

GRAS 45CC

Headphone Test Fixture

45CC is a flexible platform for dual-channel testing of headphones and headsets. It is available in a variety of configurations: IEC 60318-1 or IEC 60318-4 ear simulators; baseplates, artificial ear simulators or human-like pinnae; and all are IEEE 1451.4 TEDS v. 1.0 compliant. An optional ITU-T P.51 mouth simulator extends testing to headsets. It can be adjusted very precisely to support different headphone/headset designs and sizes for high accuracy and repeatability. It is well suited for research and development, quality control and production line testing.



45CC Configuration

- 45CC-1** Headphone Test Fixture with Externally Polarized ½" Microphones
- 45CC-2** Headphone Test Fixture with Prepolarized ½" Microphones
- 45CC-3** Headphone Test Fixture with IEC 60318-1 Ear Simulators and Ext. Polarized ½" Microphones
- 45CC-4** Headphone Test Fixture with IEC 60318-1 Ear Simulators and Prepolarized ½" Microphones
- 45CC-9** Headphone Test Fixture with Externally Polarized ¼" Microphones
- 45CC-10** Headphone Test Fixture with Prepolarized ¼" Microphones
- 45CC-14** Test Fixture with IEC 60318-4 Ear Simulators, Anthropometric Pinnae and Ext. Polarized Microphones
- 45CC-15** Test Fixture with IEC 60318-4 Ear Simulators, Anthropometric Pinnae and Prepolarized Microphones
- 45CC-16** Test Fixture with High-frequency Ear Simulators, Anthropometric Pinnae and Ext. Polarized Microphones
- 45CC-17** Test Fixture with High-frequency Ear Simulators, Anthropometric Pinnae and Prepolarized Microphones
- 45CC-18** Test Fixture with High-resolution Ear Simulators, Anthropometric Pinnae and Ext. Polarized Microphones
- 45CC-19** Test Fixture with High-resolution Ear Simulators, Anthropometric Pinnae and Prepolarized Microphones

Specifications	4CC	
IEC 61094-4 ½" WS2P Microphones in the Ear Plate Plane (45CC-1 - -4)	Microphone Assembly 69CC-1	Microphone Assembly 69CC-2
Frequency response	3.15 Hz – 20 kHz	
Dynamic range	25 dB(A) – 164 dB	25 dB(A) – 150 dB
IEC 61094-4 ¼" WS3P Microphones in the Ear Plate Plane (45CC-9 and -10)	Microphone Assembly 69CC-3	Microphone Assembly 69CC-4
Frequency response	4 Hz – 70 kHz	
Dynamic range	39 dB(A) – 169 dB	44 dB(A) – 166 dB
IEC 60318-4 WS2P Microphones with Human-like Pinnae (45CC-14 and -15)	Microphone Assembly 69CC-5	Microphone Assembly 69CC-6
Frequency response	100 Hz – 10 kHz	
Dynamic range	25 dB(A) – 164 dB	25 dB(A) – 150 dB
IEC 60318-4 WS2P Microphones with Human-like Pinnae (45CC-16 and -17)	Microphone Assembly 69CC-7	Microphone Assembly 69CC-8
Frequency response	100 Hz – 20 kHz	
Dynamic range	25 dB(A) – 164 dB	25 dB(A) – 150 dB
IEC 60318-4 WS2P Microphones with Human-like Pinnae (45CC-18 and -19)	Microphone Assembly 69CC-7	Microphone Assembly 69CC-8
Frequency response	100 Hz – 50 kHz	
Dynamic range	44 dB(A) – 169 dB	44 dB(A) – 166 dB
Dimensions and weight		
Width between ears adjustable from	130 to 170 mm	
Height of headband holder adjustable	from 75 to 135 mm	
Horizontal position of headband holder	Adjustable, ± 5 mm	
Ear plate angle	4.5° (ISO 4869-3)	
Weight	3 kg	

For specifications for the 44AA Mouth Simulator, see page 71

