



CRY3605

Low-distortion Mouth Simulator

Features

- **Key Specifications**

Maximum Continuous Output SPL (25mmMRP)	110dB (200 Hz to 10 kHz)
THD (25mmMRP)	100dB (100Hz to 10 kHz)
	<0.8%, Typical: <0.5% (200 Hz to 10 kHz)

- **Applications**

Sound source for acoustic measurements
Acoustic parameter measurement of microphone

- **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 CRY3605 mouth simulator is designed to simulate the acoustic environment of the human mouth, providing an accurate re-creation of the sound field for measuring audio devices.

The CRY3605 mouth simulator features low distortion and a 10k Hz frequency response making it ideal for testing high quality telecommunications headsets and microphones.

Highlights

- **Use of Low-distortion Mouth Simulator**

The low-distortion simulation mouth can more accurately simulate the voice of the human mouth, and the sound signal generated is closer to the real situation, so as to provide a more accurate reference sound source for the test of acoustic equipment such as microphone and telephone transmitter, ensure the reliability and effectiveness of the test results.

- **Compatibility**

The CRY3605 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 CRY3605 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) 110dB (200 Hz to 10 kHz)
100dB (100Hz to 10 kHz)

THD (94dB, 25 mmMRP) <0.8%, Typical: <0.5% (200 Hz to 10 kHz)

Output Sound Pressure (After compensation) 94dB \pm 1 dB (100Hz to 10 kHz)

Impedance 4 Ω

Continuous Max Power 20W

Instantaneous Max Power 100w(1s)

weight 1.32kg

Connector BNC

MRP: Mouth Reference Point

Frequency Response (0.1V Input)

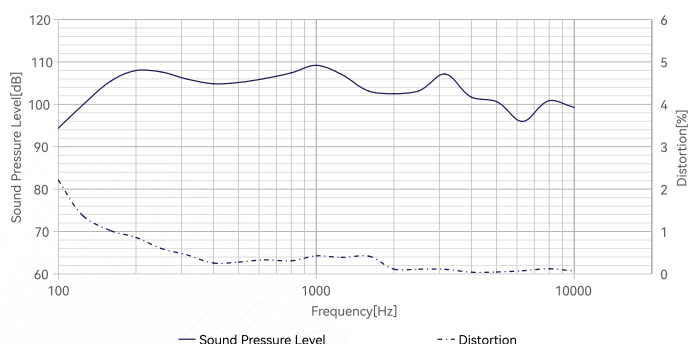


Fig.1 CRY3605 Mouth Simulator Set Typical Frequency Response and Distortion at 0.1V (which is amplified to 1V)

Frequency Response (At 94dB After Compensation)

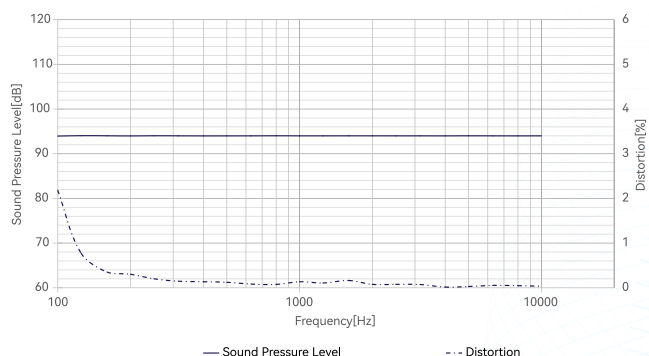


Fig.2 CRY3605 Mouth Simulator Set Typical Frequency Response and Distortion at 94dB after compensation

Dimensions

Mouth Opening Diameter \varnothing 20mm

Diameter of Lip Ring \varnothing 45mm

Height of Lip Ring 25mm

Diameter \varnothing 104mm

Height 94mm

Drawings(mm)[inch]

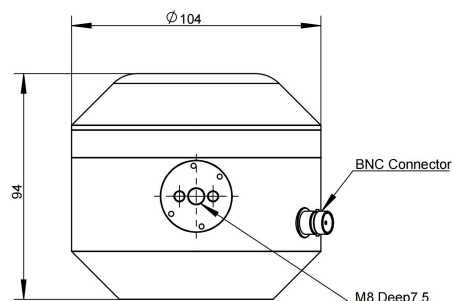


Fig.3 CRY3605 Mouth Simulator Drawings

Ordering Information

Consisting of

Mouth simulator CRY3605 Low Distortion Mouth Simulator

Cable BL5001 BNC to BNC Cable /1.6m

Optional Accessories

Electroacoustic Analyzer CRY6151B Electroacoustic Analyzer

Related Products

CRY3602 Mouth Simulator with built-in 20w power amplifier

CRY3603 Hifh-frequency Mouth Simulator

CRY3611 CRY3611 Reference sound source