



# LUDRE TEST MEASUREMENT AND QUALITY CONTROL SOFTWARE

LUDRE YAZILIM

<https://www.ludre.com.tr/>

UPDATE: AUGUST 2022

## Ludre IEPE Acoustic Microphone 10 kHz

### 1.FEATURES

- Microphone Diameter : 1/2"
- Sensitivity: 20 mV/Pa (Nominal)
- Frequency ranges: 100 - 10 kHz
- Maximum Sound Pressure Level: 140 dB

### 2.DESCRPTIONS

- With IEPE Microphones, the sounds in the environment are introduced and a harmonic wave is created by taking this as a reference, and then when a different sound is detected from the environment, it is indicated in this software. In addition, it is possible to perform quality control with these microphones in many different areas. For example, breaks, abrasions and other corrosions in moving mechanical parts are easily detected.

### 3.APPLICATIONS

- Acoustic Quality Control
- Machine Fault Detection
- Sound Fault Detection
- Leak Detection
- Air Leakage Detection
- Sound Measurement
- dB Measurement
- Sound Harmonic Measurement
- Outlier Sound Measurement
- Sound RPM Measurement

Device Name	Dimensions
Ludre IEPE Acoustic Microphone 10 kHz	mm
	Length: 124 mm
	Diameter: 12.7 mm



Figure 1. IEPE Acoustic Microphone 10 kHz



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## 4.BNC INPUT



**Figure 2.** IEPE Microphone Input

## 5. IEPE MICROPHONE 10 kHz

### TECHNICAL SPECIFICATIONS

OS :Windows

Software Compatibility :LabVIEW

Feed :Power Supply

### DIGITAL INPUT/OUTPUT

Microphone Diameter : 1/2"

Sensitivity : 20 mV/Pa (Nominal)

Frequency ranges : 100 - 100 kHz

Maximum Sound Pressure Level : 140 dB

### PHYSICAL PROPERTIES

Length : 124mm

Diameter :12,7mm

I/O Connector :BNC



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## 6.IEPE MICROPHONE SETUP

We connect the input section with BNC cable between IEPE Microphone and IEPE Sensor Signal Conditioner then we make the 24V dc connection for the system to work. From the output part of the conditioner, we connect it to a software/screen where we can see the harmonic sound waves with a BNC cable. and the IEPE Microphone is ready to use.



**Figure 3.** IEPE Setup w/Signal Conditioner