

## NEON. DVBT Signal Analyzer

- For analog channels: channel level, V/A ratio, C/N ratio..
- For Digital channels: channel power, MER, preBER, postBER.
- Measurement modes: level, Full-Scan, ripple, spectrum, MER/BER, constellation.
- Data saving: channel plans and measurements.
- PC Software allows:

Virtual mode operations: signal parameters measurement and displaying on the bar diagram, spectrum analysis, received DVB-T signal parameters and constellation diagram.

Displaying, creating, editing, uploading and saving TV system tables, channel plans, measurement registry pages.

Measurements reports saving and printing.

Firmware update.



NEON

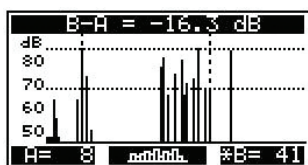
### TECHNICAL SPECIFICATION

Frequency measurements range	MHz	45 do 865
Frequency step	kHz	125
TV system		CCIR default (editable via PC)
Level measurement range	dBuV	30 do 120
Level measurements step	dB	0,1
Level measurements accuracy	dB	±1,5
Modulation COFDM-2k/8k		QPSK, QAM16, QAM64
Hierarchical modulation type		$\alpha = 1, 2, 4$
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval		1/4, 1/8, 1/16, 1/32
BER measurement range		10 <sup>-3</sup> to 10 <sup>-8</sup>
MER measurement range	dB	18 to 35 (for QAM64)
Battery life no less than	h	3

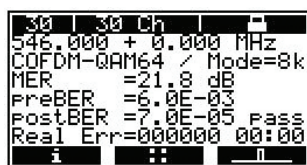
NEON – DVB-T signal analyzer is dedicated for DVB-T signal measurements. The meter offers the following measurements for analog channel: channel level, V/A ratio and C/N ratio. For digital channels channel power can be measured. For DVB-T signals NEON offers measurement of reception quality parameters: modulation error ratio MER, bit error ratio BER before and after Viterbi decoder, erroneous packets after Reed-Solomon decoder counter and constellation. NEON features automatic defining of the settings (channel frequency, subcarriers number, subcarriers modulation type, guard interval, code rate, spectrum inversion). NEON can be connected to a personal computer to access additional modes. The Analyzer allows to measure direct and alternating voltage of the remote power supply of the TV and broadcasting distribution networks.



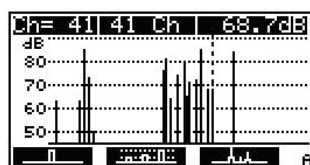
LEVEL Measurement



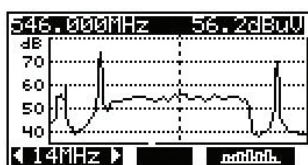
RIPPLE



MER/BER



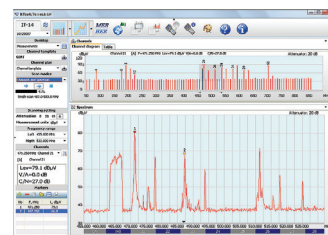
FULL-SCAN



SPECTRUM



Constellation



View after connecting to the PC