



beamZ 153.705 Whirlwind 3-In-1 LED Effect DMX User Manual

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SAFETY INSTRUCTION



WARNING: Before carrying out any operations with the unit, carefully read this instruction manual and keep it with care for future reference. It contains important information about the installation, usage, and maintenance of the unit.

- Unpack and check carefully that there is no transportation damage before using the unit
- Please read these instructions carefully and follow the instructions.
- Observe all safety warnings. Never remove safety warnings or other information from the equipment.
- Be sure that no ventilation slots are blocked; otherwise, the unit will overheat.



WARNING: Before connecting the equipment to the power outlet, first verify that the mains voltage and frequency match the values specified on the equipment. If the equipment has a voltage selection switch, connect the equipment to the power outlet only if the equipment values and the mains power values match. If the included power cord or the power adapter does not fit in your wall outlet, contact your electrician.

- After connecting the unit, check all cables in order to prevent damage or accidents, e.g., due to tripping hazards.
- Make sure that the power cord is never crimped or damaged. Check the unit and the power cord from time to time.
- Always disconnect power from the mains, when the unit is not used or before cleaning! Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.
- Unplug the power cord and power adapter from the power outlet if there is a risk of a lightning strike or before extended periods of disuse.
- Do not switch the unit on and off in short intervals.
- Do not connect the unit to a dimmer pack.
- Install the unit in a well-ventilated place.
- Never place any material over the lens.
- Never let the sunlight light directly to the front lens, even when the unit is not working.
- Always allow free air space of at least 50 cm around the unit for ventilation.
- Make sure that the area below the installation place is blocked when rigging, derigging, or servicing the unit.
- For mounting height >100 cm, always fix the unit with an appropriate safety rope. Fix the safety rope at the correct fixation points only.

The safety rope must never be fixed at the transport handles!

- Never look directly at the light beam. Please note that fast changes in lighting, e. g. flashing light may trigger epileptic seizures in photosensitive persons or persons with epilepsy.
- This unit is not designed for permanent operation. Consistent operation breaks will ensure that the unit will serve you for a long time without defects.



WARNING: If the power cord of the unit is equipped with earthing contact, then it must be connected to an outlet with a protective ground.

Never deactivate the protective ground of a power cord.

- Make sure that the unit is not exposed to extreme heat, moisture, or dust.
- Clean the unit using a dry cloth.
- Do not touch the unit bare-handed during its operation (housing becomes very hot). Allow the unit to cool for at least 5 minutes before handling.
- This unit is designed exclusively for indoor use, do not use this equipment in the immediate vicinity of fluid (does not apply to special outdoor equipment – in this case, observe the special instructions noted below). Do not expose this unit to flammable materials, fluids or gases.
- If the unit has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your unit. Leave the unit switched off until it has reached room temperature.
- Never attempt to bypass the thermostatic switch or fuses.

- Do not dismantle or modify the unit.
- For replacement use fuses/bulbs of the same type and rating only.
- Repairs, servicing, and electric connections must be carried out by a qualified technician.
- The ambient temperature must always be between -5° C and +45° C.
- If this unit is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.
- Plastic bags must be kept out of reach of children.
- The unit must be installed out of the reach of children. Never leave the unit running unattended.



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead, it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling this product, please contact your local Civic Office, your household waste disposal service, or the shop where you purchased the product.

UNPACKING INSTRUCTION



CAUTION: Immediately upon receiving the product, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain the packing material for inspection if any parts appear damaged from shipping or the package itself shows signs of mishandling. Save the package and all packing materials. In the event that the product must be returned to the factory, it is important that the product be returned in the original factory box and packing.

If the unit has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your unit. Leave the unit switched off until it has reached room temperature.

POWER SUPPLY

The label on the backside of the unit is indicated on this type of power supply must be connected. Check that the mains voltage corresponds to this, all other voltages than specified, the light effect can be irreparably damaged. The product must also be directly connected to the mains and may be used. No dimmer or adjustable power supply.

