

CableScout® TV220

TDR Cable Tester for CATV

*For all your digital broadband coax testing needs...
the best just got better!*

The new and improved CableScout® TV220 from Greenlee Communications delivers all the enhanced features that CATV and Telco technicians and network administrators have been asking for in a TDR for CATV applications. The TV220 finds faults other cable testers can't and it is so easy that anyone can use it.



- **Easier-to-use GUI interface requires little or no training**
- **PC application is compatible with all the current operating systems**
- **Improved clarity and trace functionality makes it even easier to identify faults on-screen and determine noise versus the fault**
- **Even higher SNR and Resolution makes it easier to identify events that were previously difficult or impossible to find**
- **Zero dead zone at the launch allows the user to see faults immediately**
- **Improved trace update rate allows you to see changes to the fault faster (5 times/sec. versus 2 times/sec.)**
- **Higher capacity to hold traces**
- **USB interface for trace download**
- **Lighter weight and longer charge life with the new lithium-ion battery**
- **TestWizard™ one-button testing**
- **Automatic Return Loss Measurements**
- **Automatic Multiple Event Marking**
- **High-Resolution, Short Pulse Width (1 ns)**
- **Rugged enough to withstand a 2 meter drop**



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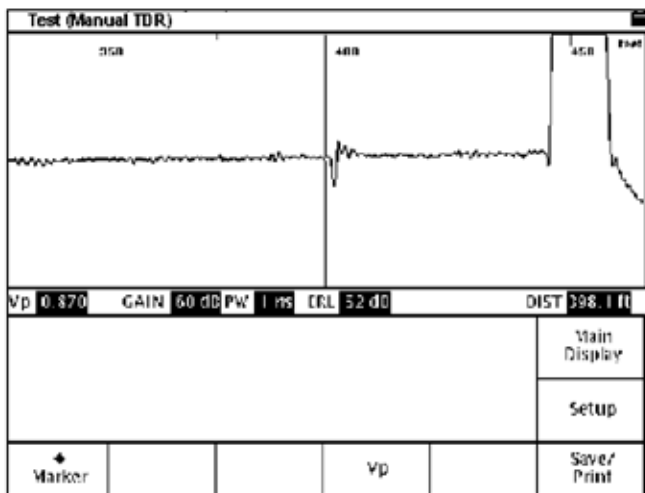
The only TDR for Digital Services

High bandwidth, high resolution, high SNR and ease of use make the TV220 the only logical choice for digital services. The TV220 tests more of the capacity of your cable, finds faults that are closer to the end and finds faults that are closer together than any other TDR available.

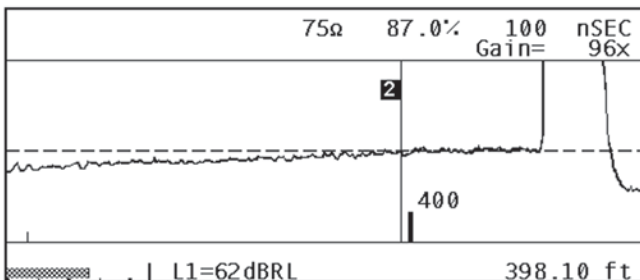
The CableScout® TV220 can find those really tough-to-identify problems too, and it's easy (see examples below). A high performance TDR doesn't have to be difficult to use. This one makes even the first-time user look like a pro.

The Advantage of High Bandwidth and High SNR

The two displays below demonstrate the TV220 advantage. Both traces were taken on the same cable which had a small amount of sheath damage. This type of damage affects only the performance of the higher channels in a CATV system. The trace on the top (measured with the TV220) clearly shows the damage located at 398 feet. The second trace on the bottom (measured with another TDR) doesn't show the event.



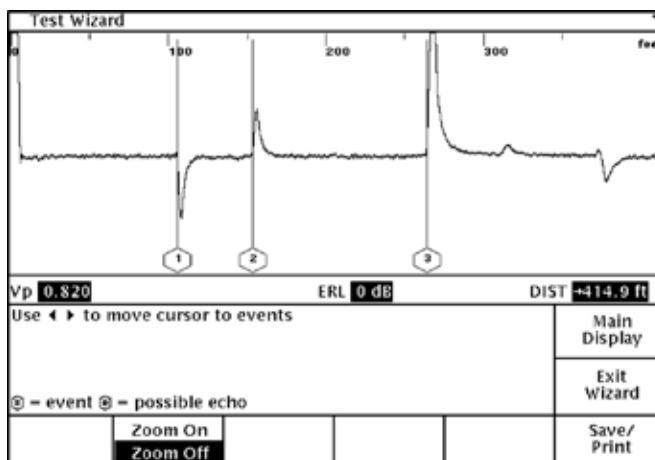
TV220 Cable test clearly shows the fault at 398 feet.



