HPORTEK

PRODUCT DATASHEET

SYVSG-B500K40G

Portable Vector Signal Generator

Portable Vector Signal Generator · 500 kHz–40 GHz. For communications and laboratory signal generation, with multiple modulation formats, external power and battery operation.



Features

• Ultra-wide frequency range

• Rich modulation formats

• Integrated 10.1" LCD touchscreen

• User-friendly interface

• All-in-one chassis, easy to carry

• Arbitrary frequency step

Published technical information

Parameter	Specification / typical value
Functional Specifications	
I/Q data loading	Supported
Built-in self-test	Supported
Remote control	Supported
Graphical user interface	Supported
Logging	Supported
Sync output & external pulse modulation	Supported
Multiple modulations: AM, FM, PM, CW, ASK, PSK, FSK, QAM, etc.	Supported

Parameter	Specification / typical value
Touchscreen & key control	Supported
AC adapter / battery powered	Supported
Technical Specifications	
Output Frequency	500kHz ~ 40GHz
Output Frequency Accuracy	≤1ppm
Instantaneous Bandwidth	≤600MHz
Output Power	-120dBm ~ +10dBm（500kHz ~ 18GHz）；-110dBm ~ +5dBm（18GHz ~ 40GHz）
Min. Output Power Step	0.1dB
Power Accuracy	±1.5dB (output power ≥-60dBm); ±0.5dB (output power ≥-40dBm)
Sweep Mode	Step sweep, list sweep, etc.
Output VSWR	≤1.8
Harmonics	≤-40dBc (output power -20dBm)
Spurious	≤-40dBc
Phase Noise	≤-105dBc/Hz @ 10kHz (10GHz output)
General Specifications	
Dimensions (L×W×H)	320 mm × 240 mm × 60 mm (excluding corner guards and handle)
Weight	≤5 kg (including battery)
Battery Life	≥2h
Operating Temperature	-10℃ ~ +50℃
Storage Temperature	-20℃ ~ +70℃

Prepared from the existing product catalogue. Specifications may change; typical values are not guaranteed limits. Confirm operating conditions, interfaces and ordering configuration with engineering. This document does not replace the equipment operating manual.

Engineering enquiries: george@hportek.com

https://www.hportek.com/en/product/rf-signal-generator-syvsg-b500k40g/