

# Test Equipment

## Portable CW Carrier RF Signal Generators



**SCG**



**DCG**



**HG**

### FEATURES:

- Four standard return path signal generator models; other configurations are available on request
- Frequencies of HG Series units designed for North America & international frequencies
- Frequencies & output levels for SCG & DCG are typically  $\leq 50\text{dB}$  or customer specific
- Generators can operate from a wall plug-in AC power adapter or from built-in NI-CAD rechargeable batteries; optional standard alkaline batteries can also be used
- Output frequencies of DCG-F1/F2 are each controlled by an independent on/off switch

### DESCRIPTION AND APPLICATION:

Our complete line of pocket-size RF generators includes flat-output, crystal controlled harmonic models for North American and international frequency allocations, as well as single and dual carrier models. These inexpensive portable signal sources provide a cost-effective solution for initial set up of return path, and other services in the 5-65MHz bandwidth. Single and dual carrier generators are designed per customer requirements in frequency (MHz) and output level (dBmV).

The durable metal housings can withstand rough field handling and, should they be accidentally dropped, the solid metal shield eliminates damage to the on/off switch. An "out of calibration" alarm which doubles as a low battery indicator is included on all models.

While you can use these handy generators for several applications, the most popular are proofing your subscriber's drop prior to the installation of a cable modem, and return path activation and balancing. In addition, when used in conjunction with a signal level meter, these generators have also been proven effective in measuring the insertion loss of cables, amplifiers, splitters and taps.



## Technical Specifications

### Harmonic Units

Parameter	HG-864	HG-742
Output frequency, MHz	8,16,24,32,40,48,56,64	7,14,21,28,35,42
Output impedance, ohms	75	75
Output level, dBmV	from 40 to 51	from 40 to 51
Output flatness, dBmV	$\pm 0.5$	$\pm 0.25$
Spurious output, dBc	at least -60	at least -60
Out of calibration alarm	built-in	built-in
Charging time (ni-cad only)	16 hours	16 hours
Battery operating time (ni-cad)	8 hours minimum	8 hours minimum
Over-voltage protection	90 VAC/VDC	90 VAC/VDC
Power supply/charger	110 or 220 VAC / 9 VDC	110 or 220 VAC / 9 VDC
Dimensions	4.7x1.6x1.3 in. 120x40x32 mm	4.7"x1.6"x1.3" 120x40x32 mm

### Single/Dual Frequency Units

Parameter	DCG-F1/F2	SCG-F
Output frequency range, MHz	5 to 65 (any two)	5 to 65 (any one)
Output impedance, ohms	75	75
Output level, dBmV	from 35 to 55	from 35 to 55
Output flatness, dBmV	$\pm 0.25$	N/A
Spurious output, dBc	at least -60	at least -60
Out of calibration alarm	built-in	built-in
Charging time (ni-cad only)	16 hours	16 hours
Battery operating time (ni-cad)	70 hours minimum	80 hours minimum
Battery operating time (alkaline batteries)	100 hours minimum	120 hours minimum
Over-voltage protection	90 VAC/VDC	90 VAC/VDC
Power supply/charger	110 or 220 VAC / 9 VDC	110 or 220 VAC / 9 VDC
Dimensions	5.6"x2.5"x1.3" (140x64x32 mm)	4.7"x1.6"x1.3" (20x40x32 mm)

Specifications are subject to change without notice.