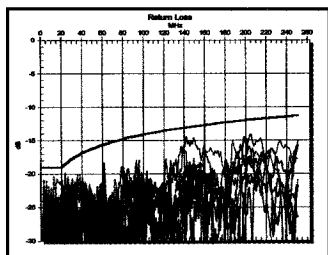


# OMNISCANNER<sup>TM</sup>2

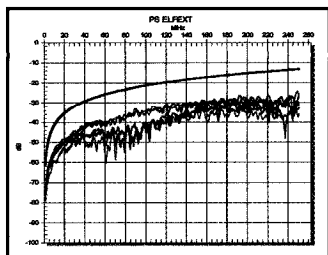
## PRODUCT SPECIFICATIONS

### REPORTING

The project-based Scanlink software that comes with your OMNISCanner2 lets you define your project configurations, cable type and customized tests. Scanlink produces full color graphs of test results and lets you export data into popular spreadsheet formats for full editing and formatting.



OMNISCanner2 graphic reports provide full-color charts for an array of test results including Return Loss, ELFEXT, PS ELFEXT, etc.



### FEATURES

- > Certifies Category 5, 5E, 6 and 7 cabling up to 300 MHz
- > Provides super-fast Autotest results and the most efficient overall testing process
- > Complies completely with the newest TIA/ISO/IEC standards
- > Exceeds proposed Level IV accuracy requirements
- > Matches the accuracy of a laboratory network analyzer
- > Features a dynamic range of 100 dB to accurately measure the faintest signals
- > Is the only field tester to measure link bandwidth

- > Provides advanced S-Bands<sup>TM</sup> diagnostics to pinpoint cause and location of link failures
- > Supports lightning-fast download \*times through a USB port\*
- > Stores over 10,000 autotests on Compact MMC\* card
- > Supports remote control from a PC and customizable autotest/cable libraries
- > Stores full graphical data for all measurements
- > Sets a new industry standard with a two-year warranty

\* Enabled by a free software release coming in 2000.

### PHYSICAL CHARACTERISTICS

- > OMNISCanner2:  
Dimensions: 8.75" x 4.5" x 2.12"  
(22.25 cm x 11.4 cm x 5.4 cm)  
Weight: 2.20 lbs (1 kg)
- > OMNIRemote2:  
Dimensions: 8.75" x 4.5" x 2.12"  
(22.25 cm x 11.4 cm x 5.4 cm)  
Weight: 1.96 lbs (0.89 kg)

### POWER SOURCE

- > Removable, rechargeable 9.6 Volts @ 1700 mA-Hr NiMH batteries
- > Built-in fast charger using AC adapter
- > Charging Time: 3.5 hours
- > Battery life: 10 hours operation AC: 15 VDC — 1 amp AC adapter for continuous operation or charging

### ENVIRONMENTAL

- > Operating Temperature: 0°C to 50°C (32°F to 122°F)
- > Storage Temperature: -10°C to 55°C (14°F to 131°F)
- > Operating Humidity: 5-90% non-condensing
- > Storage Humidity: 5-95%
- > Regulatory Compliance: CE Class A

### MEASUREMENT PORT (TEST INTERFACE)

- > Ultra low Crosstalk test interface supports testing of all 4 pairs
- > 160 pin test interface connector exceeds 10,000 mating cycles
- > Test cables and adapter modules support testing of 110 block, and shielded modular jack and plug interfaces

### COMMUNICATION PORTS

- > Connector: Cable: DB-9
- > Baud Rate: 300 to 38,400 baud
- > Parity: None
- > Length: 8 bits
- > Handshaking: None, RTS/CTS and XON/XOFF
- > USB port\*

### MEMORY

- > Control: Flash Memory allows electronic upgrading of OMNISCanner2/OMNIRemote2 programs
- > Test Storage: Up to 1000 Autotest results can be stored in flash memory; not subject to loss due to power or battery failures
- > Full graphical data can be stored (until memory is full)
- > MMC (MultiMedia Card)\*

### AUTOTEST FUNCTIONS

- > Full suite of tests to determine if cable meets generic cabling or network type requirements:
- > TIA (Cat 5, 5E, and 6 for both links and Channels)
- > ISO 11801 (Class C, D, E, and F), 10BaseT, 100Base-X, 1000Base-T, ATM 155, Australian/New Zealand Standard (Class D Link & Channel, Class C Link & Channel)
- > User-definable Autotests

### TRANSMISSION PERFORMANCE MEASUREMENT METHOD AND PARAMETERS

- > Cabling transmission performance measurements (NEXT, RL, Attenuation, and ELFEXT) are implemented using swept frequency domain, vector, digital signal processing measurement methods

### TEST FUNCTIONS

- > Wire Map: Finds miswires, opens, shorts, crossed/split pairs; presents results in a schematic format; includes shield test, if connected

