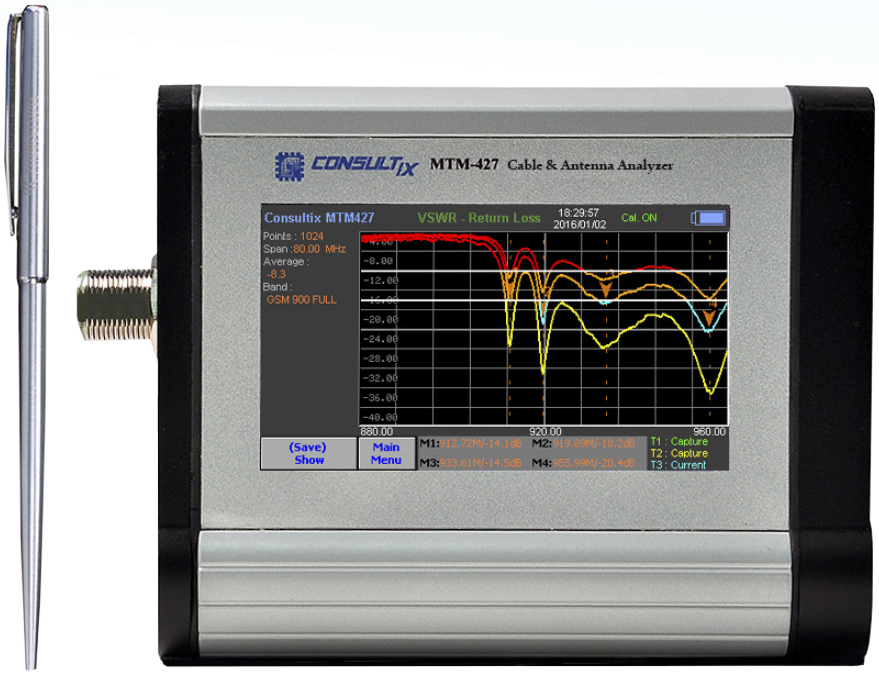
Consultix's SiteWizard™ Cable and Antenna Analyzer

High-End performance in an extremely compact and rugged form



The SiteWizard™ is Consultix's next generation of ultra-portable field test equipment. Engineered for maximum convenience in the field without sacrificing precision and accuracy.
The MTM-427 is the first cable and antenna analyzer in its class to feature both quick and precise sweep testing along with a spectrum analyzer option all in a lightweight shock-protected unit.

The SiteWizard™ fulfills the specific requirements of installation and maintenance teams, eliminating the need for handling heavy, bulky and expensive testers.

Smart

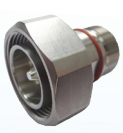
- Spectrum Analyzer Option
- Channel Power Measurement Mode
- Friendly Touch-Interface
- 1 Second Calibration & Measurements
- Internal & External Storage
- Professional Reporting Software
- Cable & Band Database

Fit

- Lightweight: 700g (1.5 Pounds)
- Heavy Duty Construction
- Industrial 4.3" Touch Screen
- RF & Shock Protection
- Industrial RF Ports
- Global Stock Delivery
- Quick Service Programs

Specifications:	
Measurement Modes	VSWR, Return Loss, DTF, Cable Loss and optional Spectrum Analyzer
Frequency Range	400 MHz to 2700 MHz (optional 100 MHz to 3200 MHz)
VHF / Public Safety Bands	**Option: MTM-427-V-K**
	Frequency extension down to 100 MHz and up to 3200 MHz
General RF Characteristics	
Internal Frequency Accuracy	2.5 ppm
Frequency Resolution	1 KHz
Max. input Power (protection)	33 dBm (1 Watt Continuous Wave , 2 Watt Peak)
Interference Immunity	10 dBm on Channel, -5 dBm on Frequency
Reflection Measurements	
VSWR Range	1-65
Output Power	0 to -5 dBm
Return Loss range	0-60 dB
Return Loss resolution	0.01 dB
Measurement Speed	≤ 1 msec/data point @ 1024 points ≤ 2 msec/data point @ 512, 256 and 128 points
Accuracy	42 dB (Calibration kit Return Loss)
DTF	
Range	0-1000 meter (according to cable type)
Vertical Range (VSWR)	1-65
Vertical Range (Return Loss)	0-60
Vertical Resolution	0.01
Spectrum Analyzer Mode	**Option: MTM-427-SA-K**
Frequency Range	400 MHz to 2700 (100 MHz to 3200 MHz with MTM-427-V-K option)
RBW	16 KHz, 100 KHz, 250 KHz and 500 KHz
Power Range / Sensitivity	0 dBm to - 112 dBm (DANL @ 2GHz. 100KHz RBW)
Channel Power Mode	Total RF power measurement within a user defined range
Setup	
Simultaneous Traces	Up to 3
Markers and Limit Lines	4 Markers, Delta Markers, 2 Limit Lines and Peak and Minimum Search
Windowing	Rectangular and Blackman
Cable	Cable Type, Propagation Velocity, Cable Loss and m/ft
Data Points	128, 256, 512 or 1024 Points
Others	Auto Scaling, Pre-set Cable List, Pre-set Regional Bands List and Limit Lines
Memory	
Type	Internal (1000 trace) and External USB Storage
Save/Recall	Measurements and Screenshots
Battery and Power Supply	
Battery operation time	>8 Hours: Normal mode (with continuous sweep operation) >4 Hours: High immunity mode (with continuous sweep)
Charger	Input: 100-240V AC, 50-60 Hz / Output: DC12v-2A
Physical and Environmental	
Enclosure	Industrial Heavy-Duty Aluminum Enclosure
Display	4.3" TFT, LCD Touch Screen
Ports and Interfaces	N-type Female, 2 x USB and DC input
External Dimensions	L163 x W118 x H36mm
Weight	< 700 gm (1.5 lbs.) incl. battery
Operating Temp	-10 to +50 C
Ingress Protection	IP45 with optional shock absorber and shoulder strap
Standard Package	Tester, heavy-duty hard carrying case, charger, 8 GB USB memory, calibration certificate, User Manual Stylus pen and Site Auditor reporting Software for PC.
Optional Accessories	Choose from our variety of high precision calibration kits, adapters and launch cables.

Accessories Available



Find us:
Building 57A, 2nd district, 6th area, El-Teseen st.11835, New Cairo, Egypt.
+2 02 25647370 info@consultixwireless.com