QUAKELOGIC

LUNITEK

DATA-SHEET JUP 001

JUPITER

MONITORING SOFTWARE PACKAGE

Jupiter is a software package which allows the user to monitor, manage and configure a seismic or structural monitoring network composed of Lunitek devices.

Thanks to its powerful and user-friendly interface, it is possible to automatically detect all the devices connected to the network, stream, visualize and locally store real-time data, send a common configuration to all devices, check the state-of-health of the network, collect event data for EEW, run built-in or third party analysis scripts and send remote alarms.

Jupiter is compatible with all the digitizers, seismographs and accelerographs in the Lunitek catalogue (Atlas, Triton, Sentinel MEMS, Sentinel GEO, Hyperion)

Jupiter is powered by Obspy Python library for seismology which makes it easy to develop custom analysis scripts.

KEY FEATURES

- Accessible via web interface: any device that supports a web browser (laptop, tablet pc, smartphone) may be compatible with Jupiter
- It automatically discovers the devices installed in the local network, OpenVPN network or WAN without having to manually specify the IP address of each device: network configuration becomes effortless
- View state-of-health information for devices: alarm situations can easily be detected by the network operator
- Real-time data streams on the web interface: no need to install additional software
- Send common commands to all of the sensors: START, STOP, MANUAL TRIGGER, CONFIGURATION (sample rate, trigger parameters)

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LIVE DATA SHEET

OTHER FEATURES

It automatically configures seedlink connections to each device to; continuously stream recorded data and store the data in a SDS directory structure, and it generates additional metadata (dataless SEED and/or FDSN stationxml) for instrumental response removal. The software package includes a built-in Seedlink server that makes it fully compatibility with well-known seismic analysis software like SeisComP3, EarthWorm and Antelope.It automatically collects trigger-based event data from the devices

Automatically collects trigger event data from the devices

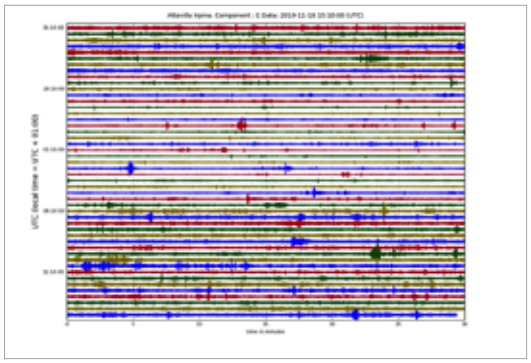
It forwards data to a remote or cloud server on demand

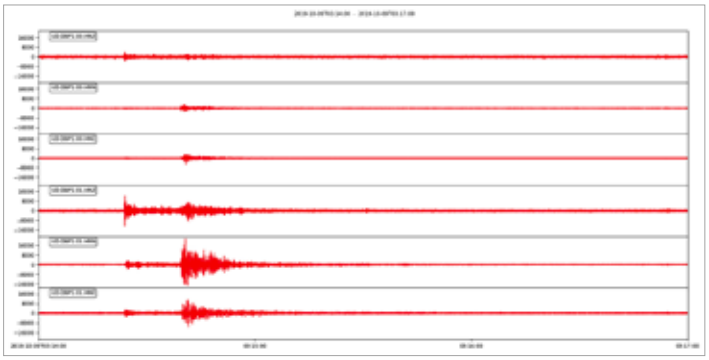
UPCOMING FEATURES (Q3 2020)

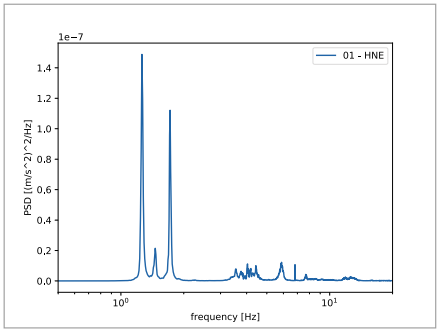
- Shake map generation
- Pseudo spectra calculus
- Map showing the geographical position of the devices
- Remote alarms and reports through email or Telegram Instant Messaging

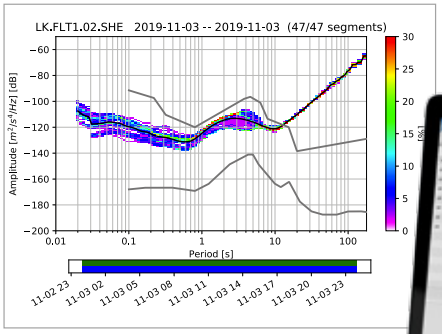
MINIMAL REQUIREMENTS

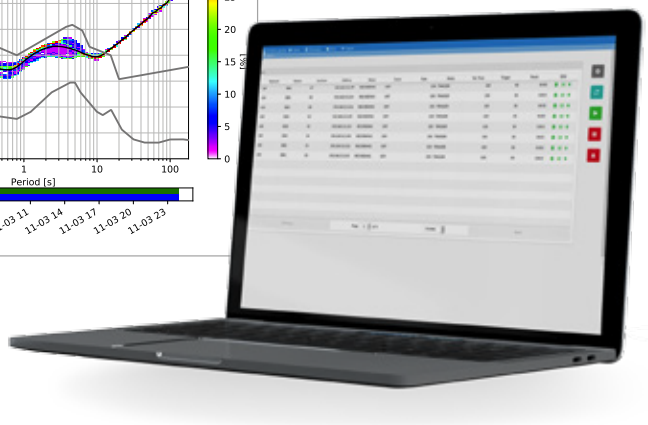
- Linux Debian OS
- Intel i3 Processor or equivalent, 2GB RAM, 256GB Hard-disk
- Up-to-date browser version
- > 7" display (preferably > 10")











Device Handling Software

This datasheet can be reviewed or updated