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-pole 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 intelligble sound
- Tailored frequency response refined for crisp and clear vocal reproduction
- Legendary Shure precision engineering for durability and performance

Available Models

SM31FH-TQG	Fitness Headset Cardioid Condenser Microphone with Windscreen
BLX14/SM31	BLX Wireless Headset System
BLX14R/SM31	BLX Wireless Half-Rack Headset System

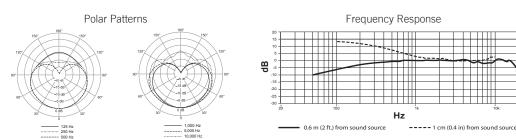
Specifications

Туре	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 ^[1] @ 1 kHz	66 dB	
Maximum SPL ^[1] 1000 Ω load, @ 3% THD	145.0 dB	
Dynamic Range ^[1] @ 1 kHz, 1000 Ω load	117.0 dB	
Equivalent Output Noise ^[1] 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





PERFORMANCE™



SM31FH