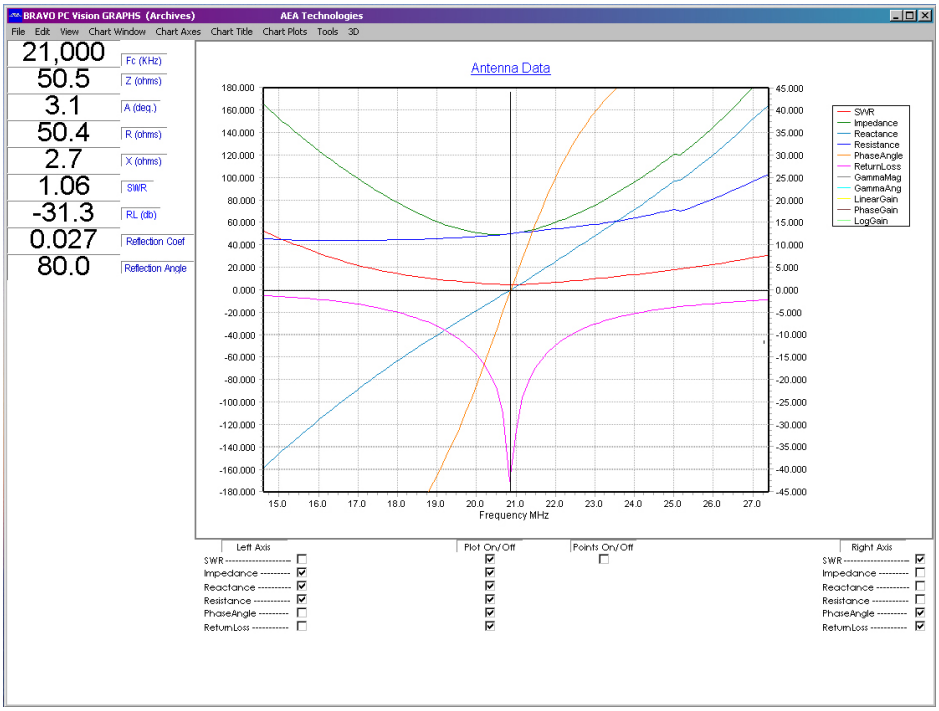
AEA Technology, Inc. VIA Bravo™ Analyzer

US Patent 7,030,627 B1

Belt Case



The VIA Bravo is a handheld Vector Impedance Analyzer for measuring the impedance and resonant frequencies of circuits and antennas. The VIA Bravo has the capability of providing accurate measurements and sweep displays of impedance, reactance, resistance, phase angle, return loss and SWR. The VIA Bravo's testing functionality, combined with its 100 kHz to 200 MHz frequency range, make it a versatile tool for many service applications including areas such as MRI, wireless telemetry, 2-way radio, aviation, and Radio Frequency Identification (RFID).

The VIA Bravo Analyzer comes in three versions with the capability of simultaneously displaying two separate measurement graphs and the respective scales. The versions include the standard S11 port Bravo model, the S11 and S21 ports Bravo II model, and the Bravo II XF (eXtra Fine frequency resolution) model.

The Bravo **PC Vision** Software application, included with the VIA Bravo, provides the user with the capability of remotely operating the VIA Bravo through a serial port connection while viewing real time results on a PC. A Smith Chart display of the measured circuit impedances is also available. The **PC Vision** Software makes the capture, storage, and printing of documentation and reports easy.

The VIA Bravo has proven to save time, improve on reliability and quality, and reduce service wait time.

