



Manual



LED Ball RGB 50cm 3x3W

Table of contents

1.	Safety instructions	3
1.1.	FOR SAFE AND EFFICIENT OPERATION	3
1.2.	Safety related instructions	4
1.3.	Intended use of the device	4
1.4.	Overhead installation	5
1.5.	Connection to the mains	7
2.	Controlling	8
2.1.	General	8
2.2.	Structure of the menu	8
2.3.	DMX table	9
2.3.1.	DMX Mode 1	9
2.3.2.	DMX Mode 2	9
2.3.3.	DMX Mode 3	9
2.3.4.	DMX Mode 4	9
2.3.5.	DMX Modus 5	10
2.3.6.	DMX Mode 6	10
3.	Technical data	11

1. Safety instructions



- This device is suitable for indoor use (not outdoors) 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 exceeding 104°F /35°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.

1.2. Safety related instructions



ATTENTION!

Be very careful when you are dealing with dangerous supply voltage. With these voltages there is the danger to get an electric shock.

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. Activate the device not 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 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.

Unplug the power supply before every cleaning.

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



Health risk!

Do not look directly into the light source. Some people can get epileptic seizures. This is especially for people where epilepsy was determined by a physician.

Keep away children and laymen off the device.

1.3. Intended use of the device

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 beam is not pointed at combustible materials on a distance of at least 0.5m.
Around the other parts of the device and between combustible materials you also need a distance of at least 0.5m.

Operate the device not 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.

The device has basically been protected by a suitable safety.

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

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

For reasons of safety unauthorized changes are forbidden.

1.4. Overhead installation



Danger of life!

You have to observe the regulations of BGV C1 (formerly VBG 70) and EN60598-2-7! Installations are to carry out by skilled personnel only.

Basically installation has to be made by using a second separate suspension. This can be e.g. a suitable net. The second suspension must 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:

In tidal fall you should install the device out of the lounge area of people

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 must be always secured by a safety rope which is designed to hold the twelvefold weight of 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 exceed 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.

The lamp which is used in this device is a gas discharge lamp. If you turn off the lamp you have to wait at least 15 minutes before turn it on again. Fast on and off of the lamp reduces the lifetime drastic. Breaks increase the lifetime.

1.5. Connection to the mains



Danger of life!

Electrical connections should be made by skilled persons only.

Connect the device with the plug to the power supply. .



Danger of life!

Before the first start-up the device should be checked by an expert.

2. Controlling

2.1. General

You can use the device with four operating modes.

- DMX Mode: in this mode you can control the device with a 512DMX controller.
- Program Mode: in this mode you can choose internal programs.
- Speed Mode. In this mode you can set the speed of the internal programs
- - Sound Mode: in this mode the device is controlled by the music

2.2. Structure of the menu

DMX ADD	A001-A512	Setting of the DMX address
SET UP	DISP ON	LCD-backlight always on.
	DISP OFF	LCD-backlight shut down after 10 seconds.
SETUPDIM	000%-100%	Manual dimming 0-100% This setting overrides all internal programs and the max. Output, the dimmer channel in DMX mode!
COLORSET	RED	000%-100%
	GREEN	000%-100%
	BLUE	000%-100%
DMX	Mode 1	1-channel Mode
	Mode 2	2-channel Mode
	Mode 3	3-Kanal-Mode
	Mode 4	5-channel-Mode
	Mode 5	6-channel Mode
	Mode 6	7-channel-Mode
	SLAVE	The device follows the functions of the master device.
PROGRAM	001	Color change sequence 1 (3 colors)
	002	Color change sequence 1 (7 colors)
	003	Color transition (3 colors)
	004	Color transition (7 colors)
	005	Strobe (3 colors)
	006	Color change sequence 2 (3 colors)
	007	Color change sequence 2 (7 colors)
		Color transition (6 colors)
SPEED	000-031	Program speed 000 = Stop; 001-031 = fast → slow
SOUND	000-031	Music sensitivity 000 = Off; 001-031 = low → high

2.3. DMX table

2.3.1. DMX Mode 1

Channel	Value	Function
1	0-255	0 = Off; 1-255 = different color macros(36)

2.3.2. DMX Mode 2

Channel	Value	Function
1	0-255	0 = Off; 1-255 = different color macros (36)
2	0-255	Dimmer 0-100%

2.3.3. DMX Mode 3

Channel	Value	Function
1	0-255	Dimmer Red 0-100%
2	0-255	Dimmer Green 0-100%
3	0-255	Dimmer Blue 0-100%

2.3.4. DMX Mode 4

Channel	Value	Function
1	0-255	Dimmer Red 0-100%
2	0-255	Dimmer Green 0-100%
3	0-255	Dimmer Blue 0-100%
4	0-255	Strobe 0-15 = Off; 16-255 = 1Hz-12Hz
5	0-255	Dimmer all 0-100%

2.3.5. DMX Modus 5

Channel	Value	Function
1	0-255	Dimmer Red 0-100%
2	0-255	Dimmer Green 0-100%
3	0-255	Dimmer Blue 0-100%
4	0-255	Strobe 0-15 = Off; 16-255 = 1Hz-12Hz
5	0-255	Dimmer all 0-100%
6	Special functions	
	0-31	No function
	32-63	Automatic dimming (Ramp-up)
	64-95	Automatic dimming (Ramp-down)
	96-127	Automatic dimming (Ramp-up/Ramp down)
	128-159	Automatic color transition
	160-191	Random color change (3 colors)
	192-223	Random color change (7 colors)
	224-255	Activates the sound to light mode
7	0-255	Speed for special functions (slow – fast)

2.3.6. DMX Mode 6

Channel	Value	Function
1	0-255	Dimmer Red 0-100%
2	0-255	Dimmer Green 0-100%
3	0-255	Dimmer Blue 0-100%
4	0-255	0 = Off; 1-255 = different color macros (32)
5	0-255	Strobe 0-15 = Off; 16-255 = 1Hz-12Hz Speed for special functions (slow – fast)
6	Special functions	
	0-31	No function
	32-63	Automatic dimming (Ramp-up)
	64-95	Automatic dimming (Ramp-down)
	96-127	Automatic dimming (Ramp-up/Ramp down)
	128-159	Automatic color transition
	160-191	Random color change (3 colors)
	192-223	Random color change (7 colors)
	224-255	Activates the sound to light mode
7	0-255	Dimmer all 0-100%

3. Technical data

Power supply	90-240V/AC, 50-60Hz
Power consumption	Max. 13W
Weight	4.2kg
Measurements (LxWxH)	500x500x600mm
DMX input	3 Pin XLR male
DMX output	3 Pin XLR female

Importeur:

B & K Braun GmbH

Industriestraße 2

D-76307 Karlsbad

www.bkbraun.com

info@bkbraun.com

