Numurk Lightwave Active Speaker with LED User Guide

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Contents

1 Introduction
  1.1 Box Contents
  1.2 Support
2 Setup
  2.1 Connection Diagrams
3 Important Safety Precautions
  3.1 Stand-Mounting
  3.2 Sound Level
4 Features
  4.1 Rear Panel
5 Appendix
  5.1 Technical Specifications
  5.2 Trademarks and Licenses
6 Documents / Resources
7 Related Posts

Introduction

Box Contents

- Lightwave
- Power Cable
- User Guide
- Safety & Warranty Manual

Support

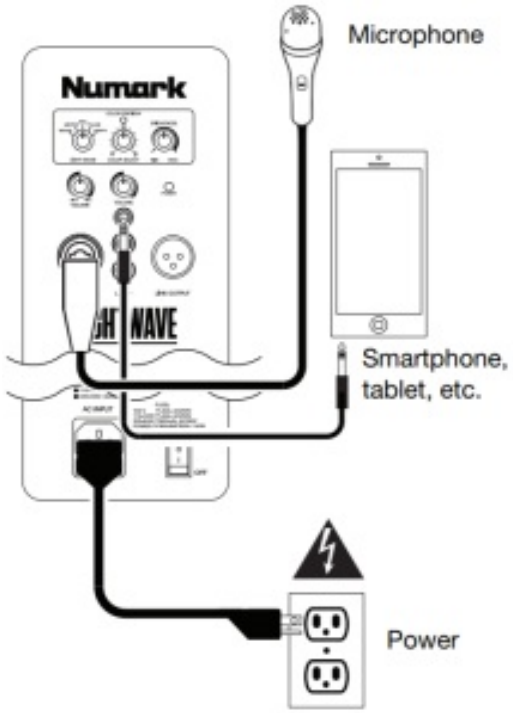
For the latest information about this product (system requirements, compatibility information, etc.) and product registration, visit **numark.com**.
For additional product support, visit **numark.com/support**.

Setup

Connection Diagrams

Items not listed under the Box Contents are sold separately.

Example 1: One Lightwave loudspeaker with vocal microphone and smartphone, tablet, etc.:

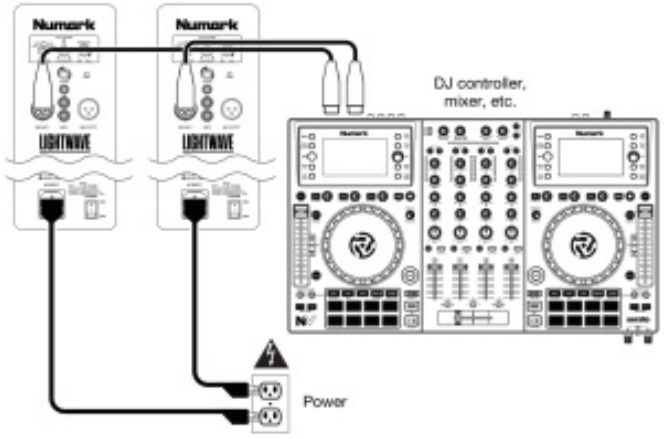


Connect a dynamic microphone to the Ch. 1 **Input** using an XLR or 1/4″ (6.35 mm) TRS cable. Connect a smartphone, tablet, etc. to the **Ch. 2 Input** using a 1/8″ (3.5 mm) TRS cable.

Note: *We recommend using dynamic microphones with the Lightwave loudspeaker rather than condenser microphones. If you use a microphone that requires +48V of phantom power, you must connect it to an external phantom power supply. Lightwave does not supply any phantom power.*

Example 2: Two Lightwave loudspeakers with remote mixer, DJ controller, etc.:

Connect the left and right output of your DJ mixer, controller, etc. to **Ch. 1 Input** of each loudspeaker using XLR or 1/4″ (6.35 mm) TRS cables.
Tip: To send the same mix to both Lightwave loudspeakers, connect your DJ mixer, controller, etc. to the RCA Ch. **2 Inputs** of one loudspeaker, and then connect that loudspeaker's Link **Output** to the **Ch. 1 Input** of the other loudspeaker. Both Lightwave loudspeakers will then play identical summed mono mixes.



Important Safety Precautions

Please note: Numark and inMusic are not responsible for the use of its products or the misuse of this information for any purpose. Numark and inMusic are not responsible for the misuse of its products caused by avoiding compliance with inspection and maintenance procedures. Please also refer to the included safety and warranty manual for more information.

Stand-Mounting

- Always install loudspeakers in accordance with applicable electrical and building codes.
- Install the loudspeaker according to its maximum weight. Check the specifications of your stand or pole to ensure it can support the loudspeaker's weight. Also, observe all safety precautions specified by the manufacturer.
- Do not mount multiple loudspeakers on the same stand or pole.
- Always verify that the stand or pole is on a flat, level, and stable surface. Also, fully extend the legs of tripod-style stands, and ensure its legs do not present a trip hazard.
- Inspect the stand (or pole and associated hardware) before each use and do not use equipment with worn, damaged, or missing parts.
- Always be cautious in windy, outdoor conditions. You may need to place additional weight (e.g., sandbags) on stand's base to improve stability. Do not attach banners or similar items to any part of a loudspeaker system. Such attachments could act as a sail and topple the system.
- Unless you are confident that you can handle the loudspeaker's weight, ask another person to help you lift it onto the stand or pole.
- Make sure your cables are out of the way of performers, production crew, and audience so they will not trip over them, pulling the loudspeaker off the stand or pole.

