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networks®

IntelliTone™ Toner and Probe Series

*Every day, cabling installers and network technicians deal with the shortcomings of cable location tools based on 40-year-old analog technology. **Until now.***

*The **IntelliTone™ Toner and Probe Series** from Fluke Networks gives you digital signal locating technology that's as advanced as the systems you work with. IntelliTone is a breakthrough solution – and the only solution – that locates and isolates the most elusive, hidden or bundled voice, data and video cables quickly and reliably – even on active networks.*

IntelliTone breakthrough digital signaling

Only IntelliTone Toners and Probes bring the performance breakthrough of digital signal technology to common problems that come up in installing, maintaining, changing and troubleshooting your network.

- Eliminates confusion over cable location; decisively rejects noise and false signals
- Locates the correct cable bundle
- Isolates a cable within the bundle, despite cable bleed
- Validates twisted-pair installation with visual end-to-end cablemap (opens, shorts and reversed pairs)
- Identifies, diagnoses and troubleshoots telecom/datacom services
- Simplifies signal interpretation in noisy environments with multiple LED indicators

Locate cables quickly and easily

Fluke Networks has applied decades of cable test engineering expertise to the science of locating copper cables. The result is what we call IntelliTone technology – a smart digital signal-toning and signal-interpreting process that rapidly zeroes in on cables.

IntelliTone technology energizes cable conductors with a smart, sychronized digital signal. Multiple tone types occur in the signal that help you to:

- LOCATE the correct cable bundle using maximum radiation.
- ISOLATE a cable within the bundle using a signal with minimum radiation.
- VALIDATE cable conductor continuity with an automated signal that steps through each conductor.

Locate hidden cables

One of the toughest, most time-consuming parts of locating a cable has been in tracing its path through walls, ceilings or wiring closets. The IntelliTone smart digital signal features a LOCATE tone that provides maximum radiation, allowing you to quickly locate hidden and hard-to-find cabling.

Technical Data

Finds the Cables the Others Can't

Isolate the right cable – fast

Cabling installations have become increasingly complex, which has made cabling increasingly difficult to locate with analog technology.

When cables are run together for even short lengths, a signal from one can bleed over to another. One cable might carry the original signal; other cables might carry the signal as a result of bleed. Isolating cables with analog tools requires guesswork, training, time for repeated testing – and even the best efforts often result in mistakes.

The smart digital signal processing in the IntelliTone Probe clearly identifies this unique signal with audio and LED visual indicators. IntelliTone eliminates hours of cable confusion.

Overcome noise – and save hours of time

Fluorescent lights, machinery, computer monitors and electrical wiring all produce noise that slows down cable location. Together, the IntelliTone Toner's synchronized digital signal and the IntelliTone Probe's microprocessor controlled signal identification technology reject noise and false signals to clearly identify cable location. This can save you hours every week on cable location projects.

Tone on live networks quickly and safely

Modern network devices use common mode termination for cables connected to their ports. This reduces noise and crosstalk in the cable but this can also absorb an analog toner signal. Unlike analog signals, the IntelliTone digital signal stays strong despite common mode termination. And the IntelliTone Toner automates toning individual cable conductors, making it quick, efficient and safe to locate cables on active networks.

Validate conductor continuity with cablemap

Eliminate callbacks during cabling moves, adds and changes with the powerful diagnostic capabilities of IntelliTone™. The IntelliTone 200 Probe features a Cablemap capability that identifies common cable miswires in twisted pair cabling. IntelliTone technology automates the testing of each conductor for end-to-end continuity; LED lights and tones clearly indicate miswires.

Identify and troubleshoot cable services

Service – Is the RJ45 jack a datacom jack, a phone jack – or a dead jack? IntelliTone 200 Toner LEDs clearly identify common datacom and telecom services found on today's networks including 10/100/Gigabit Ethernet links. LEDs clearly identify common services found on today's networks, including telecom and datacom services and 10/100/1Gb Ethernet links.

Telecom troubleshooting – Detect Line 1 voltage, polarity, and ring with IntelliTone 100 and 200 Toners. The IntelliTone 200 Toner adds Line 2 troubleshooting. Confirm telecom circuits with the built-in talk battery capability.

