

SAFETY INSTRUCTIONS



PLEASE READ THIS MANUAL FIRST



Thank you for buying β_3 product. Read this manual first as it will help you operate the system properly. Please keep this manual for future reference.

⚠ WARNING: This product must be installed by professionals. When using hanging brackets or rigging other than those supplied with the product, please ensure they comply with the local safety codes.

⚠ WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

⚠ WARNING: To reduce the risk of electric shock, only qualified professionals can remove the cover of this system

	CAUTION RISK OF ELECTRICAL SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.		

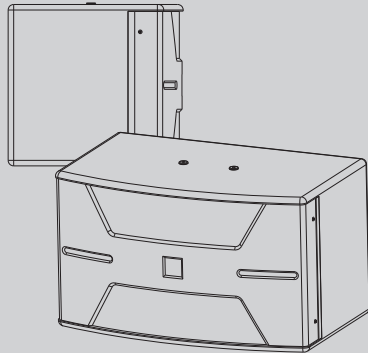
	AVIS RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR	
ATTENTION : POUR RÉDUIRE LE RISQUE DE DÉCHARGE ÉLECTRIQUE, NE RETIREZ PAS LE COUVERCLE (OU L'ARRIÈRE), IL NE SE TROUVE À L'INTÉRIEUR AUCUNE PIÈCE POUVANT ÊTRE RÉPARÉE PAR L'USAGER. S'ADRESSER À UN RÉPARATEUR COMPÉTENT.		



The lightning flash & arrowhead symbol within an equilateral triangle is intended to alert you that this part is not dielectric, and may cause the hazard of electric shock



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and servicing instructions.



Beta Three

KO-10H

10" Built-in Three-way Full Range Speaker

User Manual



UM-KO-10H-20180621 Ver A

KO-10H

10" Built-in Three-way Full Range Speaker

Features

- 4 x 3" paper cone driver
- 1 x 10" powerful woofer
- Dispersion: 125° x 110° Crossover point at 1kHz
- Frequency Response (-3dB): 45Hz-18kHz
- Sensitivity: 90dB, Max SPL: 119dB
- Rated Power: 100W, Peak Power: 400W
- 2 x M8 rigging point

Description

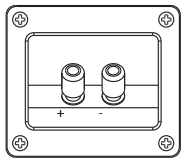
KO-10H is a three-way full range professional karaoke speaker. It consists of 1pc powerful 10" woofer and 4pcs paper cone driver. With high SPL and sensitivity. The sound is clear and powerful.

Applications

- Medium conference room
- Multi-Function room
- Performance venue

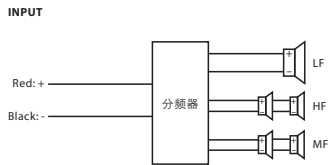
NL4 Connection

1:Connector

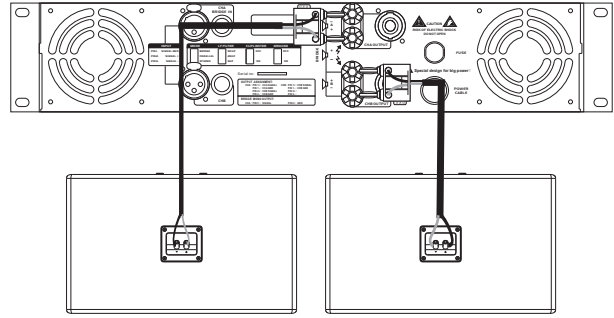


Red: + Black: -

2:Connection Diagrams



System Connection Reference



- ⚠ **Attention:** The impedance of connected speaker must match the impedance of amplifier output.
- ⚠ **Attention:** Make sure the polarity of speaker and amplifier correctly.

Technical Specification

System:	Passive full range speaker with PVC covering
Tweeter:	4x3" paper cone driver
Woofer:	1 x 10" LF transducer
Frequency response(-3dB):	45Hz-18kHz
Frequency response(-10dB):	38Hz-19kHz
Sensitivity(1W@1m):	90dB
Max. SPL(1m):	113dB/119dB(PEAK)
Power:	100W (RMS) ⁴ 200W (MUSIC) 400W (PEAK)
Dispersion (H×V):	125°×110°
Rated impedance:	8 Ohms
Crossover point:	2.8kHz
Construction:	Medium density fiberboard + Chipboard
Installation:	2xM8 hanging point
Painting:	Black PVC leather covering Black grille
Connector:	1 x terminal plate
Cabinet dimension:	498 × 317 × 292mm (W×D×H) (19.6 × 12.5 × 11.5in)
Package dimension:	740 × 390 × 630mm (W×D×H) (29.1 × 15.4 × 24.8in)
Net weight(pc):	12.4kg(27.3 lb)
Gross weight(pair):	28.0kg(61.6 lb)

Speaker Testing Method

1. Frequency Response

Use Pink noise to test the speaker in the anechoic chamber, adjust the level to make the speaker work at its rated impedance and set the output power at 1W, then test the frequency response 1m away from the speaker.

2. Sensitivity

Use full range Pink noise which has been modified using an EQ curve to test the speaker in the anechoic chamber, increasing the signal to make the speaker work at its rated impedance and set the power output at 1W, then test the sensitivity 1m away from the speaker.

3. MAX.SPL

Use full range Pink noise which has been modified using an EQ curve to test the speaker in the anechoic chamber, increase the signal to make the speaker work at its maximum power output level, then test the SPL 1m away from the speaker.

4. Rated Power

Use Pink noise to the IEC#268-5 standard to test the speaker, increase the signal for a continuous period of 100 hours, the rated power is the power when the speaker will show no visible or measurable damage.

Frequency response curve & Impedance curve

