



XCA106 Sound Calibrator

IEC 60942-2017 Class 2



PREFACE

The XCA106 sound calibrator is used for calibrating sound level meters and other sound measurement equipment. It provides an output level of 94.0 dB at a frequency of 1 kHz. It is designed and tested according to IEC 60942-2017 standard. The accuracy has been calibrated to a reference traceable to the National Institute of Metrology (NIM), China.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Sound Pressure Level	94.0 dB
Frequency	1 kHz $\pm 1\%$
Compliance	IEC 60942-2017 Class 2
Power Supply	9V, 6F22/6LR61 square battery (Alkaline recommended)
Operating Temperature	-10°C to +50°C
Storage Temperature	20°C to +60°C
Humidity Range	10% to 90% RH (non-condensing)



PACKING LIST

NO	Item	Description
1	XCA106	Sound Calibrator
2	User Manual	Instructions for using the XCA106
3	Certificate of Calibration	Factory-calibrated certification
4	Standard Adapter	For 1/4" microphones calibration
5	Paper Packaging Box	Includes protective sponge



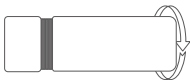
INSTALLING THE BATTERY

The XCA106 uses a 9V, 6F22/6LR61 square battery. We recommend that you use an alkaline battery to extend the running time of your calibrator.

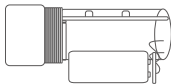
Follow these steps to install the battery:

- Turn the silver metal rear cover counterclockwise to remove it.
- Pull the battery connector clip out.
- Attach the clip to the battery terminals. Ensure the positive (+) and negative (-) terminals are correctly aligned.
- Place the battery into the compartment.
- Securely close the rear cover by turning it clockwise.

a.

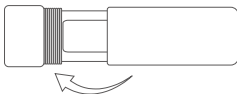


b.



Battery connection clip

c.





MICROPHONE CALIBRATION

The XCA106 generates a nominal sound pressure level of 94.0 dB at 1 kHz, with no need for frequency weighting corrections when used with sound level meters set to A, B, C, or Z (Flat) weighting.

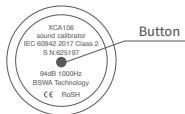
Follow these steps to calibrate the microphone:

- Insert the microphone: Place the microphone into the calibrator securely.
- Start calibration: Press the button on the bottom panel. The calibrator will operate for about 100 seconds.
- Insert the adaptor: For 1/4" microphone calibration.



Insert the microphone and fit snugly

a.



b.

When the battery power is low, the sound from the calibrator stops shortly after pressing the button.
The battery needs to be replaced.



Test Certificate

Complies with GB/T 15173-2010

Model	XCA106
Appearance	Passed
Battery	9V 6F22 / 6LR61
Serial Number	
Sound Pressure Level (dB)	
Frequency (Hz)	
THD (@1000HZ)(%)	

Test Environmental Conditions:

Temperature (°C)	
Humidity (%RH)	
Atmospheric Pressure (kPa)	
Tester	
Test Date	



WARRANTY

Warranty Coverage and Duration

1. The warranty period: 12 months from the date of purchase.
2. Free warranty for products that meet the warranty period and warranty scope.
3. The warranty is limited to the product failure caused by poor materials or manufacturing processes.
4. For maintenance services outside the warranty period or not within the scope of the warranty, the company will charge fees according to the standard.
5. The machine sent for repair must be packaged in the original packaging, or in a package with considerable protection, which is not covered by the warranty due to damage to the transportation package.

No Warranty

1. There is no warranty card or the contents of the warranty card have been altered.
2. Failure to maintain the device according to the user manual, resulting in damage to the parts.
3. The device is damaged by water or foreign objects.
4. Damage caused by improper use environment or force majeure.
5. Damage caused by non-maintenance by the company's technical engineers.

CONTACT

For inquiries, technical support, or warranty claims, please contact us:

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Email: neyue@neyue.com.cn

Website: www.micwaudio.com.cn



PRECAUTIONS

- ! **Do not expose the device to high temperatures** (e.g., direct sunlight, near heating). The operating temperature range is -10°C to +50°C and the storage temperature range is -20°C to +60°C. Exceeding this range may result in damage to the device or reduced performance.
- ! **Do not place the device in a humid environment** (e.g., near the bathroom, kitchen sink). The operating humidity range is 10% to 90% RH (non-condensing).
- ! **Avoid condensation:** In high-humidity environments, ensure that the device surface remains dry before use.
- ! **Handle with care:** Do not drop or hit the device to avoid damage to the internal precision components.
- ! **No disassembly:** Do not disassemble or repair the device by yourself. For repairs, please contact an authorized service center.

*The warranty does not cover products that are damaged due to negligent use, an incorrect power supply, or an incorrect connection to the equipment.

WARRANTY

Product model	
Purchaser's name	
Purchaser's address	
Date of purchase	
Purchaser phone	
Dealer name	
Dealer address	
Machine failure:	

*Please keep the warranty card in a safe place so that you can enjoy after-sales service