Continuity – Once you've located a cable, the next step is to validate cable conductor continuity. IntelliTone 100 and 200 Series Toners make it easy – eliminating the need for a separate diagnostic tool.

IntelliTone provides robust toning into active network equipment while eliminating cable misidentification due to bleed
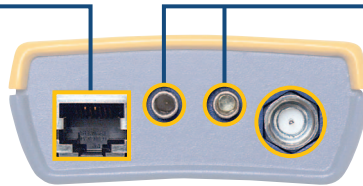
Banana jacks allow you to use only the leads that you need and allow easy replacement.

One tool supports all VDV cable types (RJ45, RJ11, coax, and bare wire

Test cable continuity, eliminating need for separate diagnostic tool

Identify and diagnose POTS with multi-line Telco detect, polarity and ring indication (Line 1 and Line 2)

Identify and diagnose Ethernet link connectivity with NIC/hub indication

Cable termination indicator, identifies if cable is connected or not
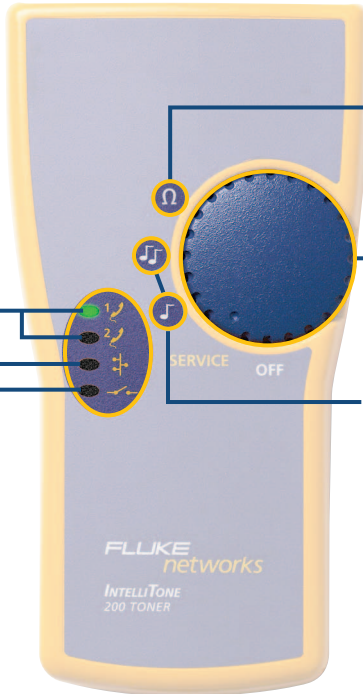
Knob provides **simple, task oriented operation**

Choose between **one-note or two-note tones**

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INTELLITONE 200 TONER

SERVICE   OFF

Test cable continuity – eliminating need for separate diagnostic tool

Multiple-level LEDs simplify signal interpretation in noisy environments. Visually steps through wiremap tests (200 only).

Time-saving thumbwheel lets you select desired toning mode on the probe rather than toner

Plug (200 only) works with CableMap function – eliminating the need for a separate wiremap tool.

CABLE MAP

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INTELLITONE 200 PROBE
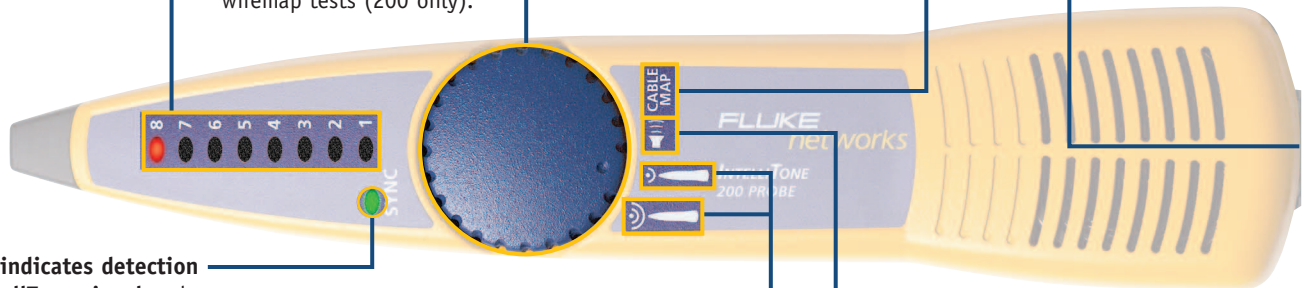
SYNC

SYNC indicates detection of IntellTone signal and shows battery status at power-up

Choose between two digital toning signals:
– lets you locate cables at a distance
– lets you isolate cables in bundles or at patch panels

IntelliTone probes sense legacy analog signals for **full backwards compatibility**

Toner and Probe shared features:

IntelliTone digital technology with advanced signal processing provides **high-resolution measurement**

Auto-Off feature: The toner turns off automatically after 2.5 hours of inactivity. Probe turns off after 1 hour of inactivity.

