MicW ®
User's Manual

i437C
Professional Class 2 Microphone
www.micwaudio.com

CALIBRATION REPORT

Model No: i437C   Serial No.: _____

Description: 1/4" Free Field Digital Microphone

with Type-C Connector

Calibration Data

Sensitivity: _____ dBFS

NoiseLab Correction: _____ dB

Technician: _____ Date: _____
(yyyy/mm/dd)

TEST ENVIRONMENTAL CONDITIONS

Temperature: 25 ℃ Humidity: 65 % Pressure: 101.3 kPa

Notes:
1. The calibration of the reference microphone is traceable through the National Institute of Metrology (NIM).
2. Calibration is performed in compliance with ISO 9001:2008.
3. Measurement uncertainty (95% confidence level with a coverage factor of 2) for sensitivity is +/-0.30 dB.
4. Frequency response is measured using the comparison method per BSWA-Ⅲ-RD01-0013.
5. IEC61672-3 Class 2 compliances were tested with NoiseLab App by Scantek USA and NIM Lab.

1. INTRODUCTION

Welcome to the MicW i-Series of professional microphones. MicW has been producing high quality microphones for testing, measuring and studio recording for over 10 years. The unparalleled expertise in diaphragm technology has enabled MicW to offer professional products for audio applications.

2. SAFETY INSTRUCTION

The microphone is supplied with a pre-polarized capsule, which has been tested in extreme temperatures and humid environments for more than 24 hours. It is designed to operate from -20 ℃ to 50 ℃ and humidity up to 95%.

3. POWER SUPPLY

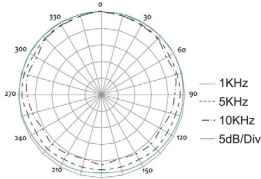The i437C does not require an additional battery for power.

4. APPLICATIONS

The i437C is designed for Apple iPad Pro with Type-C connector only. It can be used as an upgraded alternative microphone to the iPad Pro. The i437C microphone can capture high-quality sound, making it a great choice for vocals, instruments, musical performances, interviews, and meeting recordings.
The i437C is also calibrated and allows professional sound engineers to use it with the NoiseLab App from the Apple Store for real-time data analysis or as a sound level meter.

4.1 Noise Measurement Application
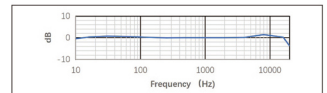4.2 Recording Application

5. DIRECTIONAL CHARACTERISTIC

The i437C is an omni-directional microphone.

— 1KHz
---- 5KHz
—·· 10KHz
— 5dB/Div

Polar Pattern

6. FREQUENCY REPONSE

Typical Frequency Response (0 dB @ 1000 Hz)

Frequency (Hz)	FRes (dB)	Frequency (Hz)	FRes (dB)	Frequency (Hz)	FRes (dB)
16	0.3	250	-0.1	4000	0.1
32	0.7	500	0.0	8000	1.4
64	0.5	1000	0.0	16000	0.2
125	0.2	2000	0.0	20000	-3.7

7. MICROPHONE INSTALLATION

Simply plug the i437C microphone into the Type C connector of iPad Pro (or other Apple products with Type-C connector).
Please note that i437C microphones DO NOT work with Android devices.

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i437C matched with NoiseLab software on iPad Pro.

8. WARRANTY POLICY

MicW Audio warrants that its products will be free from defects in materials and workmanship for one (1) year from the date of purchase by the original purchaser.

9. CE MARKING

The MicW i437C microphones conform with the relevant CE mark directives approved by the European Commission.

10. SPECIFICAITONS

Microphone i437C	
Type	Electret Condenser
Capsule Diameter	7.00mm(can be calibrated)
Principle of Operation	Pressure
Max SPL	125 dB
Polar Pattern	Omni-Directional
Sensitivity($\pm$3dB)	-27.5dBFS(94dB SPL@1kHz)
Frequency Response	20HZ~20kHz
S/N Ration	More than 62dB
Power Source	Plug and Play
Operating Temperature	-20℃ ~ 50℃
Weight	14.5g
Connector	Type C Connector

11. PACKING LIST

• The i437C includes
• i437C microphone
• Windscreen
• User manual

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MicW microphones
Product features and specifications are subject to change without notice

12. SOUND LEVEL METER APPLICATIONS

By pairing the i437C (or i437L) microphone with the NoiseLab App from Apple Store, the iPad Pro can be used as a professional sound level meter, and it has passed IEC 61672-3 Class 2 requirements.

Requirements:
• iPad Pro or higher
• iOS version 10.0 or higher
• i437C microphone
• NoiseLab App

STEP 1: Search for NoiseLab App in the Apple Store and install
STEP 2: Connect i437C to the iPad Pro and launch NoiseLab
STEP 3: Go to the Calibration Menu and change the Correction to match the number in the Calibration Report. Or use a sound level calibrator to do the calibration.

The compliance test to IEC 61672-3 may be performed by the authorized labs in your country at your own cost.