



CRY3603

High-frequency Mouth Simulator

Features

- **Key Specifications**

Maximum Continuous Output SPL (25mmMRP)	500Hz to 40 kHz: 110dB
THD (25mmMRP)	200 Hz to 50 kHz: 100dB 1 kHz to 40 kHz: <1.5%, Typical: <1.0%

- **Applications**

High-frequency source for acoustic measurements

- **Standards**

- IEEE 269 Standard for Measuring Electroacoustic Performance of Communication Devices
- IEEE 661 Standard Method for Determining Objective Loudness Ratings of Telephone Connections
- ITU-T Rec. P.51 Mouth Simulator for Accurate and Repeatable Electroacoustic Measurements

Introduction

The CRY3603 mouth simulator is used to simulate the high-frequency acoustic environment of the human mouth, providing an accurate re-creation of the sound field for measuring audio devices. With a frequency response up to 40 kHz, the CRY3603 is highly suitable for testing high-frequency acoustic parameter indices of transducers and other acquisition devices, meeting the requirements for high-frequency acquisition testing.

Highlights

- **Use of High-frequency Mouth Simulator**

High frequency Mouth simulator can accurately generate high frequency sound signal, which plays an important role in the research scene with special requirements for high frequency sound. For example, in the field of acoustic testing, it can effectively detect the response ability of microphones, headphones, speakers and other equipment to high-frequency sound, which brings convenience to acoustic research and the performance detection of audio equipment.

- **Compatibility**

The CRY3603 mouth simulator is equipped with a standard BNC interface and is compatible with various electroacoustic analysis instruments. This characteristic ensures the wide applicability and great convenience of the mouth simulator in various testing scenarios.

- **Calibration**

All CRY SOUND mouth simulators are calibrated at the factory using traceable calibration equipment. CRY SOUND recommends recalibration at least once a year.

- **Quality & Warranty**

The CRY3603 mouth simulator features a metal casing to provide exceptional durability and stable performance. This product undergoes a three-month comprehensive environmental testing cycle ensuring long-term reliability and stability.

CRY SOUND mouth simulators are supported by a 10-year warranty—offering one of the best service guarantees in the world.

Technical Specifications

Specifications

Maximum Continuous Output SPL (25mmMRP)	500Hz to 40 kHz: 110dB 200 Hz to 50 kHz: 100dB
THD (94dB, 25 mmMRP)	1 kHz to 40 kHz: <1.5%, Typical: <1.0%
Output Sound Pressure (After compensation)	94dB ±1 dB (500Hz to 40 kHz)
Impedance	4Ω
Continuous Max Power	100W
Instantaneous Max Power	500w(1s)
Weight	1.45kg
Connector	BNC

MRP: Mouth Reference Point

Dimensions

Mouth Opening Diameter	∅ 20 mm
Diameter of Lip Ring	∅ 100 mm
Height of Lip Ring	28 mm
Diameter	∅ 116 mm
Height	80 mm

Drawings(mm)[inch]

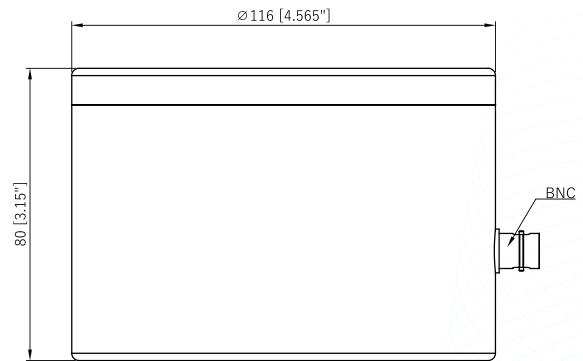


Fig.1 CRY3603 Mouth Simulator Drawings

Frequency Response

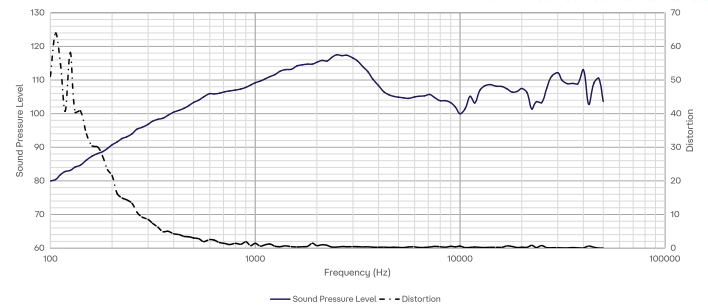


Fig.2 CRY3603 Mouth Simulator Frequency Response

Ordering Information

Consisting of

Mouth Simulator	CRY3603 High-frequency Mouth Simulator
Cable	BL5001 BNC to BNC Cable /1.6m

Optional Accessories

Electroacoustic Analyzer	CRY6151B Electroacoustic Analyzer
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Related Products

CRY3602	Mouth Simulator with built-in 20W power amplifier
CRY3605	Low Distortion Mouth Simulator
CRY3611	CRY3611 Reference sound source

