



HMC 660
HMD 660
Headset Microphone

User Guide

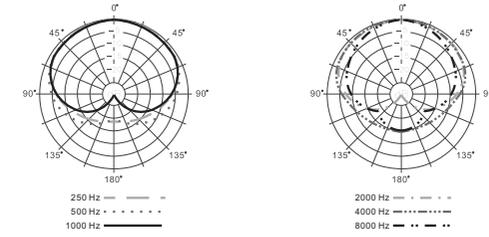
Specifications

Headphone	
Type	Element
Dynamic	Closed
Frequency response	Rated impedance
20 to 20,000 Hz	150Ω

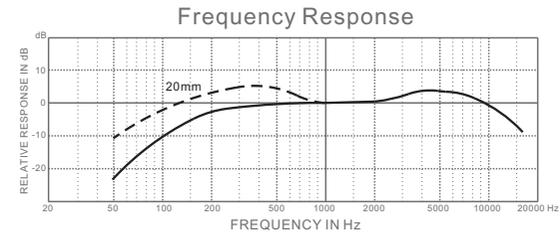
Rated sonic pressure level	Total harmonic distortion
94dB	≥ 0.2%
Power capacity	Rated wearing pressure
100 mW	3.5 N

HMC660 Mic	
Type	Sensitivity
Condenser	(at 1,000 Hz Open Circuit Voltage)
	-40dBV/Pa (10.0mV/Pa) ±3dB
Polar pattern	Max. SPL (1 kΩ load)
Super Cardioid (Figure 3)	136dB SPL (THD ≤ 1% 1kHz)
Frequency response	Equivalent noise level
50 to 15,000 Hz (Figure 4)	(A-weighted)
Rated impedance	24dB (IEC/DIN 651)
200Ω	Mic. Head Dimensions
Dynamic range (1 kΩ Load)	φ 20mm x 15mm(0.79"x0.59")
112dB	

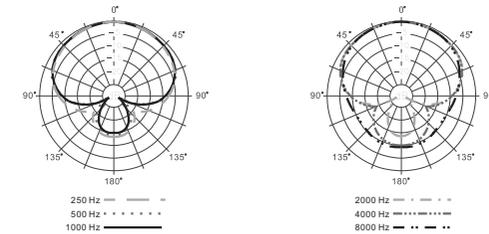
HMD660 Mic	
Type	Sensitivity
Dynamic	(at 1,000 Hz Open Circuit Voltage)
	-60dBV/Pa (1.0mV/Pa) ±3dB
Polar pattern	Max. SPL (1 kΩ load)
Cardioid (Figure 1)	136dB SPL (THD ≤ 1% 1kHz)
Frequency response	Mic. Head Dimensions
150 to 10,000 Hz (Figure 2)	φ 16mm x 12mm(0.63"x0.47")
Rated impedance	
250Ω	



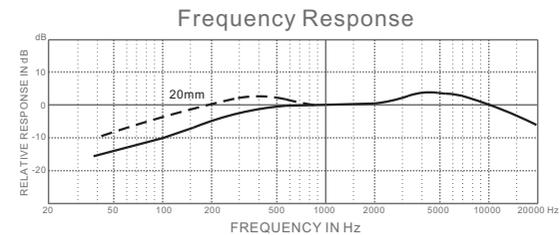
TYPICAL POLAR PATTERN (Figure 1)



TYPICAL FREQUENCY RESPONSE (Figure2)



TYPICAL POLAR PATTERN (Figure 3)



TYPICAL FREQUENCY RESPONSE (Figure4)



HMC660



HMD660

Description

The HMC660/HMD660 series of stereo headset are designed for the professionals that demand high quality monitoring and communication. Precision acoustic design integrating drivers, ear padding, and head bend and incorporating professional condenser/dynamic microphones for balanced tone, high dynamic range for both listening and talking.

