# GSG Series Comparison Chart

### Advanced Multi-Frequency GNSS Simulator

- **Channels**: 32, 48, 64
- **Simultaneous Frequencies**: 2, 3, 4
- **Constellations**: GPS standard; GLONASS, Galileo, BeiDou, QZSS optional (contact Spectracom for availability of future constellations)
- **Signal Types (Frequencies)**: L1 standard; L2, P-code, pseudo P(Y), L2C, L5, E1, E5, E6, B1, B2 optional
- **Power**: -65 to -160 dBm
  - resolution: 0.1 dBm to -150 dBm, 0.3 dBm to -160 dBm
  - accuracy: ±1.0 dBm
- **Size/Weight**: W x H x D: 210 x 90 x 395 mm (8.25” x 3.6” x 15.6”), Weight: 2.7 Kg (approx. 5.8 lbs)
- **Interfaces**: GPIB, USB, Ethernet
- **SCPI command set, web browser interface**
- **Timing Features**: High stability OCXO internal oscillator, 10 MHz input/output, 1PPS output, external trigger
- **Dynamic Trajectories**: Yes
- **Advanced Features**: SBAS, White Noise, Multipath, Interference, Leap Second, Environmental Modeling
- **Optional Features**: Sensor Simulation, Real-time Scenario Generator, Record and Playback, Jamming, D-GNSS/RTK, High Velocity
- **GSG StudioView Windows Software**: One license per unit included, multi-license options available
- **Upgrade Path**: Firmware upgrades on constellations and signal types. Factory upgrade for channels/simultaneous frequencies.

### Advanced Multi-Channel GNSS Simulator

- **Channels**: 4, 8, 16
- **Simultaneous Frequencies**: 1
- **Constellations**: GPS standard; GLONASS, Galileo, BeiDou, QZSS optional (contact Spectracom for availability of future constellations)
- **Signal Types (Frequencies)**: L1 standard; E1, B1 optional
- **Power**: -65 to -160 dBm
- **Size/Weight**: W x H x D: 210 x 90 x 395 mm (8.25” x 3.6” x 15.6”), Weight: 2.7 Kg (approx. 5.8 lbs)
- **Interfaces**: GPIB, USB, Ethernet
- **SCPI command set, web browser interface**
- **Timing Features**: High stability OCXO internal oscillator, 10 MHz input/output, 1PPS output, external trigger
- **Dynamic Trajectories**: Yes
- **Advanced Features**: SBAS, White Noise, Multipath, Interference, Leap Second, Environmental Modeling
- **Optional Features**: Sensor Simulation, Real-time Scenario Generator, Record and Playback, Jamming, D-GNSS/RTK, High Velocity
- **GSG StudioView Windows Software**: One license per unit included, multi-license options available
- **Upgrade Path**: Firmware upgrade on constellations and channels up to 16. Factory upgrade for >16 channels and multi-frequency.

### Single Channel GNSS Tester

- **Channels**: 1
- **Simultaneous Frequencies**: 1
- **Constellations**: GPS standard; GLONASS, Galileo, BeiDou, QZSS optional (contact Spectracom for availability of future constellations)
- **Signal Types (Frequencies)**: L1 standard
- **Power**: -65 to -160 dBm
- **Size/Weight**: W x H x D: 210 x 90 x 395 mm (8.25” x 3.6” x 15.6”), Weight: 2.7 Kg (approx. 5.8 lbs)
- **Interfaces**: GPIB, USB, Ethernet
- **SCPI command set, web browser interface**
- **Timing Features**: High stability OCXO internal oscillator, 10 MHz input/output, 1PPS output, external trigger
- **Dynamic Trajectories**: Yes
- **Advanced Features**: SBAS, White Noise, Multipath, Interference, Leap Second, Environmental Modeling
- **Optional Features**: Sensor Simulation, Real-time Scenario Generator, Record and Playback, Jamming, D-GNSS/RTK, High Velocity
- **GSG StudioView Windows Software**: One license per unit included, multi-license options available
- **Upgrade Path**: Firmware upgrade on constellations and channels up to 16. Factory upgrade for >16 channels and multi-frequency.