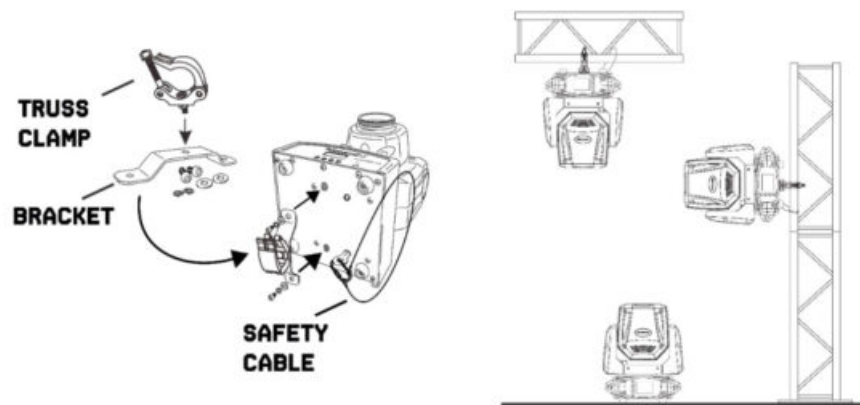


WARNING: Always connect the unit to a protected circuit (circuit breaker or fuse). Make sure the unit has an appropriate electrical ground to avoid the risk of electrocution or fire.

RIGGING

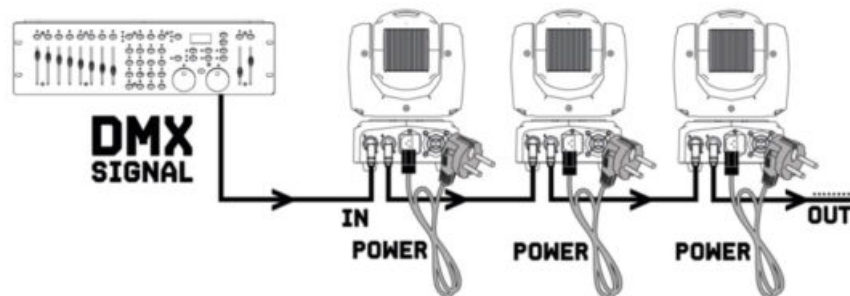
The unit may be set up on a stable and even surface. By means of the fixing facilities of the baseplate, the unit can also be mounted upside down to a truss, see the below picture. For fixing, certified clamps with correct safe working load is required. According to the figure, the quick-lock bolts of the omega brackets are placed into the openings provided in the base plate and turned clockwise until they lock (to the stop). The mounting place must be of sufficient stability and be able to support a weight of 10 times the unit's weight. Secure the unit with a safety cable so that it cannot fall down.

When carrying out any installation, always comply with European and national guidelines concerning rigging, truss, and all other safety issues. Always let the installation be checked out by an authorized dealer !

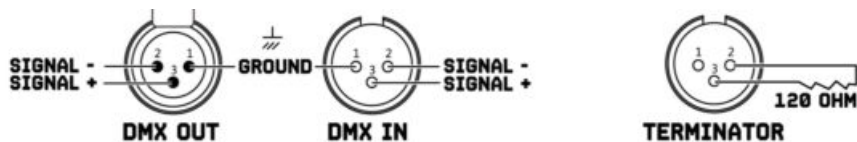


DMX512 CONTROL

If you are using a standard DMX controller, you can connect the DMX output of the controller directly to the DMX input of the first unit in a DMX chain. Always connect the output of one unit with the input of the next unit until all units are connected.



CAUTION: At the last unit, you must close the DMX line with a terminating resistor. Take an XLR connector and solder a 120 Ohm resistor between signal (-) and signal (+) and connect it to the DMX output of the last unit in the line.



