

**TOOLS THAT
PREVENT MAJOR
LAN SLIDES.**



microtest

INTRODUCING MICROTEST LAN MONITORING



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



PRODUCING SCANNING AND NG DEVICES.



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.

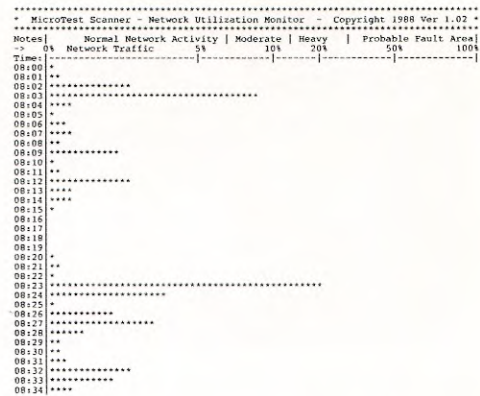
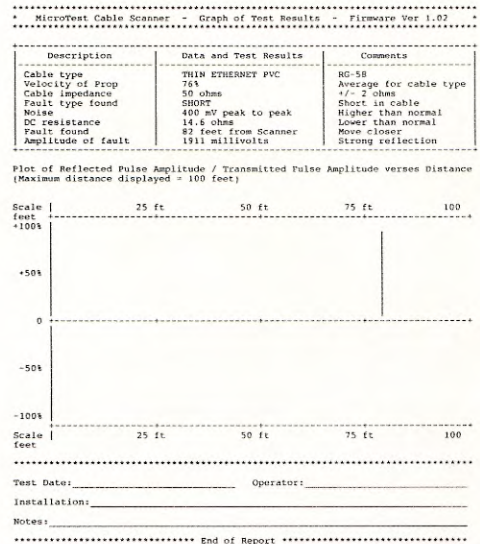
■ In addition, MicroTest Scanner helps eliminate other problems that often plague network administrators.

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

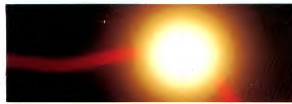
■ Also included with MicroTest Scanner is a device called Tracer. After Scanner has helped you locate the cable or connection where the fault lies, Tracer lets you know exactly where in the ceiling or wall the

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.



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



Specifications

PRODUCT PACKAGE

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

DISTANCE

	Range	Accuracy	Resolution
Coax	20-10,000 feet	+/-2%	2 feet
Twisted pair	20- 2,000 feet	+/-2%	2 feet

DC LOOP RESISTANCE

	Range	Accuracy	Resolution
	0-25 ohm	+/-2 ohm	0.2 ohm

NOISE DETECTION

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

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

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

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

Use these numbers when ordering

Products	Part Numbers	Optional Accessories	Part Numbers	Optional Accessories	Part Numbers
Cable Scanner	3570-00	Token Ring Adapter Kit	3570-01	Euro 220VAC Charger	3570-10
Cable Sender/Tracer	3571-00	StarLAN Adapter Kit	3570-02	UK 240VAC Charger	3570-11
Cable Checker	3572-00	Coax/Twisted Pair Adapter Kit	3570-03		



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.

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