BLACK BOX®
NETWORK SERVICES

MICROSCANNER
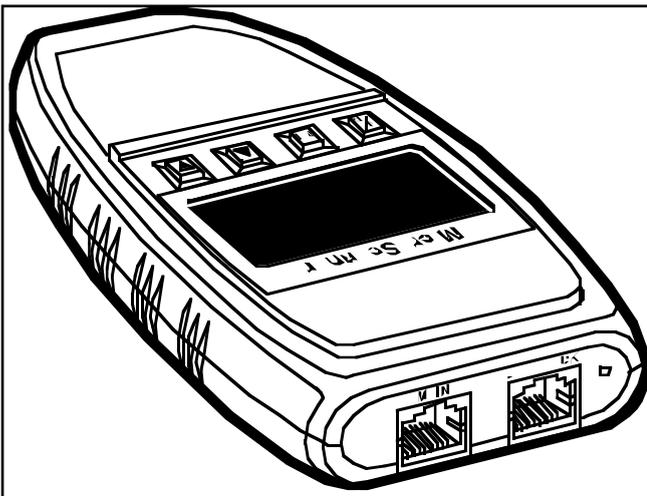
Finally—the comprehensive cable checker for every twisted-pair-cable contractor, installer, and technician.

Key Features

▶ *Checks continuity and wiring configuration.*

▶ *Pinpoints opens, shorts, crossed and split pairs.*

▶ *Measures length, including individual pair lengths.*

▶ *Uses Time Domain Reflectometry to ensure accurate measurements.*

▶ *Generates four distinct tones for locating hidden cables.*

▶ *Pocket-sized.*

▶ *Auto shutoff.*

When you're installing cables, you don't have the time to fumble with a lot of different equipment. You want answers and you want them fast. The MicroScanner from Black Box gives you extensive cable information from a unit small enough to fit into your pocket.

The MicroScanner is the first low-cost cable tester designed for verifying and troubleshooting newly installed cables. It confirms continuity, wiring, and locates cable faults.

The Wiremap function checks to see if your 10BASE-T, Token Ring, and other twisted-pair cabling is wired properly. If it isn't, the MicroScanner will identify the problem and locate the faulty pair. It pinpoints opens, shorts, reversed or crossed pairs, and split pairs. Test results display as a numeric representation on the MicroScanner's LCD screen. If there's a wiring fault, a FAULT indicator is shown on the LCD. And, if a wire doesn't go to the far end, the numeric indicator for the open is left blank, and the word OPEN is shown. The SHORT indicator informs you of shorted pairs .

(*NOTE:* To perform the Wiremap function, you'll need to use the included wiremap [office identifier] adapter at the far end.)

The Office Identifier function finds the termination of an office cable drop in the wiring closet. Just insert the included adapter into an office wall outlet. You can then use the MicroScanner to identify the corresponding cable connection at the patch panel.

The Length function measures all four pairs and displays the results in feet or metres. It also determines whether the cable is open or shorted. Furthermore, you can determine the length of an entire cable if it is connected to a hub.

For accuracy, the MicroScanner uses Time Domain Reflectometry (TDR) for measurements, and it can be calibrated to a cable's Nominal Velocity of Propagation (NVP), which shows how fast a signal travels down a cable compared to the speed of light. The MicroScanner calibrates cable lengths between 50 feet (15.2 m) and 1500 feet (457.2 m), and the NVP factor for a particular cable is shown as a percentage (of the speed of light) on the LCD. This NVP factor is used for all length measurements until the scanner performs another calibration.

The Toner function generates four distinct, audible frequencies, detectable by standard tracer

probes, for verifying continuity through walls, floors, and ceilings. To determine the cable path, you simply trace along the wire using the audible tone as a guide. The different tone sequences display as the numbers 1 through 4 on the LCD.

A handy low-battery indicator warns you when the power is running low. What's more, the MicroScanner turns itself off automatically after 10 minutes of keypad inactivity (or if there's no cable detected), saving battery life.

MicroScanner is designed to withstand input voltage conditions that arise from normal telephony applications such as 48 VDC at less than 80 mA or 24 VAC used to power many keysets. Tests cannot be performed when hazard conditions exist on the inputs. (*NOTE:* The MicroScanner should *not* be used to test live telephone cables.)

When powered up, the MicroScanner keypad flashes a power-up test and goes immediately to the last test mode used. To quickly change pairs or adjust test values, you need only to press arrow keys on the keypad. To choose a mode, push the MODE key.

Along with the LCD and contact keys on its keypad, the MicroScanner has two shielded RJ-45 jacks: the MAIN jack, which you use to connect to your wall outlet; and the LOOPBACK jack, which you use to test patch cables.

Specifications

Display: 1.8"H x 0.9"W (4.6 x 2.3 cm) LCD

Keypad: (4) momentary-contact keys

Length Calibration —
Minimum length: 50 feet (15.2 m); Maximum length: 1500 feet (457.2 m)

Interface:
Main: Modular-8 connector for length, wiremap, office identifier, and toner; Loopback: Modular-8 connector used for patch cable wiremap

Connectors: (2) RJ-45 jacks (shielded)

Temperature Tolerance:
Operating: 32 to 122°F (0 to 50°C); Storage: 14 to 131°F (-10 to +55°C)

Humidity Tolerance: 10 to 90% noncondensing

Power: 9-volt alkaline battery

Size: 5.5"H x 3.3"W x 1"D (14 x 8.4 x 2.5 cm)

Weight: 0.63 lb. (0.3 kg)

Ordering Information

ITEM	CODE
MicroScanner	TS800A

Package Includes

- MicroScanner
- (1) wiremap (office identifier) adapter
- (1) 9-volt alkaline battery
- (1) pocket-size users' guide

Why Buy From Black Box? Exceptional Value. Exceptional Tech Support. Period.

Recognise any of these situations?

- You wait more than 30 minutes to get through to a vendor's tech support.
- The so-called "tech" can't help you or gives you the wrong answer.
- You don't have a purchase order number and the tech refuses to help you.

According to a survey by Data Communications magazine, 90% of network managers surveyed say that getting the technical support they need is extremely important when choosing a vendor. But even though network managers pay anywhere from 10 to 20% of their overall purchase price for a basic service and support contract, the technical support and service they receive falls far short of their expectations—and certainly isn't worth what they paid.

At Black Box, we guarantee the best value and the best support. You can even consult our Technical Support Experts before you buy if you need help selecting just the right component for your application.

Don't waste time and money—call Black Box today.