

# JBL

**KARAOKE SPEAKER**

KHM10

**OWNER'S GUIDE**

# THANK YOU FOR CHOOSING JBL

For more than 50 years, JBL has been involved in every aspect of music and film recording and reproduction, from live performances to monitoring the recordings you play in your home, car or office. We're confident that the JBL loudspeaker you have chosen

will provide every note of enjoyment that you expect – and that when you think about purchasing additional audio equipment for your home, car or office, you will once again choose JBL. Please take a moment to register your product on our Web site at [www.jbl.com](http://www.jbl.com). This

enables us to keep you posted on our latest advancements, and helps us to better understand our customers and build products that meet their needs and expectations. JBL Consumer Products

## THE KARAOKE PHENOMENON

You've watched others, and now it's your turn to become a singing sensation. JBL helps you to sing your best with the introduction of the KHM10 karaoke monitor, designed to highlight your vocals as you sing along to your favorite

popular tunes. Conventional loudspeakers are designed to treat all musical tracks equally, and many modern speakers are intended for use as part of a home theater. But when used with a compatible playback system, the KHM10 is

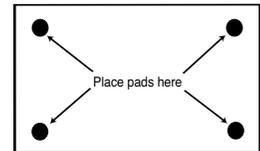
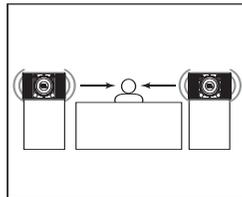
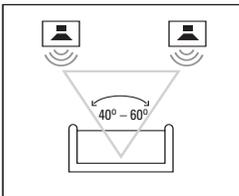
designed to make even beginning singers sound great. Set up two KHM10 speakers for stereo imaging, and let the karaoke party begin!

## SPEAKER PLACEMENT

In all cases, it is important to place the speaker with safety in mind. Always place the KHM10 on a sturdy shelf or credenza, making sure that no part of the speaker extends past the edge of the surface. The speaker should be placed out of reach of young children and pets who might topple it, resulting in serious personal

injury. All wires should be placed where they will not present a tripping hazard. If that is not possible, cover the wires completely and securely with duct tape. Place the speaker so that the tweeters (located in the upper portion of the two side panels) are at approximately ear height and aimed at the lis-

tening position. When two speakers are used, place them equidistant from the main listening position. The KHM10 monitor is video-shielded and can safely be placed near a television. The supplied self-adhesive rubber pads may be attached to the bottom corners of the speaker to protect your furniture.



### WALL AND CEILING MOUNTING

The KHM10 monitor may be mounted on a ceiling or wall using appropriate after-market brackets. *It is solely the customer's responsibility to select proper hardware and to safely install the loudspeaker. If you are*

*uncertain of your ability to safely mount the loudspeaker on a ceiling or wall, contact a professional custom installer for assistance.* The brackets should be capable of supporting a minimum weight of 20kg (44 lb), and should be compatible with the two 5/16"-18 threaded inserts

on the top of each KHM10 speaker. Each screw should be 30mm (1-3/16") long. Note that the two threaded inserts are 101mm (4") apart. When mounting the KHM10 speaker from the ceiling, the bracket should be installed in a wood joist. Drywall alone is not strong enough to support the

speaker, and may result in the speaker falling and seriously injuring someone. Likewise, when mounting the KHM10 speaker on a wall, the bracket should be installed in a wood

stud to prevent falling. If the KHM10 speaker is being mounted on a brick or concrete wall, it is recommended that expansion anchor bolts be used. The KHM10 loudspeaker is not

weather-resistant and should not be installed outdoors or in a moist area such as near a pool or hot tub.