- > NEXT (Near End Crosstalk): Tests all 6 pair combinations from both directions using OMNIRemote2; Frequency Range: 1 to 300 MHz
- > Return Loss: Measures Return Loss on all 4 pairs from both directions using OMNIRemote2; Frequency Range: 1.0 to 300 MHz; Dynamic Range: 0-35 dB
- > Attenuation: Tests all 4 pairs using OMNIRemote2 as far end active signal injector; Frequency Range: 1.0 to 300 MHz; Dynamic Range: >80dB
- > ELFEXT (Equal Level FEXT): Tests from both directions using OMNIRemote2 and reports all 24 pair combinations; Frequency Range: 1 to 300 MHz; Dynamic Range: >100 dB
- > ACR (Attenuation to Crosstalk Ratio): Computed for 4 pairs from both ends at all frequency points from respective pair to pair NEXT and Attenuation measurements
- > Length: Range: 0 to maximum distance, where max. distance = 457 m (1500 ft) for twisted pair cable; Accuracy:  $\pm K \pm \text{Length resolution}$   $\pm \text{NVP uncertainty}$ , where  $K = \pm 4\%$  of length or 0.6 m (2 ft), whichever is greater. Length resolution: 0.3 m (1 ft)
- > Resistance: Range: 0-500  $\Omega$ ; Accuracy:  $\pm 0.5 \Omega @ 0$  to 15  $\Omega$ ,  $\pm 2\% @ 15$  to 500  $\Omega$ ; Resolution: 0.1  $\Omega$
- > Power Sum NEXT, ACR, ELFEXT: Computed for both ends from respective pair to pair NEXT, Attenuation and ELFEXT measurements

### PRODUCT PART NUMBERS

- > 8260-xx (Call Microtest Sales for U.S. and International part numbers)

\*\* Specifications subject to change without notice.



 **MICROTEST**<sup>®</sup>  
the future of network testing

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# OMNIScanner2™

## ADVANCED CERTIFICATION FOR PREMIUM NETWORKS

### > A NEW STANDARD FOR NETWORK TESTING

With OMNIScanner2, Microtest raises the standards of network testing once again. This powerful new tool is **guaranteed to certify Category 6** even before standards have been finalized. In six vital areas, the all-digital OMNIScanner2 takes your cable testing process further—and faster—than any other network tester you could choose.

OMNIScanner2 is the **ONLY** network tester that:

- > **Instantly pinpoints specific connection failures** with S-Bands™ diagnostics.
- > Can test all the way up to **300MHz on Category 7/Class F** links.
- > Has **MultiMediaCard** flash storage for **10,000+ Autotests**.
- > Has **manufacturer-specific cable libraries** pre-installed.
- > Tests fiber cables for both **single-mode and multi-mode** with one adaptor.
- > Offers a **two-year manufacturer's warranty**.

### SPEED YOUR TESTING CYCLE

From beginning to end of the network testing process, OMNIScanner2 accelerates your work, simplifies your tasks and delivers higher productivity to your bottom line.

### EASY SET-UP

The vendor-specific cable libraries in OMNIScanner2 make setting up and executing your test operations easy. Regardless of the type of cable you are certifying, OMNIScanner2 speeds through the required test with ease.

### EASY ON-SITE USE

Simple, intuitive controls and commands make training your technicians easy. They will appreciate the clear display (1000%

brighter than the original OMNIScanner), the backlit keypad, the tough protective casing and the new long-lasting NiMH batteries. MultiMediaCard flash storage, storing more than 10,000 tests, will keep your team working without interruptions.

### PINPOINT ACCURACY

You, your customer and your cable manufacturer will all be reassured by the laboratory-standard accuracy of the OMNIScanner2—five times more precise than the proposed Level 3 standards. Microtest's patent-pending S-Bands™ diagnostics can save hours of confusion about network problems by instantly identifying (or eliminating) specific connection failures.

### FASTER UPLOADS

OMNIScanner2 is enabled for high-speed USB connection to your computer. With our free software upgrade, you will be able to transfer test results at breakneck speed to your PC.

### COLOR GRAPHIC REPORTS

The PASS report is the end-product your customer or management is looking for. Microtest has developed a superbly clear color graphic report that tells the whole test story at a glance. You can even insert your logo so that your good workmanship carries your own name.

### FIBER IS A SNAP

The OMNIScanner2 is more than the industry's leading copper cable tester—it's the premier fiber tester, too. Just snap on a handy adapter (sold separately) and you're holding the powerful OMNIFiber—the first network tester to

support measurements for both single and multimode fiber networks. The one-button Autotest on the OMNIFiber measures length, loss and propagation delay. It provides simultaneous measurements on both transmit and receive fibers, at 850 and 1300 nm. In single-mode it measures loss over two fibers simultaneously at 1310nm. With the OMNIFiber you can conduct bi-directional measurement without exchanging units.

The OMNIScanner2's ability to test both fiber and copper networks means higher productivity, lower cost and greater profitability.

### READY FOR THE FUTURE

The world of network cabling is changing faster than ever. To help you keep ahead, Microtest guarantees free software upgrades for new standards as they appear. OMNIScanner2 is your surest safeguard in an uncertain future. And it comes from the acknowledged authority on network testing—Microtest.

*Third  
Generation  
Digital DSP  
Technology*

**YES!**

*Accurately  
Certifies  
Categories 5,  
5E and 6 and  
tests Category  
7 today*

**YES!**

*S-Bands™  
technology  
saves time  
and money*

**YES!**



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the future of network testing

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