Radio communications system

This set constitutes a homogeneous complete system (generator + analyzer + PC link + assignments) for moderate acquisition cost. From a PC, the user can:
- control the spectrum analyzer and the bench
- make screen copies

The set also operates autonomously without PC.

Scope of supply
- One main console
- One spectrum analyzer
- One student book containing 9 Practical Assignment modules:
  - Experiment 1: Basic operation of a spectrum analyzer
  - Experiment 2: Measurement of a baseband signal
  - Experiment 3: Different wave forms in baseband and their harmonic measurements
  - Experiment 4: Measurement of the RF carrier
  - Experiment 5: Measurement of the AM signal
  - Experiment 6: Measurement of the FM signal
  - Experiment 7: Using a spectrum analyzer in Communication Systems
  - Experiment 8: Measurement on communication products
  - Experiment 9: Remote control of the analyzer and the generator on PC
- One manual for the instructor, with practical assignment answers
- One CD with the remote control program.
- 3 RF cables, 1 antenna, one N / SMA adapter, mains cord.
- 2 USB cables for control link by PC.

FEASURES OF THE CONSOLE
5 test points accessible on the front, in particular for controlling the levels of AM and FM signals, for doing the practical assignments.
Buttons for step control of the carrier and signal frequencies.
Two displays show the signal and carrier frequencies respectively.
Remote control of the console is accessible from PC by a USB port.
Dimensions/Weight: 165 x 155 x 90 mm / 1.2 kg

FEASURES OF THE SPECTRUM ANALYZER
GSP730 is a spectrum analyzer adapted for teaching, including use help functions: Autoset, Screen share (the same signal shown by 2 different scans), template creation, power measurement of RF signals, program for remote control from PC, simple and user friendly.

FREQUENCY
- Range: 150kHz à 3GHz
- Central frequency: Resolution 0.1MHz / Accuracy 50kHz
- Frequency deviation: 1MHz to 3GHz. Accuracy 3%
- Width of RBW filter: 30 - 100 - 300 - 1000kHz

AMPLITUDE
- Ratings / Units: -40dBm to + 20dBm / dBm dBV dBµV
- Max level: 30dBm
- Mean noise: ≤ -100dBm
- Input impedance: 50 ohms connector N

SCANNING
- Ratings / accuracy: 300ms to 8.4s / 2%

OTHER FEATURES
- Interface: USB full speed / RS232
- VGA output: Sub D
- Screen: colors LCD 14 cm
- Dimensions/Weight: 196x153x105 mm / 2.2 kg