

T3.1-P28. Status of Digital Infrasound Sensors Developed by the NCPA

In collaboration with Hyperion Technology Group, Inc, the National Center for Physical Acoustics (NCPA) has developed a digital infrasound sensor that can be configured for broadband outdoor measurements (flat within 3-dB from 0.03-150 Hz) and a nominal maximum transducible pressure of 200-Pa peak-to-peak, ultra-broadband measurements for calibration systems (flat within 3-dB from 0.0003-Hz to 150 Hz) and very high level sounds (up to 110 kPa peak-to-peak). This sensor has a GPS-locked digitizer that stores over four months of continuously sampled data digitized at 1000 samples per second. The measurement performance of this system, including noise floor, reproducibility of measurements between sensors, linearity, mechanical robustness, etc. will be summarized.

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