

MicW[®]

User's Manual



i437L

Professional Class 2 Microphone

www.micwaudio.com

CALIBRATION REPORT

Model No.: i437L Serial No.: _____

Description: 1/4" Free Field Digital Microphone
with Lightning Connector

Calibration Data

Sensitivity: _____ dBFS

NoiseLab Correction: _____ dB

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

CALIBRATION ENVIRONMENT CONDITIONS

Temperature: 25 °C Humidity: 65 % Pressure: 101.3 kPa

Notes:

1. The reference microphone for calibration is traceable from the National Institute of Metrology(NIM).
2. Calibration is performed in compliance with ISO 9001:2008.
3. The measurement uncertainty for sensitivity is $\pm 0.3\text{dB}$ (95% confidence level with a coverage factor of 2).
4. Frequency response is measured by a comparison method "BSWA- III -RD01-0013".
5. Sound level meter class 2 (IEC61672-3) compliance was certified with NoiseLab App by Scentek USA and NIM Lab.

1. INTRODUCTION

Welcome to the MicW i-Series professional microphones. MicW has been designing and manufacturing high quality microphones for testing, measuring and studio recording for over 10 years. The expertise in diaphragm technology allows MicW to provide professional products for audio applications.

2. SAFETY INSTRUCTION

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

3. POWER SUPPLY

The i437L does not require an additional battery power.

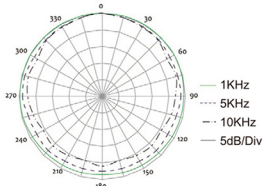


4. APPLICATIONS

The i437L is a high-quality alternative microphone for iPhone, iPad or iPod touch, which will significantly improve the recording quality for vocals, instruments, musical performances, interviews and meeting. The i437L can turn your iPhone, iPad or iPod touch into a real-time analyzer or Class 2 sound level meter when used with professional Apps.

5. DIRECTIVITY CHARACTERISTIC

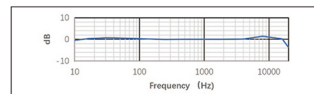
The i437L is an omni-directional microphone.



Polar Pattern

6. FREQUENCY RESPONSE

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 i437L into the lighting connector of iPhone, iPad, iPad mini, iPad Touch.



i437L matched with NoiseLab software on iPhone 7.

9. CE MARKING

The MicW i437L microphones conform with the relevant CE mark directives approved by the European Commission.



10. SPECIFICAIONS

Microphone i437L	
Type	Electret Condenser
Capsule Diameter	7.00mm(can be calibrated)
Principle of Operation	Pressure
Max SPL	125 dB
Polar Pattern	Omni-Directional
Sensitivity(± 3dB)	-27.5dBFS(94dB SPL@1kHz)
Frequency Response	20HZ~20kHz
SIN Ration	More than 62dB
Power Source	Plug and Play
Operating Temperature	-20 ℃ ~ 50 ℃
Weight	10g
Connector	Lightning Connector

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.

11. PACKING LIST

- i437L microphone
- Windscreen
- User manual

12. SOUND LEVEL METER APPLICATION

The system of i437L microphone and NoiseLab App on iOS device meet the requirement and pass the certification of IEC 61672-3 Class 2 sound level meter.



STEP 1: Search "NoiseLab" in App store on your IOS device and install the app.
STEP 2: Plug i437L into the iPhone, iPad or iPad Touch, then launch NoiseLab
STEP 3: Go to the Calibration menu and change the Correction according to the **CALIBRATION REPORT**. Or calibrate the system with a standard microphone calibrator.

Requirements:

- iOS version 10.0 or higher
- i437L microphone
- NoiseLab App



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