

Nova Pro

Model 49 - Environmental Real-time Analyser

- Class 1 1/1, 1/3, 1/6 & 1/12 Octave Band Analysis
- STIPA - Speech Inteligibility
- Reverberation Time Measurement (RT 60)
- Environmental Parameters (LN Percitiles, LDEN, FFT)
- Measurement range of 24dB to 124dB (optional attenuator up to 145dB)
- Noise Curves (NR, NC, PNC, NCB, RC & RCII)
- Wifi & Bluetooth connectivity

The Nova Pro by Pulsar Instruments is a cutting-edge environmental noise analyser that offers a wide range of features and functions for measuring and analysing sound levels.

Key Features

• **1/1, 1/3, 1/6 & 1/12 Octave Band Analysis:** Full Octave Band Analysis. You can also compare the measured noise levels with various noise criteria and standards, such as NR, NC, PNC, NCB, RC & RCII.

• **STIPA - Speech Intelligibility:** This feature allows you to measure the clarity and intelligibility of speech in a given environment.

• **Reverberation Time Measurement (RT 60):** Measure the decay time of sound in a room or a hall, which is an important parameter for assessing the acoustic quality and suitability of a space for various purposes, such as music, speech, or education.

• **Environmental Parameters (LN , Leq, Percentiles, LDEN, FFT):** Allowing you to measure the statistical distribution and variation of noise levels over time,

such as the equivalent continuous sound level (Leq), the day-evening-night level (LDEN), and the fast Fourier transform (FFT).

• **Measurement range of 24dB to 124dB:** This feature allows you to measure a wide range of noise levels, from very quiet to very loud, without compromising the accuracy and precision of the instrument. You can also use an optional attenuator to extend the measurement range up to 145dB.

Connectivity: Wifi & Bluetooth connectivity enables you to wirelessly send your recordings to your computer.

High resolution capacitive touch TFT display: See more on the screen with this high resolution, touch sensitive TFT screen that allows for better viewing in outdoor environments.



Modules

The Pulsar Nova Pro offers the following modules:*

- SPL meter (A/C/Z, fast, slow, impulse, eq. continuous)
- Real-Time Analyzer (RTA) with 1/1, 1/3, 1/6 and 1/12 octave resolution
- Speech intelligibility (Full STI and STIPA)
- Speech Level Meter
- Reverberation time (RT60)
- Statistical acoustics (percentiles)
- LEQ logging (A/C/Z)
- RTA logging / spectrograms
- Noise Curves (NR/NC)
- Sound insulation (R'/DnT)
- SRI / STC
- FFT analysis
- Oscilloscope
- AC Volt meter
- THD+N
- Fundamental frequency
- Loudspeaker polarity
- Calibrated audio recording
- Built-in signal generator (STI, noise, sines, sweeps)

* More functionality to be added through free firmware updates.

Functional specifications

- Full-color capacitive touch 4" LCD touch screen
- 32 GB of internal storage, at least 30 GB available for storing measurement data and audio
- USB-C data port for file access, charging and remote control
- Wireless connectivity through Bluetooth 5.0 and WiFi (802.11n).
- Headset jack for monitoring and voice annotations.
- Easy calibration procedure
- Comes standard with Type 1 / Class 1 measuring microphone; works with any 48 V XLR measuring microphone.
- Approx. 5-8 hours of use on a single charge, depending on intensity of use.
- Recharging through USB-C. Works with any USB PD3 compliant charger.
- Remote control by screen cloning via USB, BT or WiFi
- Take screenshots at any time (in .PNG format)

Technical specifications

Technical specifications of the Model 49 Nova Pro include:

- Linear range of electronics (combined ranges) >118 dB
- Self-noise < 14 dB(A)
- STI module fully compliant with IEC-60268-16 rev 4 (2011) and rev 5 (2020)
- Type 1 / Class 1 SPL measurements compliant with ANSI S1.4 and IEC- 61762-1:2014.
- RTA filter specs exceed class 1 requirements (IEC- 61260:2014)
- Remote control API available

Accessories

The Pulsar Nova Pro comes bundled with the following accessories:

- Ruggedized carrying case
- Microphone
- Mic diffuser ring
- World charger
- USB-C cable
- Carrying cord
- Quickstart guide
- Calibration certificate
- USB flashdrive with test signals and manual
- Foam windscreen

