Here are new hand-held tools that can help you avoid the sudden avalanches of activity that sometimes bury LANs. Or help you quickly find where the fault lies if your LAN goes down due to disconnects, bad cable or for any other reason.

It doesn't matter whether you have Ethernet, ARCnet, Token Ring, StarLAN, or a twisted pair network. MicroTest scanning and monitoring tools work with these and just about any other cabling system.

Scanner applications
- Cable length measurements
- LAN activity monitoring
- Finding cables in ceilings, walls and floors
- Locating breaks, shorts, bad crimps, etc.
- Fault locating
- Determining when a repeater is needed
- Cable TV trouble shooting
- Generating as-built drawings and specifications
- Serial port handshake and baud-rate testing
- Isolating faulty network interface cards

Scanner—It's a monitor, fault finder, cable locator and much more.

The MicroTest Scanner is an easy-to-use tool for eliminating LAN breakdowns and reducing service call-backs, as well as for decreasing downtime when malfunctions do occur. In fact, the man-hours saved by preventing or shortening a single LAN breakdown may alone justify a Scanner purchase.

As a stand-alone tester, Scanner lets you determine if cabling is the cause of computer malfunctions, then helps you easily pinpoint the location of faults or breaks. Its 32-character display reports the fault location in plain English, for example: “Short at 306 ft.” There’s no technical jargon or numerical code to figure out. And Scanner can print a hard copy to any RS-232 printer or save the results of a test in its memory for review later.

Scanner’s colored keyboard also makes it easy to select the right test setting. You just punch the key for Ethernet, ARCnet, StarLAN, Token Ring, etc., depending on the type of LAN you have.

In addition to fault finding, Scanner can help you determine when it’s time to purchase a bridge or add a repeater to your cabling system. This is accomplished by providing real-time monitoring of your LAN’s communication activity.

In fact, by attaching MicroTest Scanner while your LAN is operating, you can see LAN...
activity graphically displayed on any PC monitor. Plus a line printer can be attached to record daily activity for regular review. This lets you locate a faulty network interface card, transceiver or repeater while the network is operating.

- Connected to an oscilloscope, Scanner's precision, high-speed, pulse-generating circuitry offers installers and other technicians a detailed view of the entire LAN, including transceiver, terminator and multiple faults. In other words, you get the capabilities of sophisticated time domain reflectometers. But not the expensive price tag.

- In addition, MicroTest Scanner allows you to print out a daily record of LAN activity, as well as test results.

- MicroTest Scanner helps eliminate other problems that often plague network administrators.

- It provides cable resistance measurements (terminators), noise level measurements (interference) and audible continuity checks.

- Also included with MicroTest Scanner is a device called Tracer. After Scanner has helped you locate the cable or connection where the fault lies, Tracer lets you know exactly where in the ceiling or wall the cable lies, whether it's coax, twisted pair or anything else. (See back of brochure for detailed description).

- To make using MicroTest Scanner as simple and as convenient as possible, the product package also contains an AC battery charger, cable adapters, and a helpful trouble shooter and repair guide.
Specifications

PRODUCT PACKAGE
1 Cable Scanner
1 Cable Tracer
3 Adapters
1 Printer Cable
1 Printer Adapter
1 PC Program Disk
1 Printer Test Connector
1 Operator’s Manual

DISTANCE

<table>
<thead>
<tr>
<th></th>
<th>Range</th>
<th>Accuracy</th>
<th>Resolution</th>
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<tr>
<td>Coax</td>
<td>20-10,000 feet</td>
<td>+/-2%</td>
<td>2 feet</td>
</tr>
<tr>
<td>Twisted pair</td>
<td>20-2,000 feet</td>
<td>+/-2%</td>
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DC LOOP RESISTANCE

<table>
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<th></th>
<th>Range</th>
<th>Accuracy</th>
<th>Resolution</th>
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<tbody>
<tr>
<td></td>
<td>0-25 ohm</td>
<td>+/-.2 ohm</td>
<td>0.2 ohm</td>
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</table>

NOISE DETECTION

- Low frequency (DC - 1000Hz)
  - 2.5V - +2.5V
- 20mV resolution
- 250 V spike input

PULSE OUTPUT—SCOPE MODE

- Short pulse 20 ns long
- Wide pulse 400 ns long
- Repeated every 500 µsec

POWER

- Batteries: 6AA Nicad—rechargeable via included charger
- Charger: 9 VDC, 500mA
- Scanner operates indefinitely while charging
- Charge life: 8 days—normal operation, 2 hours continuous scanning
- Charging: 10 hours to full charge

DISPLAY

- 32 Digit, 2-line LCD
- 2.4”x.63” view area, 22” characters
- 120-degree view angle

KEYPAD

- 12-key with tactile-feedback, color-coded cable type and function keys

SPEAKER

- Piezo electric
- 3,000 Hz pulsed and continuous tones
- Audible continuity, noise threshold tests

NOISE INJECTION

- 3,000 and 6,000 Hz at +/6 volts

TRACER SENSITIVITY

- 1.0 feet from cable

PHYSICAL

- Size: 1”x4”x7.5”
- Weight: 2 lbs.

ENVIRONMENTAL

- Temperature: 0-40 degrees C
- Humidity: 10% to 40% non-condensing

PRINTOUT PORT

- RS-232 Serial—Cable included
- 9600 Baud XON/XOFF protocol supported

PRINTER EMULATION CAPABILITIES

- Baud rate verification
- XON/XOFF protocol test

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Use these numbers when ordering

<table>
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<th>Products</th>
<th>Part Numbers</th>
<th>Optional Accessories</th>
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<th>Part Numbers</th>
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<tbody>
<tr>
<td>Cable Scanner</td>
<td>3570-00</td>
<td>Token Ring Adapter Kit</td>
<td>3570-01</td>
<td>Euro 220VAC Charger</td>
<td>3570-10</td>
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<td>Cable Tracer/Tracer</td>
<td>3571-00</td>
<td>StartLAN Adapter Kit</td>
<td>3570-02</td>
<td>UK 240VAC Charger</td>
<td>3570-11</td>
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<td>Coax/Twisted Pair Adapter Kit</td>
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Tracer—A simple way to locate any hidden cable or wire.

The MicroTest Tracer makes simple work out of locating any coax, twisted pair or other type of wire hidden inside a floor, wall, or ceiling.

Just connect Tracer's sending unit to the wire or cable, then run the pocket-size Tracer receiver unit over the areas where you suspect the wire may be located. The distance can be up to 1,000 feet from Tracer's sending unit.

When Tracer's receiver passes over the wire, an alarm sounds and grows stronger as Tracer gets closer, pinpointing the wire's exact location.

The Cable Tracer package includes the Tracer unit, a Sender unit and an operator's manual.

Checker—It quickly tells you if LANs or cables are in working order.

The MicroTest Checker can tell you if cables have shorts or breaks. Or it can help you determine which lead going into a wall or floor is connected to which lead coming out.

If the green LED on Checker’s receiver lights up, the cable is good. If only the red LED on Checker’s sender lights up, there’s a short. If neither LED lights up, there’s a break. It’s that simple.

The Checker product package includes both a sending and receiving unit, and an operator's manual.