



CASP

COMPLETE AUTOMATIC SEISMIC PROCESSOR

KEY FEATURES

State-of-the-art product in the field of seismic monitoring and analyses.

CASP is an advanced and highly customizable automatic procedure that analyzes raw seismic waveforms in order to provide P and S arrival times and reliable seismic locations along with their strong-motion parameters. CASP is a general-purpose phase detector, locator, and analysis tool which is specifically applicable to real-time local seismicity and environmental monitoring. It analyzes real-time, or stored raw waveform fluxes to quickly identify picks and accurately locate and characterizes events. The constant close collaboration with the Seismology Laboratory of the Distav (University of Genoa) has allowed Lunitek to develop state-of-the-art products in the field of seismic monitoring. CASP has also been used in various international scientific projects, along with the creation of the first high-resolution earthquake catalogue of the seismic sequences that occurred in Central-Italy between 2016-2017, with astonishing results and more than 450.000 reliably detected events.

EVENT LOCATION (LATITUDE, LONGITUDE, DEPTH)

P+S ARRIVAL TIME

MAGNITUDE

PEAK GROUND VELOCITY (PGV)

PEAK GROUND ACCELERATION (PGA)

PEAK GROUND DISPLACEMENT (PGD)

HOUNSER INTENSITY (for different periods)

SPECTRAL AMPLITUDE (for different periods)