents or alcohol for cleaning.

12 Protecting the environment

Disposal of the packaging material

For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

Disposal of your old device

This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.