Typical TDR test misses the fault completely.

TestWizard™ Testing: Automatic One-Button Testing

TestWizard™ Testing automatically finds multiple faults on coax cable. There's no longer a need to interpret the results; they're clearly marked. TestWizard™ testing automatically adjusts and optimizes gain, averaging, and pulse width to provide the best possible resolution while maximizing the instrument's ability to find all the problems on your cable – even small problems missed by most other TDRs. All you do is press the TestWizard™ button, select the cable type, length, and number of events to display; then view the results. If you want to measure the Return Loss of an event, simply jump the cursor to the event, and CableScout® TV220 automatically reports the Return Loss. Technicians no longer have to be afraid of erroneous or unreliable results with a TDR. CableScout® TV220 with TestWizard™ testing makes every user an expert!



TestWizard™ Testing automatically marks faults.

Ordering Information

(R) = REPLACEMENT PART (A) = ACCESSORY

CAT NO.	UPC NO.	DESCRIPTION	QTY.
TV220	00676	TDR for CATV Broadband	1
TV220-0350	17404 (R)	Soft Carrying Case	1
1155-1010	25877 (R)	Power Supply, AC-DC	1
174173401	16407 (A)	Vehicle DC Adapter/Charger	1
174326900	16414 (R)	Replacement Power Cord	1

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CableScout® TV220

Specifications

Output

Test Signal Output – 1/2 Sine
Amplitude – 4V into 75 Ω
Pulse Width – 1 ns, 5 ns, 25 ns
Output Impedance – 75 Ω
Acquisition System Bandwidth – 400 MHz

TestWizard™ Testing

Automatically marks faults. Operator choice of three levels of event marking:
Mark largest event
Mark three largest events
Mark all events

Return Loss –

Automatic at cursor location
Resolution: ± 1 dB
Input Protection – ± 400 VDC + peak AC up to 440 Hz, 30-second duration
Maximum Distance Range – 12,000 ft. (3,658 m), depending on cable type and condition
Gain – 0 to 72 dB
Waveform Storage – Minimum of 20 waveforms with notes

Distance Accuracy –

Feet:
0 to 2,000 ft.: ± 2 ft. \pm uncertainty in Vp
2,001 to 6,000 ft.: ± 3 ft. \pm uncertainty in Vp
6,001 to 12,000 ft.: ± 4 ft. \pm uncertainty in Vp
Meters:
0 to 610 m: ± 0.6 m \pm uncertainty in Vp
611 to 1830 m: ± 0.9 m \pm uncertainty in Vp
1831 to 3658 m: ± 1.2 m \pm uncertainty in Vp

Display –

Resolution: 640 x 440 (281,600 pixels)
Size: 7.2 inch
Type: High contrast LCD
Backlight: Operator switchable
Waveform Display Resolution – 0.33% of selected range, 4.5 cm (0.15 ft.) minimum
Display Ranges – Twelve display ranges from 6 ft. (1.8 m) to 12,000 ft. (3,658 m), plus single-button zoom window
Output Port – Serial 9-pin D type connector
Distance Measurements – Meters, feet, nanoseconds

General Characteristics

Environmental, EMC, Safety

Temperature –

Operating: -10° C to $+40^{\circ}$ C ($+11^{\circ}$ F to $+104^{\circ}$ F)
Non-operating: -20° C to $+60^{\circ}$ C (-4° F to $+140^{\circ}$ F)
Humidity – 10% to 95% (non-condensing)
Field Usage – Shock, water, and dust resistant
Durability – Survives drop of 2 meters (6 ft.) to concrete in standard soft case. Drip proof, dust resistant

EMI Emissions –

EN55011, Class A
EN60555-2

Safety –

CE (Low Voltage Directive)



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Power

AC Operation –

Voltage Ranges: 110 V, 220 V, or 240 V with appropriate AC to DC adapter
Line Frequency: 50 Hz to 60 Hz

DC Operation –

Voltage Range: 9 to 16 VDC @ 1A (charging and operating)

Battery Operation –

Type: Internal Li-Ion rechargeable battery
Operating Time: Typically 12 hours continuous operation (backlight off)
Battery Savers (user selectable) –
Shutoff: 5 to 30 minutes or disabled
Backlight: Shutoff 5 to 30 minutes, disabled, or always on

Physical

DIMENSIONS	CENTIMETERS	INCHES
Height	24	9.5
Width	30	11.5
Depth	9	3.5
WEIGHT	KILOGRAMS	POUNDS
Net	3	6.4

Warranty

One year

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