## SPEAKER CONNECTIONS

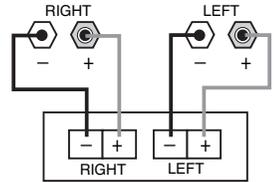
### CONNECTION TIPS



Speakers and electronics have corresponding positive (+) and negative (-) terminals. It is important to connect both speakers identically: positive (+) on the speaker to positive (+) on the amplifier and negative (-) on the speaker to negative (-) on the amplifier. Wiring "out of phase" results in thin sound, weak bass and a poor stereo image when two speakers are used. To use the binding-post speaker terminals, unscrew the colored collar until the pass-through hole in the

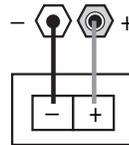
center post is visible under the collar. Insert the bare end of the wire through this hole; then screw the collar down until the connection is tight. The hole in the center of each collar is intended for use with banana-type connectors. To comply with European CE certification, these holes are blocked with plastic inserts at the point of manufacture. To use banana-type connectors requires the removal of the inserts. Do not remove these inserts if you are using the product in an area covered by the European CE certification.

### When Two KHM10's Are Used



Receiver or Amplifier Speaker Outputs

### When One KHM10 Is Used



Receiver or Amplifier Speaker Outputs

## TRIM CONTROLS

The KHM10 karaoke monitor is equipped with left and right high-frequency trim controls that control the tweeters in the left and right side panels of each KHM10 speaker. The trim controls enable you to

compensate for various room conditions and vocal styles. Begin by turning the knobs in the center of each control as far counterclockwise as they will go. This is the normal level of the associated high-

frequency driver. Turning the knob clockwise decreases the knob's level. Adjust the trim controls so that the vocals are loud enough to be intelligible without being so loud as to be harsh or distorted.

## TROUBLESHOOTING

### If there is no sound from any of the speakers:

- Check that receiver/amplifier is on and that a source is playing.
- Review proper operation of your receiver/amplifier.

### If there is no sound coming from one speaker:

- Check the "Balance" control on your receiver/amplifier.
- Check all wires and connections between receiver/ampli-

fier and speakers. Make sure no wires are touching other wires or terminals and creating a short circuit.

- Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.
- Turn off all electronics and switch the speaker in question with one of the other speakers that is working correctly. Turn everything back on and determine whether the

problem has followed the speaker, or has remained in the same channel. If the problem is in the same channel, the source of the problem is most likely with your receiver/amplifier, and you should consult the owner's manual for that product for further information. If the problem has followed the speaker, consult your dealer for further assistance or, if that is not possible, visit [www.jbl.com](http://www.jbl.com) for further information.

**If the system plays at low volumes but shuts off as volume is increased:**

- Check all wires and connections between receiver/amplifier and speakers.
- Make sure all wires are connected. Make sure none of

the speaker wires are frayed, cut or punctured.

- If more than one pair of main speakers is being used, check the minimum impedance requirements of your receiver/amplifier.

**If there is no (or low) bass output:**

- Make sure the polarities (+ and -) of the left and right "Speaker Inputs" are connected properly.
- Consider adding a powered subwoofer to your system.

## SPECIFICATIONS

### Description

**Maximum Recommended Amplifier Power\*\***

**Power Handling (Continuous/Peak)**

**Nominal Impedance**

**Sensitivity (2.83V/1m)**

**Frequency Response (-3dB)**

**Crossover Frequency**

**High-Frequency Transducers**

**Low-Frequency Transducer**

**Baffle**

**Ports**

**Network**

**Terminals**

**Dimensions (H x W x D)**

**Weight per Speaker**

## KHM10

3-Speaker, 2-way 250mm (10") karaoke monitor

175W

50W/400W

8 Ohms

92dB

40Hz - 20kHz

1,700Hz

Dual 75mm (3") cones with high-temperature voice coil

250mm (10") Cone with high-temperature voice coil, shielded

Low diffraction, IsoPower™

Dual FreeFlow™ flared

Straight-Line Signal Path™ (SSP™) with left and right high-frequency trim controls

Gold-plated, 5-way binding posts

330mm x 533mm x 241mm (13" x 21" x 9-1/2")

12.7kg/28 lb

**STEAL THE SHOW  
GO PRO**

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\*\* The maximum recommended amplifier power rating will ensure proper system headroom to allow for occasional peaks. We do not recommend sustained operation at these maximum power levels.

All features and specifications are subject to change without notice.  
All dimensions include grilles.