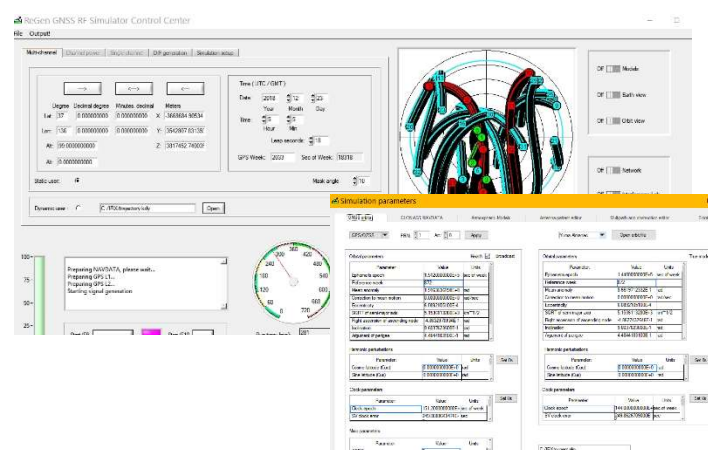


**GNSS simulator and signal analysis instrument**

**The ReGen™ GNSS simulator control centre**



**Features**

- Real-time simulation of GPS L1, Galileo E1, BeiDou B1, GLONASS G1 and IRNSS L5, up to two frequencies at a time, selectable from GUI.
- Comprehensive simulation models include atmosphere, multipath etc.(see ReGen datasheet).
- Record and playback incl. wideband signals.
- Signal analysis based on ionospheric scintillation monitor.
- Simulated and recorded signals can be stored in digitized format , analysed by a MATLAB software receiver and played back as RF at any time.

**Features**

- Real-time simulation of single or dual frequency GPS, Galileo, GLONASS, BeiDou.
- Off-line simulation of digitized GNSS signal, similar to those recorded from life satellites by our RF signal recorders. The signal can be played back as RF at later time or analysed by MATLAB receiver.

**GNSS RF Simulator Replicator-X**  
 Up to 20 GNSS signals on 6 frequencies.



**ReGen advanced features (professional version and optional)**

- Multipath simulation.
  - Receiver antenna pattern editor .
  - Satellite antenna pattern editor.
  - Obstruction editor.
  - Single channel simulator : allows to switch off code , carrier and data, set a Doppler profile
  - Receiver in the loop function with NMEA input from a receiver under the test and accuracy analysis functions.
  - Trajectory simulator with various segment commands.
  - Various clock degradation models .
  - Output of simulated data in NMEA format.
  - Advanced ionosphere simulation:
- NeQuick model, ionospheric gradient error editor , scintillation simulation , Bubble simulation  
 Fault scenarios (RTCA LAAS ICD and FAA CAT-1 LAAS spec) .

**Jyoti Electronics**  
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