REMOTE CONTROLLER

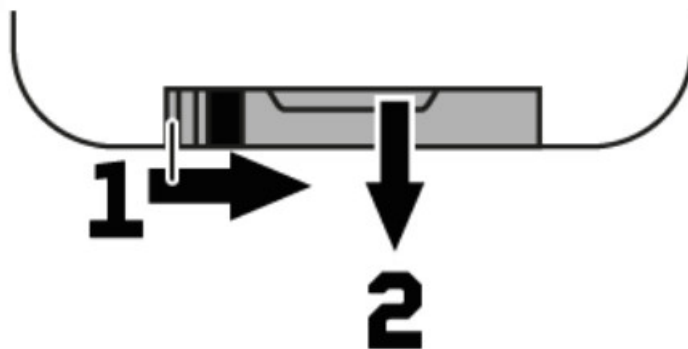


BUTTON	FUNCTION
ON	ON
OFF	OFF
DMX	DMX Mode
AUTO	Auto Running Mode
SPEED+	Auk Running Speed up
SPEED-	Auk Running Speed down
VOICE	Sound Control Mode
MIC+	Sound Sensitive +
MIC-	Sound Sensitive –



CAUTION: The remote control is supplied with a battery inserted. An insulating foil between the battery and the battery contacts prevents the battery from being discharged during storage. Prior to the first operation remove the foil from the battery support on the rear side of the remote control. Otherwise, the operation of the remote control is not possible.

If the range of the remote control decreases, replace the battery. For this purpose, on the rear side of the remote control press, the small bar with the groove to the right (1) and at the same time remove the battery support (2). For operation, one 3 V button cell type CR 2025 is required. When inserting, pay attention that the positive pole of the button cell shows upwards in the support.



CLEANING

The buildup of dust, dirt and other airborne particles will reduce the unit's light output. It will also prevent the unit from cooling correctly, and this will reduce the unit's lifetime. The rate of dirt buildup will vary depending on environmental factors such as airborne dust, use of smoke machines, airflow from ventilation systems, etc. The unit's cooling fans will accelerate buildup, and any smoke particles that are present in the atmosphere will increase the tendency for dirt to clog.

To get the best performance and lifetime from the unit, inspect it regularly and clean it as soon as you see signs of dirt buildup.

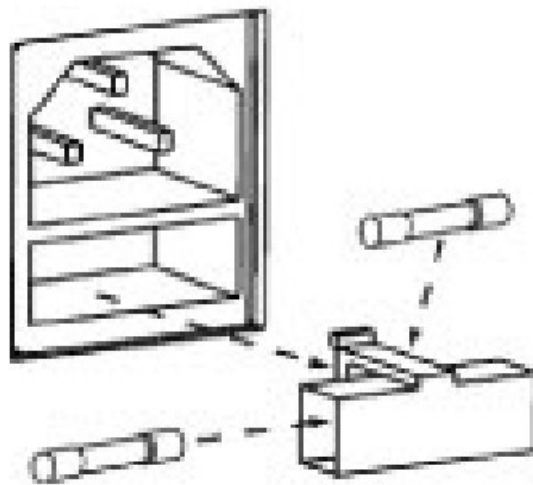
Assess the operating environment each time you begin to use the unit. In dusty or smoky conditions, inspect the unit after a few hours and check it frequently the unit may attract dirt faster than you expect. Draw up a cleaning schedule that will make sure that dirt is removed before it can build up.

Use the following guidelines:

- Disconnect the unit from power and allow it to cool completely before cleaning.
- Do not use solvents, abrasives, or any other aggressive product to clean the unit.
- Vacuum or use low-pressure compressed air to remove dust and loose particles from surfaces and air vents. Prevent the blades of cooling fans from turning before you aim a vacuum or air jet at the fan, or you may spin the fan too fast and damage it.
- Clean glass components by wiping gently with a soft, clean, lint-free cloth moistened with a weak detergent solution. Put the solution on the cloth and not on the surface to be cleaned. Avoid rubbing glass surfaces.
- Dry the unit with a soft, clean, lint-free cloth or low-pressure compressed air before reapplying power.

REPLACING THE FUSE

If the fuse is defective, replace the fuse with a fuse of the same type and value. Before replacing the fuse, unplug the mains lead.



Procedure:

Step 1: Open the fuse holder on the rear panel with a fitting screwdriver.

Step 2: Remove the old fuse from the fuse holder.

Step 3: Install the new fuse in the fuse holder.

Step 4: Replace the fuse holder in the housing.