Battery status: 3-level battery status indicator LEDs on the toner and probe light for one second at power on

Analog toner/probe compatible – IntelliTone Toners generate 1 KHz compatible legacy analog tones that analog audio probes can detect; and IntelliTone Probes sense legacy analog signals for full backwards compatibility

Specifications

General		
General	Operating temperature*	32 °F to 104 °F (0 °C to 40 °C)
	Storage temperature	-4 °F to +140 °F (-20 °C to +60 °C)
	Operating relative humidity (% RH w/o condensation)	95 % (50 °F to 95 °F; 10 °C to 35 °C)
		75 % (95 °F to 104 °F; 35 °C to 40 °C)
		Uncontrolled < 50 °F (< 10 °C)
	Vibration	Random, 2 g, 5 Hz-500 Hz
	Shock	1 m drop test with and without module
	Safety	EN 61010-1 1st Edition + Amendments 1, 2
	Altitude	3000 m
	EMC	EN 61326-1
	Battery type and life	9 V alkaline (NEDA 1604A or IEC 6LR61); 20 hours typical
	Applications	Copper cabling media, including shielded (STP) and UTP cable; 75 or 50 Ohm coaxial cable; two conductor control, security, generic cabling. 10 Base-T or 10/100/1000 Base-T datacom networks. POTS telecom service.
	Legacy tone	Create and detect 1000 Hz compatible tone
Toner	Dimensions	5.54 in x 2.94 in x 1.25 in (14.1 cm x 7.5 cm x 3.2 cm)
	Display	LED
	Control	Thumbwheel switch
	Toner interface	Main Mod8 port for tone generation on all 4 pairs of UTP / STP cabling
		F connector for coaxial cabling
		Banana jack plugs (2) - two conductor wiring
	Toner frequency	IntelliTone signal: encoded digital signal
	Talk battery voltage	6 V into 600 W
	Output power	5 V p-p
	Voltage protection	100 V
	Auto power down	Turns off automatically after 2.5 hours of inactivity
Probe	Dimensions	8.73 in x 1.88 in x 1.26 in (22.2 cm x 4.8 cm x 3.2 cm)
	Display	(8) LED indicators, Synch LED indicator
	Audio	Microprocessor controlled audio files
	Control	Thumbwheel switch, volume control wheel
	Tone detection	Detects IntelliTone digital signal and 1 kHz signal from analog toners
	Toner interface	Main Mod8 port for cablemap on all four pairs of UTP / STP cabling
	Auto power down	Turns off automatically after one hour of inactivity

Ordering Information

Model Number	Items Included
MT-8200-60A	**IntelliTone 200 Kit** Includes IntelliTone 200 Toner and 200 Probe, coax F connector adapter, two RJ11 and two RJ45 patch cables, test leads with alligator clips, lanyards, owners CD and quick start guide, two 9 volt batteries
MT-8200-50A	**IntelliTone 100 Kit** Includes IntelliTone 100 Toner and 100 Probe, coax F connector adapter, RJ11 and RJ45 patch cables, test leads with alligator clips, lanyards, owners CD and quick start guide, two 9 volt batteries
MT-8200-61A	**IntelliTone 200 Toner**
MT-8200-51A	**IntelliTone 100 Toner**
MT-8200-63A	**IntelliTone 200 Probe**
MT-8200-53A	**IntelliTone 100 Probe**
IntelliTone Toner and Probe Accessories	
MT-8202-05	**IntelliTone Case**
MT-8203-20	**Test Leads with Bed of Nails**
MT-8203-22	**Test Leads with Alligator Clips**

IntelliTone 100 Kit

• Finds the cables the others can't
• IntelliTone smart digital signal processing rejects noise and false signals
• Audible, visual signal indication simplifies cable location in noisy environments
• Tones safely and clearly on active networks
• Diagnoses essential cable information with polarity, continuity, and talk battery
• Identifies and diagnoses POTS with Line 1 service & polarity

IntelliTone 200 Kit (Adds the following functionality)

• Identifies and diagnoses 10/100/1 Gb Ethernet link connectivity with NIC/hub indication
• Identifies and diagnoses POTS with Line 2 POTS service and polarity
• Validates twisted-pair installation with CableMap capability which identifies common cable miswire

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