



CRY3602

Mouth Simulator With Built-in 20W Power Amplifier

Features

- **Key Specifications**

Maximum Continuous Output SPL (25mmMRP)	110 dB (200 Hz to 10 kHz)
THD (25mmMRP)	100 dB (100 Hz to 10 kHz)
	<1.5%, Typical: <1.0% (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 CRY3602 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. With a frequency response up to 10k Hz, the CRY3602 is ideal for testing microphone and telecommunications headsets, ensuring that these devices meet acoustic performance standards.

Highlights

- **Use of Mouth Simulator Built-in 20W Power Amplifier**

The CRY3602 mouth simulator is equipped with a built-in 20W power amplifier that offers a gain of 20 dB. This feature allows for a direct connection to a signal generator, eliminating the need for an external amplifier—simplifying the test setup and reducing system cost.

- **Compatibility**

The CRY3602 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 CRY3602 mouth simulator features a metal casing design, ensuring its exceptional durability and stable performance. Prior to being released to the market, this mouth simulator undergoes a three-month stress relief testing to guarantee its long-term reliability and enduring performance.

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

Technical Specifications

Specifications

Maximum Continuous Output SPL (25mmMRP)	110 dB (200 Hz to 10 kHz) 100 dB (100 Hz to 10 kHz)
THD(94dB, 25 mmMRP)	<1.5%,Typical: <1.0% (200 Hz to 10 KHz)
Output Sound Pressure (After compensation)	94 dB \pm 1 dB (100Hz to 10kHz)
Built-in Power Amplifier Gain	20 dB
Built-in Power Amplifier Power	20 W
Maximum Input Signal	1 Vrms
Built-in Power Amplifier Power Supply	19 VDC
Connector	BNC
Weight	1.0 kg

MRP: Mouth Reference Point

Frequency Response (Input 0.1V, Amplified to 1V)

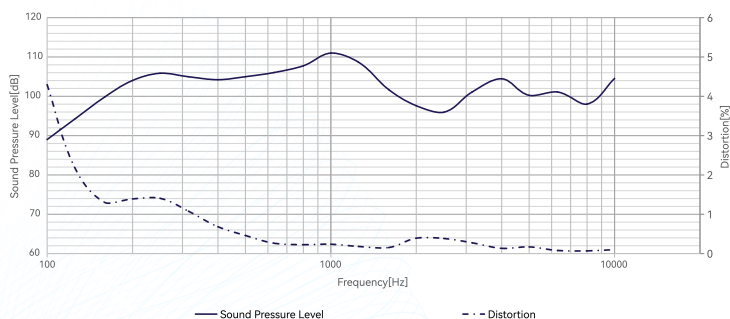


Fig.1 CRY605 Mouth Simulator Frequency Response and Distortion(25mm MRP)

Ordering Information

Consisting of

Mouth simulator	CRY3602 Mouth Simulator with built in 20W power amplifier
Cable	BL5001 BNC to BNC Cable /1.6m

Optional Accessories

Electroacoustic Analyzer	CRY6151B Electroacoustic Analyzer
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Frequency Response (At 94dB After Compensation)

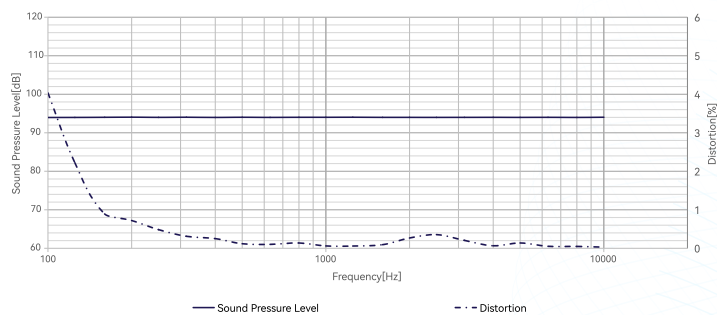


Fig.2 CRY3602 Mouth Simulator Set Typical Frequency Response and Distortion at 94dB after compensation

Dimensions

Mouth Opening Diameter	ø 20 mm
Diameter of Lip Ring	ø 51 mm
Height of Lip Ring	25 mm
Diameter	ø 99 mm
Height	90 mm

Drawings(mm)[inch]

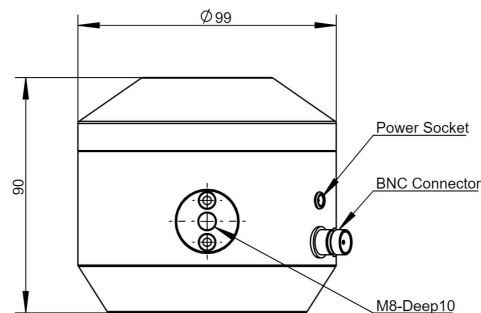


Fig.3 CRY3602 Mouth Simulator Drawings

Related Products

CRY3603	High-frequency Mouth Simulator
CRY3605	Low Distortion Mouth Simulator
CRY3611	Reference sound source