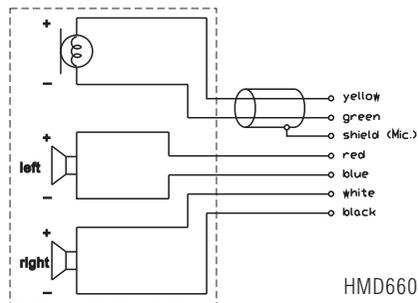
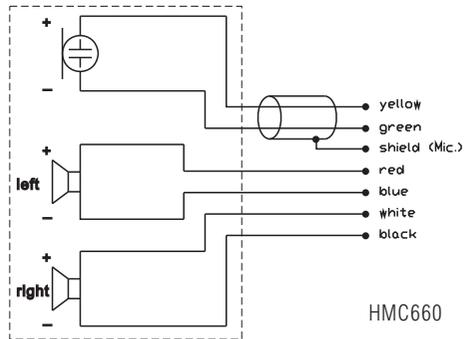
Suitable for live broadcasting, DJ, desktop video conference, on-line game, and multi-media application. The C in the HMC indicates a condenser microphone in use. And the D in the HMD indicates a dynamic microphone in use.

Features

- ✎ Studio grade headphones.
- ✎ Pro-audio microphones.
- ✎ Detent wearing adjustment mechanism.
- ✎ Uni-directional microphones, high SPL capable, low distortion and low noise.
- ✎ Gooseneck bending, easy positioning adjustment.
- ✎ Wind screen recommended for outdoor.

Model	Cable type	Headphone plug	Microphone plug
HMC660 HMD660	Spring coil cable/3M	Open end	Open end
HMC660X HMD660X	Straight cable/1.5M	3.5mm stereo plug with 6.3mm adapter	XLR3M
HMC660E HMD660E	Straight cable/1.5M	3.5mm stereo plug with 6.3mm adapter	3.5mm stereo plug wired with mono signal

Wiring diagram



Supplied accessories

660X + 660E ----- 6.3mm adapter
Wind screen ----- S11

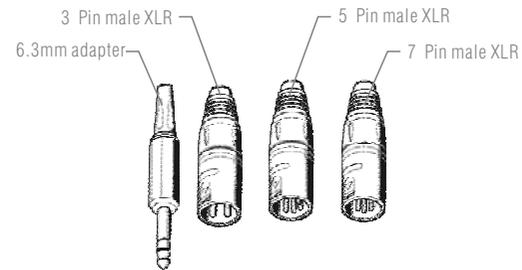


6.3mm
Adapter



S11
Wind screen

Related accessories



Knowing your microphone

Superlux provides variety selection of microphones for professionals and amateurs. To know your microphone is the first step to successful result.

Type of transducer



Condenser

Extremely light weight diaphragm, very sensitive to sound. Very small versions available for hiding applications. High performance condenser microphones are regarded as standard equipment of recording studios for extreme detail capturing. Operates with power, such as phantom or battery.



Dynamics

Durable and simple structure, operates in all kinds of environments. A good dynamic microphone is capable to operate at very high sound pressure level without distortion. Due to structure limit, dynamics cannot be built as small as condenser, but dynamics doesn't require power to operate.

Distance to source

Close miking or distant miking sound very differently. Vocal recording or live performance practice close miking mostly. Suitable proximity effect is one desired target, and lower feedback problem is another factor for live sound application.

While distant miking is common practice for recording, especially stereo pair recording with large group of performers, such as orchestra or choir.

Distant miking generally picks up less bass section with pressure gradient type of microphone (cardioid, figure-8, shotgun...) due to acoustic nature and lack of proximity effects.

Rich bass with distant miking can be recorded with pressure type of microphone (Omni), which performs the same frequency response with close or distant pick-up.

Using a headphone microphone

- ▶ Avoid violent shock or drop to prevent damaging to the precision vibrating system in the headphones.
- ▶ Do not over bending or cable warping that may cause contact problem for long term use.
- ▶ To protect your hearing, do not expose to long term high sound pressure level, keep the volume down especially wearing the headphones.
- ▶ Do not use the headphones when driving a vehicle or under similar safety consideration. Unless the headphones/headsets were used for communication.

GF
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