Sound Level

Permanent hearing loss may be caused by exposure to extremely high noise levels. The U.S. Occupational Safety and Health Administration (OSHA) has specified permissible exposures to certain noise levels. According to OSHA, exposure to high sound pressure levels (SPL) in excess of these limits may result in hearing loss. When using equipment capable of generating high SPL, use hearing protection while such equipment is under operation.

Hours per day	SPL (dB	Example
8	90	Small gig
6	92	Train
4	95	Subway train
3	97	High level desktop monitors
2	100	Classical music concert
1.5	102	Riveting machine
1	105	Machine factory
0.50	110	Airport
0.25 or less	115	Rock concert

Features

Rear Panel

1. **Power Input:** Connect the included power cable to this input and connect the other end of the cable to a power source. Make sure the loudspeaker's Power Switch is set to "off" when plugging and unplugging the cable.
2. **Fuse:** If the unit's fuse is broken, lift this tab to replace the fuse. Replace it with a fuse with an appropriate rating (printed under the unit's power cable input). Using a fuse with an incorrect rating can damage the unit and/or fuse.
3. **Power Switch:** Turns the loudspeaker on/off. Make sure the Master Volume knob is set to "zero" before turning it on.
4. **Power LED:** Illuminates when the loudspeaker is on.
5. **Input:** Use a standard 1/4″ (6.35 mm) TRS or XLR cable (not included) to connect your sound source to Channel 1. Use a standard 1/8″ (3.5 mm) TRS or RCA cable (not included) to connect a sound source to Channel 2. If you use a microphone that requires +48V of phantom power, you must connect it to an external phantom power supply. Lightwave does not supply any phantom power.
6. **Input Volume:** Turn this knob to adjust the input volume of the channel.
7. **Link Output:** Use a standard XLR cable (not included) to connect this output to the input of another loudspeaker. The signal sent from this output is a summed mono signal of all three Inputs, post-Input Volume.
8. **Light Mode:** Turn this knob to select how the lights on the front panel • • **Mood:** The lights will light up solidly.

   • Meter: The column of lights will simulate a digital volume meter. Lower level signals trigger only the bottom lights. Higher-level signals trigger all lights.

   • Mix: The lights will light up according to the frequency spectrum of the audio signal. Bass frequencies will produce more red light. Mid-range frequencies will produce more green light. Treble frequencies will produce more blue light.

   • **Pulse:** The audio signal will cause the lights to pulse with one color (determined by the Color Select knob) with their brightness determined by the Brightness knob.

   • Party: When the Color Select knob is fully counterclockwise, the LEDs cycle rapidly through a pre-programmed dynamic show of colors and meter levels. Turn the Color Select knob clockwise from this position to change to a slowercontinuous cycle of solid colors. Turn the Color Select knob further clockwise to slow down how quickly the colors change.

   To turn the lights off, turn the Brightness knob to its counterclockwise-most position.
9. **Color Select:** Turn this knob to set the color of the lights on the front panel. The color of the front-panel lights and the Color Preview LED will change as you turn it.

   Note: *This knob affects the color* ***Mood, Meter,*** *and* ***Pulse*** *modes only. It has a different function in* ***Party*** *mode.*
10. Color Preview LED: This light is the same color as the lights on the front panel. You can turn the Color Select knob to change it.
11. Brightness: Turn this knob to set the brightness of the lights on the front panel. To turn the lights off, turn this knob to its counterclockwise-most position.

Appendix

Technical Specifications

System Type	2-way bi-amplified powered loudspeaker with sound-reactive LED lights	
Power Amplifier	Bi-amplified; 200 W peak: 130 W LF + 70 W HF	
High-Frequency	**1** 1″ (25.4 mm) neodymium compression driver	
Low-Frequency	**3** 6.5″ (165 mm) with 1″ (25.4 mm) voice coil	
Frequency Response	65 Hz – 20 kHz	
Crossover Frequency	1.8 KHz, electronic	
Maximum SPL	94 dB SPL	
Light Type	38 tri-color (red-green-blue) high-intensity LEDs; 12 W total	
Light Modes	5 modes: Mood, Meter, Mix, Pulse, Party	
Light Controls	Mode selection knob; color selection knob with RGB preview LED; brightness knob	
Connections	**1** XLR-1/4″ (6.35 mm) TRS combination input (Channel 1) **1** 1/8″ (3.5 mm) TRS/stereo input (Channel 2) **1** RCA (line-level) stereo input pair (Channel 2) **1** XLR link output **1** IEC AC power connection	
Protections	Thermal, overload	
Enclosure	Trapezoidal wood cabinet MDF enclosure with vinyl wrap; black metal protective corners; molded, ergonomically designed plastic handle; 4 rubber feet; 36 mm pole socket for stand mounting	
	AC Input:	100 V AC, 50/60 Hz (±10%) 110-120 V AC, 50/60 Hz (±10%) 220-240 V AC, 50/60 Hz (±10%)

Power	**Fuse:**	100-120 V T1.6AL AC250V 220-240 V T800mAL AC250V
	Power Consumption:	150 W
Dimensions (height x width x depth)	29.16″ x 8.36″ x 10.12″ 741 mm x 212 mm x 257 mm	
Weight	22.1 lbs. 10.0 kg	

Trademarks and Licenses

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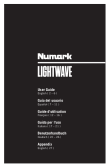
Documents / Resources

	**Numurk Lightwave Active Speaker with LED** [pdf] User Guide Lightwave, Active Speaker with LED, Lightwave Active Speaker with LED

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