

Product Specifications

SM31FH Fitness Headset Condenser Microphone

Overview

The new SM31FH adds hydrophobic materials to the industry-standard, road-tested Shure SM family in a rugged and durable cardioid condenser microphone. TA4F 4-pin connectors make it a viable replacement for any existing Shure wireless headset system, and is also available with BLX and GLX-D wireless system bundles. The moisture-repelling cartridge housing protects the microphone and ensures a long lifetime of use, all but eliminating the need to frequently replace typical headsets.

Features

- Wearable wireframe headset with secure, comfortable fit made for fitness and aerobics instructors
- Integrated moisture-repelling hydrophobic fabric protects the microphone element from harmful corrosion for use in humid environments
- Flexible gooseneck design provides discrete adjustment options to optimize placement for greatest isolation
- Lightweight and low-profile form factors stave off fatigue during high-impact use
- Compatible with Shure wireless bodypack systems for direct replacement of TA4F-connected microphones
- Available with a wide variety of Shure wireless systems, renowned for their ease of use and reliable performance
- Included windscreen tames plosive, breath and wind noise for clean and intelligible sound
- Tailored frequency response refined for crisp and clear vocal reproduction
- Legendary Shure precision engineering for durability and performance



SM31FH

Available Models

SM31FH-TQG	Fitness Headset Cardioid Condenser Microphone with Windscreen
BLX1288/SM31	BLX Dual-Channel Wireless Combo System
BLX14/SM31	BLX Wireless Headset System
BLX188/SM31	BLX Dual-Channel Wireless Headset System
BLX14R/SM31	BLX Rack-Mounted Wireless Headset System
GLXD14/SM31	GLX-D Digital Wireless Headset System

Specifications

Type	Electret Condenser
Frequency Response	45 to 20,000 Hz
Polar Pattern	Unidirectional (Cardioid)
Output Impedance	600 Ω
@ 1 kHz	
Audio Output Level	-50 dBV/Pa
Signal-To-Noise Ratio ⁽¹⁾	66 dB
@ 1 kHz	
Maximum SPL ⁽¹⁾	145.0 dB
1000 Ω load, @ 3% THD	
Dynamic Range ⁽¹⁾	117.0 dB
@ 1 kHz, 1000 Ω load	
Equivalent Output Noise ⁽¹⁾	28 dB
Typical, A-Weighted	
Power Requirements	+5 V DC (nominal), 10 V maximum (DC bias)
Polarity	Positive pressure on diaphragm produces positive voltage on pin 3 with respect to pin 1
Cable	1.1 m (45 in.)
Connector	TA4F
Net Weight	60 g (2.11 oz.)

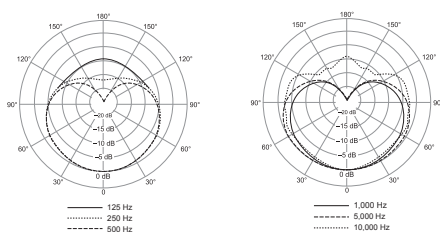
⁽¹⁾Measurements taken using RK100PK preamp set @ 0 dB using 8k bias resistor.

* All specifications measured with a 48 VDC phantom power supply. The microphone operates at lower voltages, but with slightly decreased headroom and sensitivity.

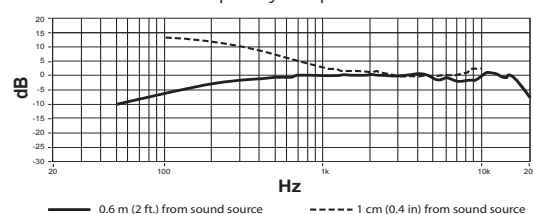
Optional Accessories

RK379	Replacement kit with clip + 2 foam windscreens
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Polar Patterns



Frequency Response



SHURE
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