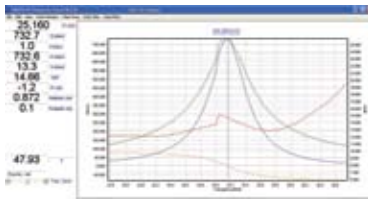


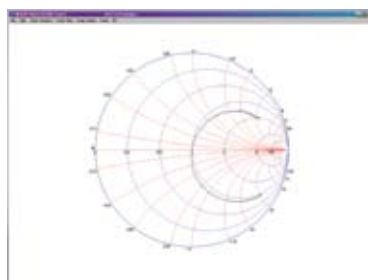
## VIA Bravo MRI™ Network Analyzer For Testing MRI Coils 0.1 - 3.0T



PC Vision VIA Chart



PC Vision Smith Chart



The VIA Bravo MRI is a Network Analyzer that accurately measures impedances from 2 to 2000 Ohms, resistance, phase angle, X, Q, return loss, and SWR. The Bravo MRI can simultaneously provide graphical display for any two measurement parameters. The frequency sweep is plotted in the X axis and independent left and right Y axis scales are user selectable. The Bravo's portability and ability to function in close proximity to magnetic fields make it the ideal test instrument for installing and servicing MRI systems. Additionally, our Bravo products come with Bravo PC Vision™ software. This software permits remote control operation of the Bravo MRI to upload test results to a PC or laptop, view the VIA or Smith Charts in full color, store and print complete analyzer documentation. While the Bravo's LCD can support displaying two parameters, PC Vision can display one or all the testing parameters at once. The Bravo MRI will save time, reduce capital expenditures, and reduce costs typically associated with the installation and servicing of MRI Systems.

### Specifications

- Frequency range: MRI - 100KHz to 70MHz (0.1 to 1.5T)  
MRI II - 100KHz to 200MHz (0.1 to 3.0T)
- Tuning Resolution: < 0.02% of Center Frequency
- Measurement Speed: ~ 1 sweeps/second
- Freq. Display Width: 0 -12.8MHz/80 data pts/Large Readout Mode  
0 - 16MHz/100 data pts/Small Readout Mode
- Impedance Range: 0 to 2000 Ohms
- Impedance Scales: 0 to 100 Ohms Minimum  
0 to 2000 Ohms Maximum
- Phase Angle Scales: ± 15 to ± 180 Degrees
- Harmonic & Spurious: >30 dB below fundamental
- Output Power: ~ -15 dBm @ 50 Ohms
- Power Requirements: 13.8 to 18 VDC @ 400mA Min.
- Input Connectors: BNC for Bravo MRI  
N Type for all other models
- Display: 64 x 128 pixels backlit LCD
- Non Volatile Memory: Slots 1-16 Instrument presets  
Slots 17-24 presets & data
- Dimensions: 8.5x4.3x2.25" (215x110x57mm)
- Weight: 20 oz (640g) without batteries

### Benefits

- Provides rapid coil performance analysis
- Improves MRI reliability
- Improves MRI image quality
- Reduces service wait time
- Reduces MRI out of service time
- Operates in magnetic environment
- Can be operated in remote control from a PC or laptop
- Document coil performance and tuning
- Maintain servicing records for coils
- Optional dual-port models (S11 & S21) for coil-to-coil loss/separation measurements

### Optional Accessories

**Kit Carrying Case, Soft Part# 6015-1002**  
Large reinforced soft sided carrying case with product wells in closed foam insert and shoulder strap



6015-1002

**Kit Carrying Case, Hard Part# 6015-1003**  
Large hard-shell carrying case with product wells in closed cell foam block. Case has gasket seal with handle, padlock holes and pressure vent.