TROUBLESHOOTING

The checklist below may help you troubleshoot in the unlikely event that a problem occurs while using the product:

SYMPTOM	POSSIBLE CAUSE	SUGGESTED ACTION
No response from the unit.	No power to the unit. Fuse has blown or internal fault.	Check that power is turned on. Check cables and connections. Replace main fuse or contact Beamz support or Beamz authorized service partner. Do not remove the base or yoke covers. Do not attempt to replace a fuse or carry out any repairs or services that are not described in this User Manual unless you have both authorizations from Beamz support or Beamz's authorized service partner.
Unit resets correctly but does not respond (or does not respond correctly) to the controller.	The controller is not connected. Bad DMX-line. DMX-line has no end resistance. Incorrect unit addressing. A unit is defective and is disturbing data transmission on the DMX-line. Pin 2 and 3 are reversed in the XLR connection.	Connect controller. Inspect connections and cables. Correct poor connections. Repair or replace damaged cables. Insert DMX terminator plugin DMX output socket of the last unit on DMX-line. Check the unit address and DMX mode settings. Unplug DMX IN and OUT connectors and connect them directly together to bypass one unit at a time until normal operation is regained. Has the defective unit been serviced by an authorized technician? Inspect connections and cables. Install a phase-reversing cable between the units or swap pins 2 and 3 in the unit, that behaves erratically.
Error after unit reset.	The effect requires mechanical adjustment.	Check the unit's software version and error messages for more information. Contact Beamz support or Beamz authorized service partner.
Light output cuts out intermittently.	A unit too hot. LEDs damaged. The power supply settings do not match local AC voltage and frequency.	A unit too hot. LEDs damaged. The power supply settings do not match local AC voltage and frequency.

CONTROL MENU

MENU		DESCRIPTION
A001-A512		DMX address setting
AI_1 – AI_9	Internal program 1-9	Auto program
SI_1 – SI_9	Internal sound program	Sound program, 1-9 means sensitive

DMX CHANNELS

CHANNE L	FUNCTION	VALUE DESCRIPTION
1	PAN Rotation	000-255 0-380degrees movement
2	PAN Rotation endless	000-009 No function
		010-127 Pan forward rotate from slow to fast
		128-255 Pan reverse rotates from fast to slow
3	Dimmer	000-255 Linear dimmer from dark to brighter
4	Strobe	000-009 No function
		010-255 Strobe from slow to fast
5	Gobo Colour	000-255 Red dimmer from dark to brighter
6		000-255 Green dimmer from dark to brighter
7		000-255 Blue dimmer from dark to brighter
8		000-255 White dimmer from dark to brighter
9	Line Colour	000-255 Red dimmer from dark to brighter
10		000-255 Green dimmer from dark to brighter
11		000-255 Blue dimmer from dark to brighter
12		000-255 White dimmer from dark to brighter
13	Ball Colour	000-255 Red dimmer from dark to brighter
14		000-255 Green dimmer from dark to brighter
15		000-255 Blue dimmer from dark to brighter
16		000-255 White dimmer from dark to brighter
17	Mode	000-50 CH1-CH16 Valid
		051-150 Random Auto Running
		150-255 Sound Control
18	Reset	000-199 None
		200-255 Reset after 3s

TECHNICAL SPECIFICATION

Rated voltage	: 100-240VAC, 50-60Hz, 1.0 – 0.5A
LED	: Red, Green, Blue, White
Fuse	: F5A
DMX Channels	: 17
Functions	: DMX, Automatic programs, Sound to light, and IRC.
Dimensions per unit	: 220 x 220 x 230mm
Weight (per unit)	: 1,8 kg

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

The products referred to in this manual conform to the European Community Directives to which they are subject:

- Low Voltage (LVD) 2014/35/EU
- Electromagnetic Compatibility (EMC) 2014/30/EU
- Restriction of Hazardous Substances (RoHS) 2011/65/EU



is a leading developer of lighting products, including intelligent DMX moving heads, wireless battery operated DMX effects, static washes, sound-activated club effects, strobes & blacklights, LED lighting, fog and special effects machines, lasers, and indoor and outdoor architectural lighting, as well as lighting controllers and protective bags.

BEAMZLIGHTING.COM

Documents / Resources

	<p>beamZ 153.705 Whirlwind 3-In-1 LED Effect DMX [pdf] User Manual 153.705, Whirlwind 3-In-1 LED Effect DMX</p>
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