3.5 GHz SPECTRUM ANALYZER

MORROW TECHNOLOGIES Model VC3500

- **Remote Site Monitoring via LAN, Modem, Wireless or the Internet**
- **Real Time Display of Critical Signals**
- **3.5 GHz Fully Synthesized Analyzer**
- **I/Q Processor Technology: Decode Complex Signals, Intelligence Gathering**
- **Small Footprint: Install Permanently or Carry into the Field**
- **Superior Specifications**
- **Low Phase Noise**

The VigilCom VC3500 Spectrum Analyzer from Morrow Technologies is small in size, yet packed with features. Its revolutionary design includes an embedded PC with I/Q processor technology. Whether permanently installed or used in the field, the VC3500 makes it possible to remotely monitor critical signals via LAN, modem, wireless or the Internet. A frequency range of up to 3.5GHz provides versatility for a wide variety of applications including Satellite Communications, Base Station Monitoring, Military and Intelligence.

SMALL AND VERSATILE

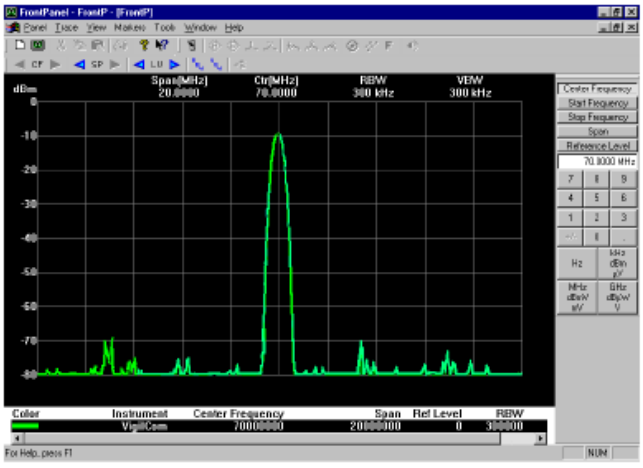
A mere 10" x 11¾" x 3¾" in size, the VC3500 is a full featured spectrum analyzer with a frequency range of 3MHz to 3.5GHz.* Install it anywhere permanently, or carry it with you for field applications. The VC3500 weighs in at about 12 pounds, yet its excellent specifications make it as capable as larger, more expensive spectrum analyzers. (The VC3500 can also be packaged in
a 19" rack mount [1RU] enclosure. Contact Morrow Technologies for details.)

SUPERIOR SPECIFICATIONS, I/Q PROCESSING

VigilCom's dynamic range, accuracy, phase noise and measurement speed make this instrument ideal for evaluating the RF characteristics of critical signals. The VC3500 includes an embedded Pentium PC and I/Q processing technology. This technology enables the VC3500 to be customized for a wide variety of applications including base station testing, decoding of complex signals and intelligence gathering applications.

MEASUREMENT AND READOUT FLEXIBILITY

Measure the RF performance of your system on a continuous basis, or hold a signal and all of its detail in a single sweep for closer review. Alarms can be set to trigger if the signal exceeds or falls below predetermined limits. Multiple traces such as maximum, minimum, average and actual signal levels can be displayed on the analyzer's graphical interface simultaneously in real time.



View of Virtual Front Panel

* Optional Range of 9 kHz to 3.5 GHz is available

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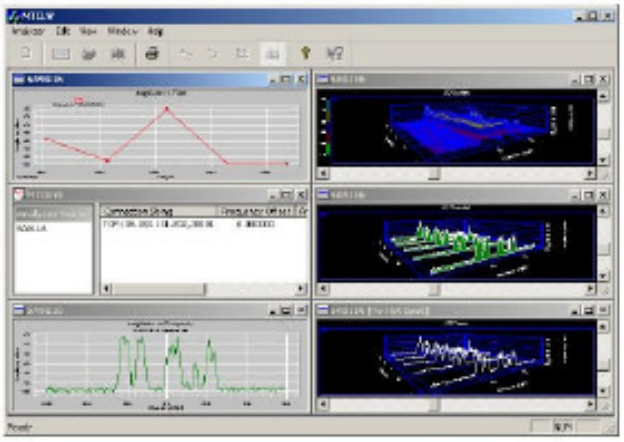
REMOTELY MONITOR CRITICAL SIGNALS

Reduce downtime and expensive field service calls by monitoring your system remotely with the VC3500. Place the VigilCom in your base station, earth station or listening post and operate it remotely from any location via LAN, modem, wireless or the Internet. VigilCom includes a virtual spectrum analyzer front panel that lets you view and control your spectrum display in real time from anywhere in the world, with no third party hardware or software required. Remote monitoring reduces the strain on technical staff requirements, ensuring continued system quality performance at a minimal cost.

DATA LOGGING - SITE PERFORMANCE ANALYSIS

Our new Data Logging software is the ideal tool to perform long-term trend analysis and determine causes of interference or other system abnormalities that cause degradation of the communication signal. Causes of interference occur intermittently, often when no operators are on site. Our Data Logger saves spectrum traces of the signal being monitored at user-defined intervals. You can determine the cause of interference by viewing the saved traces individually or in a group using the supplied three dimensional graphing techniques.



View of typical Data Logger screen

VIGILCOM IS RIGHT FOR YOU

Your exact specifications are important to us at Morrow Technologies, and that is why we continue to expand our line of VigilCom Spectrum Analyzers. Contact Morrow Technologies Corporation today to learn more about the exciting new VigilCom line and to get the right spectrum analyzer for your needs.

FREQUENCY

Frequency Range: 3 MHz to 3.5 GHz *

Reference:

Thermal Stability:

TCXO: +/- 1.0 PPM

OCXO: +/- 0.01 PPM

Phase Noise: <95 dBc/Hz @ 10 kHz offset

Resolution Bandwidth Range: 100 Hz to 1 MHz

AMPLITUDE

Range: -120 dBm to +20 dBm

RF Input:

Maximum measurement power: +20 dBm

Maximum safe input power:

+20 dBm with 0dB input attenuator

Third Order Intercept:

+5 dBm with 0dB input attenuator

Absolute Power Measurement Accuracy: +/- 1.5dBm

Noise Figure: 24dB @ 1GHz

Average Noise Level:

<-120 dBm 1 kHz RBW, input terminated in 50 ohms @ 1GHz

PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

Dimensions: 10" x 11¾" x 3¾"

Also Available as 19” rack mount (1 RU), 16” deep

Operating Temperature: 0 to 40 degrees C

Humidity: 0 to 95% non-condensing

ADDITIONAL SPECIFICATIONS

Communication Interface Options:

RS232 serial, Ethernet, modem, wireless modem

Protocol: TCP/IP

Power Requirements:

+24 VDC @ 3.5 amps max

+28 VDC (+20 to +34 VDC) *option*

AC Adapter available

* Optional Range of 9 kHz to 3.5 GHz is available

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