6015-1003

**For 0.1 to 20.0T MRI or NMR Systems  
see VIA Echo MRI on reverse**

#### Models

- VIA Bravo MRI..... 6015-5000
- VIA Bravo MRI II..... 6015-5250

#### All Models Include:

- PC Vision software
- Serial Cable, 25ft (7.6m)
- AC Adapter, 90-240VAC 50-60Hz
- Padded Belt Case
- Calibration Terminators



5933 Sea Lion Place, Suite 101  
Carlsbad, CA 92010  
TEL 800-258-7805 or +1-760-931-8979  
FAX +1-760-931-8969

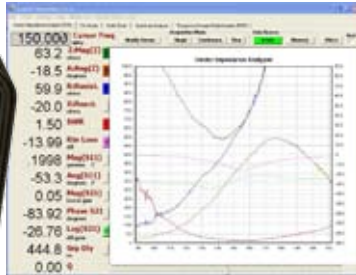


Made in the USA

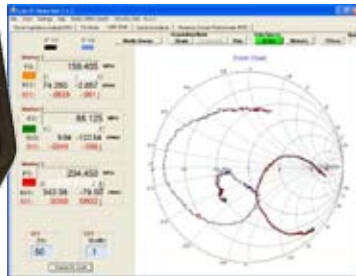
## VIA Echo MRI™ Network Analyzer For Testing MRI or NMR Coils 0.1- 20T



PC Vision VIA Chart



PC Vision Smith Chart



**The VIA Echo MRI is an Ultra Low Magnetic Network Analyzer** that accurately measures impedances from 2 to 2000 Ohms, resistance, phase angle, X, Q, return loss, and SWR. The Echo MRI can simultaneously provide graphical display for any two measurement parameters and a numeric display of a third parameter. The frequency sweep is plotted in the X axis and independent left and right Y axis plots are user selectable. The Echo MRI is Ultra Low-Magnetic and has the ability to function in close proximity to high magnetic fields making it the ideal test instrument for installing and servicing MRI or NMR systems. Additionally, our Echo products come with Echo PC Vision™ software. This new software permits remote control operation of the Echo MRI to upload test results to a PC or laptop, view the VIA or Smith Charts in full color, store and print complete analyzer documentation. While the Echo's LCD can support displaying two parameters, PC Vision can display one or all the testing parameters at once. The Echo MRI will save time, reduce capital expenditures, and reduce costs typically associated with the installation and servicing of MRI or NMR Systems.

### Specifications

- Frequency range: 4MHz to 1.0GHz
- Tuning Resolution: 1KHz
- Measurement Speed: ~ 2 sweeps/second
- Freq. Display Width: 250KHz x N (N = integer)
- Impedance Range: 0 to 2000 Ohms
- Impedance Scales: 0 to 50 Ohms Minimum  
0 to 2000 Ohms Maximum
- Phase Angle Scales: ± 15 to ± 180 Degrees
- Harmonic & Spurious: > 15 dB below fundamental
- Output Power: - 10 dBm @ 50 Ohms
- PC Communications: USB 2.0
- External Power : 15VDC @ 500mA Minimum
- Internal Power Lead Acid 12VDC battery
- Input Connectors: N Type S11 & S21 port
- Display: Quarter VGA backlit LCD
- Non Volatile Memory: 250 Instrument presets & data
- Dimensions: 13x11x5" (330x280x155mm)
- Weight: 9.5 lbs (4.25Kg)

### Enhanced Benefits

- All the benefits of the Bravo MRI's plus enhancements
- Excellent for NMR testing/tuning to 20T
- Ultra Low-Magnetic signature
- Larger quarter VGA LCD backlit display
- Third measurement parameter digitally displayed
- Larger keypad with full alpha-numerics
- Easier menu/feature selection system
- Integral hard case designed for instrument protection includes:
  - Pocket for non-magnetic materials
  - Removable pouch for magnetic items
- Printed Operator Manual and Quick Start Guide
- Operates in high magnetic environments
- Faster USB-2 port communications
- Extended USB Cable for remote PC operation
- New USB Echo PC Vision software included

**For 0.1 to 3.0T MRI Systems  
see VIA Bravo MRI on reverse**

### Model

VIA Echo MRI .....6025-5350

### Includes:

- |                                |                                   |
|--------------------------------|-----------------------------------|
| Echo PC Vision Software        | DC Extension Cord                 |
| USB Cable & Extension          | Calibration Terminators N & BNC   |
| Operator Manual                | N-to-BNC Adapter Set              |
| Quick Start Guide              | Removable Magnetic Material Pouch |
| AC Adapter, 90-240VAC 50-60 Hz |                                   |



5933 Sea Lion Place, Suite 101  
Carlsbad, CA 92010  
TEL 800-258-7805 or +1-760-931-8979  
FAX +1-760-931-8969



Made in the USA