

# SPECTRUM ANALYZERS



The 2650 are high performance spectrum analyzers providing excellent performance and functions perfect for many different applications. It is a compact, lightweight and inexpensive unit that is ideal for testing W-CDMA, CDMA, GSM, PDC, PHS, Wireless LAN and Bluetooth systems. There are many accessories available for the 2650 and some of them may be necessary for your application, so please view the available accessories before ordering.

## B&K Precision 2650

- Channel power measurement
- Adjacent channel power measurement
- Occupied bandwidth measurement
- Electric field strength measurement (with optional dipole antennas)
- Magnetic field strength measurement (with optional PR 26M)
- Min/Max hold
- Average and over write mode
- Marker measurement
- Switchable 50 or 75 ohm input impedance
- Peak search
- Auto tuning
- Auto range
- Save/Load
- Hard copy of display (with optional PT 2650)

**Included accessories:** 120V adapter, soft carrying case, battery pack, accessory pouch, fuse

| SPECIFICATIONS          | B&K 2650   |
|-------------------------|--|
| Frequency Range         | 50 KHz to 3.3 GHz  |
| <b>Center Frequency</b> |  |
| Setting Resolution      | 100KHz, Allows rotary encoder, numeric keys and function keys (up and down) for setting CF                             |
| Accuracy                | < +(30+100T)KHz @ 200KHz to 10MHz span<br>< +(100+700T)KHz @ 20MHz to 3.3GHz span<br>at 23°C (+5°C), T = sweep time(s) |
| <b>Frequency Span</b>   |  |
| Setting Range           | 0Hz (zero span), 200KHz to 2GHz (1-2-5 steps) and 3.3GHz (full span)   |
| Accuracy                | less than +3% @ 23°C (+5°C)  |
| Resolution Bandwidth    | 3dB bandwidth  |
| Setting Range           | 3KHz to 3MHz (1-3 step) and AUTO   |
| Accuracy                | less than +20%   |
| Selectivity             | 1:12 (nominal) @ 3dB:60dB  |
| Video Bandwidth         | 100Hz to 300KHz (1-3 step), OFF and AUTO   |
| SSB Phase Noise         | -90dBc/Hz (typical) @ 100KHz offset  |
| Spurious Response       | less than 60dBc  |

## Instek GSP-827



**Included accessories:** Power cord

| SPECIFICATIONS              | GSP-827  |
|-----------------------------|--|
| Frequency Range             | 9kHz-2.7GHz  |
| Span Range                  | 2kHz to 2.5GHz in 1-2-5 sequence, full span, zero span   |
| Phase Noise                 | -85dBc/Hz @1GHz 20kHz Offset typical   |
| Time Base                   | ± 10ppm, 0-50°C, 5ppm/yr   |
| <b>RESOLUTION BANDWIDTH</b> |  |
| RBW Range                   | 3kHz, 30kHz, 300kHz, 4MHz  |
| RBW Accuracy                | 15%  |
| Video Bandwidth Range       | 10Hz to 1MHz in 1-3 steps  |
| Sweep time                  | 100ms to 25.6s   |
| <b>AMPLITUDE</b>            |  |
| Measurement Range           | -100dBm to +20dBm: 1M~2.5GHz @ 3k RBW<br>-95dBm to +20dBm: 2.5GHz~2.7GHz @ 3k RBW<br>-70dBm to +20dBm: 150k to 1MHz @ 3k RBW<br>-60dBm to +20dBm: 50k to 150kHz @ 3k RBW |
| Reference Level Range       | -30dBm to +20dBm, overload protected   |

- Frequency range: 9kHz~2.7GHz.
- Input range: -100dBm~+20dBm.
- Average noise floor: -130dBm/Hz.
- Power measurements: ACPR/OCBW/CH Power.
- Split window: simultaneous measurements in two separate frequency spans.
- RBW: 3KHz, 30KHz, 300KHz, 4MHz.
- 300Hz RBW, EMI filters, AM/FM demodulation options available.
- Light weight at 4.5kg and compact size.
- AC/DC/battery operation.
- 100 trace/state memories with date/time stamp and file name.
- 10 markers: delta mode, peak search, peak track
- Trace function: dual-trace display, peak hold, freeze, average, trace math
- Limit line: upper/Lower limit with pass/fail test.
- Trigger function: video/ external.
- Clock/calendar: time/date stamp in saved data.
- Wide range of external reference clock: 1MHz...19.2MHz.