

MicroScanner² Cable Verifier

MS2-100

Next-generation MicroScanner verifies voice/data/video cable and services with a revolutionary user interface. MS2-100 Includes MicroScanner2 Cable Verifier with main wiremap adapter, multi-language Getting Started Guide, batteries, and Fluke Networks carry pouch.

- **Revolutionary Interface** – graphical wiremap, length, cable ID, and distance to fault displayed on one screen
- **Multimedia Support** – tests all common media types including RJ11, RJ45, Coax, with no need for adapters
- **IntelliTone Toning** – trace virtually any cable or wire pair with IntelliTone digital and analog toning
- **VDV Service Detection** – verifies today's media services, including 10/100/1000 Ethernet, POTS, and PoE
- **Rugged Housing** – integrated rubber holster enhances grip and makes it durable enough for the toughest jobs
- **Oversized Display** – large, backlit LCD makes results crystal clear whether in bright sunshine or in a dark closet

Overview

Streamline verification testing

The MicroScanner2 Cable Verifier presents a revolutionary change in voice, data, and video cable testing. It starts by taking results from what was four different test modes and displaying them all at once – graphical wiremap, pair lengths, distance to fault, cable ID, and far end device. What's more, its integrated RJ11, RJ45, and coax cable test ports support virtually any type of low-voltage cable testing with no need for awkward adapters. The end result is reduced test time and technician error. That makes high-quality installations more efficient than ever.

Rule out service problems fast

Today's communications technicians have a lot more problems to deal with than just the cabling. They have to rule out a whole host of potential cable and service issues before determining the cause of a connection problem. Is there telephone voltage? What's the polarity? Is there an Ethernet switch at the far end? Is PoE available?

MicroScanner2 acknowledges this, giving technicians high power vision to verify today's most common voice, data, and video services. That means faster, more comprehensive troubleshooting.

Features

Revolutionary Interface

Yesterday's cable verification testers force users to toggle between up to four different modes of operation to view all test results. This not only slows the test process, but also causes frustration and leads to high user error rates.

MicroScanner2 has defeated this convention by displaying key test results – wiremap, pair lengths, distance to fault, cable ID, and far end device – all on one screen. Plus it features an oversized, backlit LCD screen with the power to display wiremap results graphically, which brings unprecedented comfort and clarity to the user experience.

Multimedia Support

Tired of losing or breaking all the adapters needed for testing the various voice, data, and video media types?

MicroScanner2 makes these awkward adapters things of the past with built-in RJ11, RJ45, and coax support. Both the main unit and the far-end identifiers can be used to test telephone jacks, Ethernet jacks, and CATV outlets right out of the box. Just one more way MicroScanner2 streamlines cable verification.

IntelliTone Toning

MicroScanner2 features built-in IntelliTone digital and analog toning to precisely locate virtually any cable or wire pair, regardless of work environment. Use digital mode to locate high-grade data cabling (Cat 5e/6/6a) in bundles, or at switches, patch panels, or wall outlets. Digital mode especially performs in environments with high data, RF, or electromagnetic interference. When coupled with the IntelliTone 200 Pro Probe, it can also be used to verify cable wiremap from either the tester end or the probe end.

Use analog mode on voice-grade cabling (Cat 3 and below), as well as coax, security/alarm, and speaker wiring. These cables are optimized for lower frequency transmissions, and therefore are more easily isolated with a low-frequency tone. MicroScanner2's smart analog tone eliminates frustrating guesswork locating individual wire pairs during installations by changing songs each time the pair under test is shorted together. This provides technicians a decisive way to identify individual wire pairs before punching them down or when diagnosing voice transmission problems.

VDV Service Detection

Voice, data, video technicians have a lot more problems to deal with than just the cabling. They have to rule out a whole host of potential cable and service issues before determining the cause of a connection problem.

MicroScanner2 acknowledges this, giving technicians high power vision to detect today's most common service problems. Detect the presence of POTS voltage and verify polarity. Verify powered 10/100/1000 Ethernet switches at the far end. Or, confirm proper PoE voltage and pairs.

Rugged Housing

With all the abuse you put your tools through, you can't afford for them to be delicate. MicroScanner2 features a rubber wrap-around holster that makes it the right tool for even the toughest jobs. Toss it into your toolbox. It can handle it. Plus, it now comes standard with a vinyl carry pouch for enhanced protection and convenience.

Specifications

Specifications

Test Connectors	Twisted-pair: UTP, FTP, SSTP 8-pin modular jack accepts 8-pin modular (RJ45) and 4-pin modular (RJ11) plugs; Coax: F-connector for 75 Ω , 50 Ω , 93 Ω cables
Cable Tests	Length (460 m or 1500 ft. with resolution to 0.3 m or 1 ft.), wiremap to TIA-568A/B standards, remote ID locators; displays results on one screen
Tone Generator	IntelliTone digital tone: [500 KHz]; analog tones: [400Hz, 1KHz]
PoE Detection	Solicits and detects the presence of 802.3af compatible PoE (Power over Ethernet) devices
Ethernet Port Test	Advertised speed of 802.3 Ethernet ports (10/100/1000)
Power Source	Battery type: 2 AA (NEDA 15A, IEC LR6) alkaline batteries Battery life: 20 hours of typical use Other compatible battery types: 2 AA photo lithium, NIMH, NICAD
Dimensions	3 in x 6.4" x 1.4 in (7.6 cm x 16.3 cm x 3.6 cm)
Weight	0.8 lbs. (363 grams)
Display	Monochrome liquid crystal display (LCD) with backlight
Calibration	User-configurable NVP for twisted pair and coax; determines actual NVP with known length of cable
Operating Temperature	32 °F to 113 °F (0 oC to 45 oC)
Storage Temperature	-4 °F to +140 °F (-20 oC to +60 oC)
Operating Humidity	90 % (50 °F to 95 °F; 10 oC to 35 oC)
(%RH without condensing)	75 % (95 °F to 113 °F; 35 oC to 45 oC)
Shock Vibration	Meets requirements for MIL-PRF-28800F for Class 2 random vibration; 1 m drop test with and without wiremap adapter attached
Safety	EN 61010-1 2nd Edition
Altitude	4000 m; Storage: 12000 m
EMC	EN 61326-1
Agency Certifications	N10140 C-Tick EMC standard; FCC Part 15 Class A; CE European Union Directives Pollution Degree 2
Warranty	One year