

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

Note: Not all SM31FH wireless system configurations are available in all regions. Please inquire with your Shure sales representative for more information.

Specifications

Type	Electret Condenser
Frequency Response	45 to 20,000 Hz
Polar Pattern	Unidirectional (Cardioid)
Output Impedance @ 1 kHz	600 Ω
Audio Output Level	-50 dBV/Pa
Signal-To-Noise Ratio ¹¹ @ 1 kHz	66 dB
Maximum SPL ¹¹ 1000 Ω load, @ 3% THD	145.0 dB
Dynamic Range ¹¹ @ 1 kHz, 1000 Ω load	117.0 dB
Equivalent Output Noise ¹¹ Typical, A-Weighted	28 dB
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.)

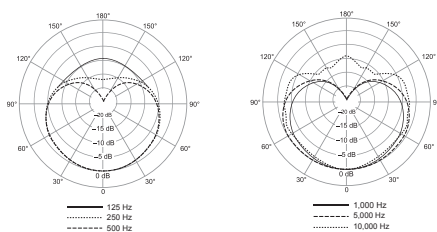
¹¹Measurements taken using RK100PK preamp set @ 0 dB using 8k bias resistor.

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

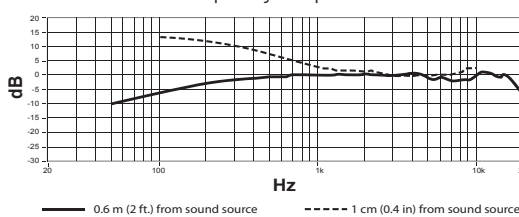
Optional Accessories

RK379	Replacement kit with clip + 2 foam windscreens
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Polar Patterns



Frequency Response



SHURE[®]

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