Models

VIA Bravo Analyzer.....6014-5000
VIA Bravo II Analyzer.....6014-5250
VIA Bravo II XF Analyzer.....6014-5300

Includes

PC Vision software.....6014-1220
Serial Cable.....0070-1201
AC adaptor, 90-240 VAC.....5001-0202
Belt carrying case.....5001-1002
Calibration load set.....6015-1301

Made in the USA

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AEA Technology, Inc. VIA Bravo™ Analyzer

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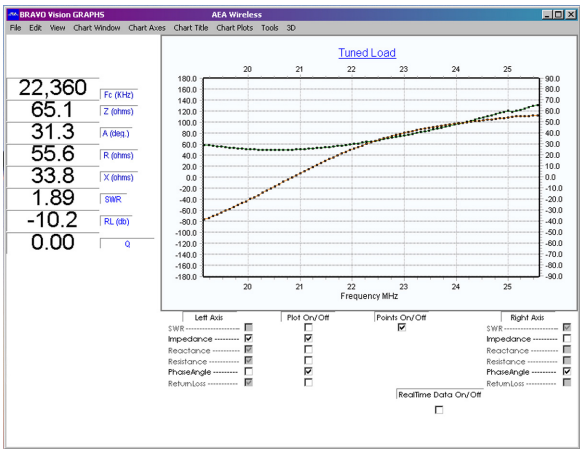

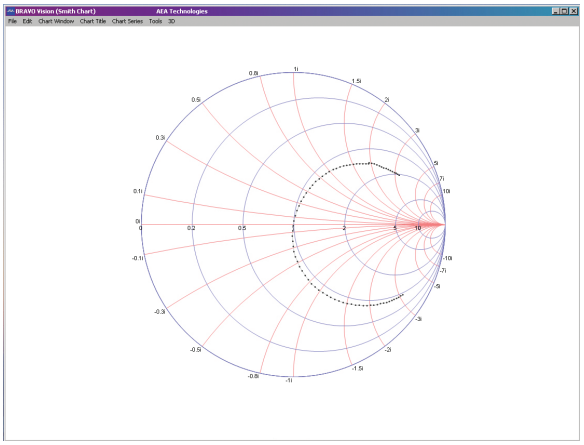

Bravo **PC Vision** Screen Shots

Optional Hard Case
6015-1003

Optional Soft Case
6015-1002

For a complete and current list of testing adapters, terminations, and other accessories visit www.aeatechnology.com/products/accessories

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Features

- Large numeric display of Center Frequency graph values and Inductance or Capacitance values
- Simultaneously view two separate plots with differing scales
- Measure Parallel or Series Resistance and Reactance
- Automatic Calibration and Self-test
- Cable/Fixture Nulling
- Nonvolatile memories for both Plot Storage and Setup data
- Signal Generator Mode - CW signal generator
- Windows™ Bravo **PC Vision** software included
  - Real-time display of plots on PC
  - Smith Chart display
  - EASY transfer of memories in unit to software
- EL Backlit Supertwist LCD Display for sharp contrast
- Auditory cues for non-visual tuning
- Lightweight and portable

Benefits

- Saves time
- Improves reliability
- Reduces service wait time
- Improves quality

Specifications

• Frequency range	100 KHz to 200 MHz
• Tuning/display resolution	< 0.02% of center frequency - Bravo and Bravo II < 0.0025% of center frequency - Bravo XF models
• Measurement speed	~ 2 sweeps/second
• Frequency display width	0 to 51.6 MHz/80 data points/large numeric readouts 0 to 64 MHz/100 data points/large numeric readouts
• Impedance range	2 to 2000 Ohms
• Impedance plotting scales	0 to 100 Ohms Min, 0 to 2000 Ohms Max
• Impedance formats	Resistance, Reactance, Z, Z angle, SWR, R, S11 vector Also Gain and Gain Phase in Bravo II
• Phase angle plotting scales	+/- 15 to +/- 180 degrees
• Harmonic and spurious	> 30 dB below fundamental
• Output power	~ +5dBm @ 50 Ohms
• Serial interface speeds	4800 to 57.6K bps
• Power requirements	14-20 VDC @ 400 mA. minimum or 8 AA (Alk or NiMH)
• Antenna connector	"N" connector
• Size	8.5" x 4.3" x 2.25"
• Weight	20 oz. (500 grams)

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