



# DS INSTRUMENTS

WWW.DSINSTRUMENTS.COM



## SG40000PRO – 0.1 TO 40GHz LOW-NOISE WIDE-BAND MICROWAVE GENERATOR

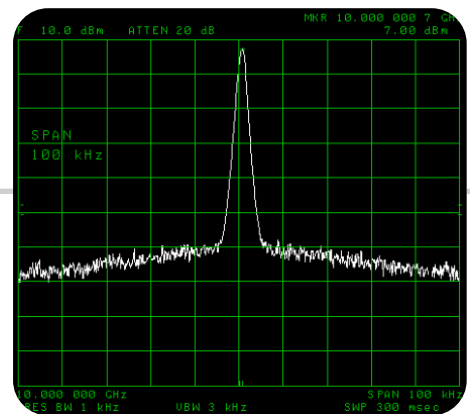


### 2024 REV 5 Product Features!

- Ultra-stable **oven-controlled** reference
- High band output port: **25-40 GHz** (2.92mm)
- Low band output port: **0.1-25GHz** (SMA)
- Dual USB-C inputs for power flexibility
- Internal harmonic filtering
- Phase control (1-degree resolution)
- Full-band power output calibration
- Full-band output level control to 40GHz
- MCX sweep trigger input
- Low spurious content
- Ethernet port for remote operation
- Ultra-wide output frequency range
- Front panel OLED display and buttons
- Ultra-low phase-noise and spurs
- Active thermal management
- Frequency sweeping with no PC
- Internal and external reference ports
- Simple PC control software included

### REV 5 Device Specifications:

- Frequency range: 100MHz to **40GHz**
- Calibrated output (0-25GHz): **-25 to +13dBm**
- Calibrated output (25-38GHz): **-15 to +13dBm**
- Calibrated output (38-40GHz): **-18 to +10dBm**
- Uncalibrated output: -30 to +15dBm typical
- Harmonics: **< -25dBc** typical
- Phase noise (20GHz): -95dBc @ 10KHz
- Phase noise (40GHz): -90dBm @ 10KHz
- Internal harmonic filtering (1GHz – 40GHz)
- Attenuator step size (digital): 0.50dB
- Variable attenuator resolution: 0.05dB typ.
- Frequency step size: 4Hz
- Reference input: 10MHz & 100MHz MCX
- Internal reference: 10MHz (**±10 PPB**)
- Dimensions: 4.15" x 1.15" x 5.15"



Contact us for more information!

[www.DSINSTRUMENTS.com](http://www.DSINSTRUMENTS.com)

