CRY3605

Low-distortion Mouth Simulator

Features

- **Key Specifications**

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

- **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 P51 Artificial mouth

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 CRYSOUND mouth simulators are calibrated at the factory using traceable calibration equipment. CRYSOUND 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.

  CRYSOUND 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)	200 Hz to 10 kHz: 110dB 100Hz to 10 kHz: 100dB
THD (94dB, 25 mmMRP)	200 Hz to 10 kHz: <0.8%, Typical: <0.5%
Output Sound Pressure (After compensation)	94dB ±1 dB (100Hz to 10 kHz)
Impedance	4Ω
Continuous Max Power	20W
Instantaneous Max Power	100w(1s)
weight	1.32kg
Connector	BNC
MRP: Mouth Reference Point	

Frequency Response (0.1V Input)

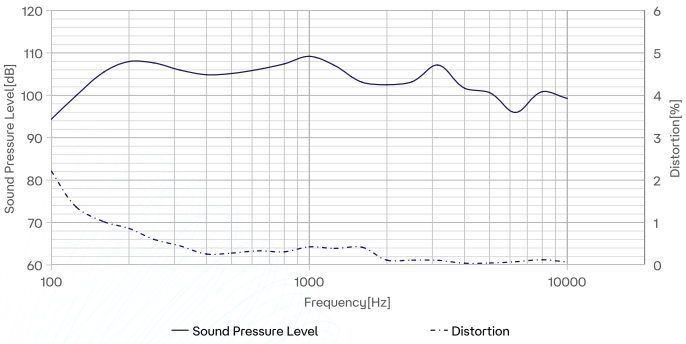

Fig.1 CRY3605 Mouth Simulator Set Typical Frequency Response and Distortion at 0.1V (which is amplified to 1V)

Frequency Response (At 94dB After Compensation)

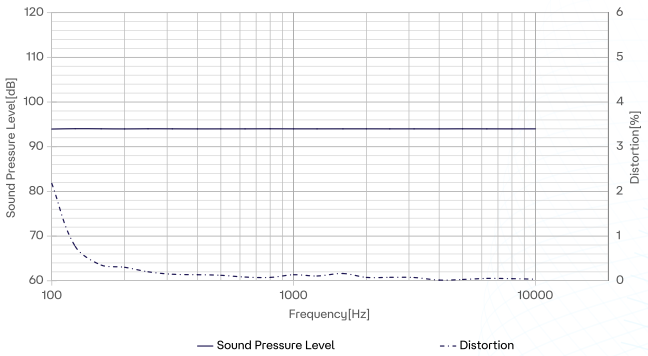

Fig.2 CRY3605 Mouth Simulator Set Typical Frequency Response and Distortion at 94dB after compensation

Dimensions

Mouth Opening Diameter	ø 20mm
Diameter of Lip Ring	ø 45mm
Height of Lip Ring	25mm
Diameter	ø 104mm
Height	94mm

Drawings(mm)[inch]

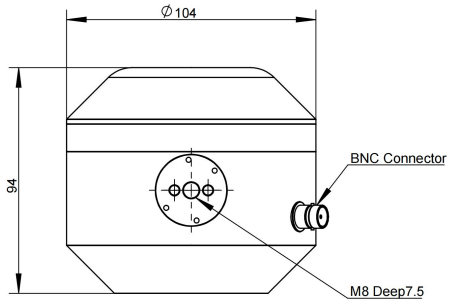

Fig.3 CRY3605 Mouth Simulator Drawings

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