SIG7000

Ultra-Precision Cable Fault Locator

Our **TDR** technology ensures industry-leading accuracy for checking and monitoring cables across complex and reliable networks, including detecting small, under-represented cable failures and small changes in cable state.

SIG7000 can be used to measure all types of metal cables that have at least one pair of core.

Available Power Bank Battery

USB type Adapter

7-inc High-Res Screen

WAVE MATE™ Support

CE **RoHS** Compliant KC

Support WAVE MATE™ Easy report & Sharp waveform analysis

Designed to perform in harsh environments with a dust-proof (**IP68**) structure

Charge and transfer files simultaneously via the integrated **USB** port

7-inch high-resolution color **LCD** (800*400)
Allows you to save the "**Smart Capture**" feature quickly and easily

Outstanding accuracy and industry-leading ultra-precision resolution

Provides an easy-to-use **GUI** and **UX**

Measurement
- Pulse : 250ps ~10ns
- Accuracy : ± 1cm
    @ coaxial cable
- Resolution : 0.5mm
    @ coaxial cable

User friendly
- User-friendly interface
- Automated report delivery
- Smart capture capabilities

Smart
- Integrated USB ports allow charging, and data transfer simultaneously

Multi use
- Precision cable testing
- Diagnosis of fine cable faults
- Comparative analysis of Cable status

An unplanned failure or problem in cables, one of the vital parts of modern industrial society, has enormous economic implications and is hazardous to the entire industry. Over the past few years, industrial sites are gradually experiencing issues caused by fine-grained failures that existing equipment can't detect.

We are proud to offer the industry's highest accuracy for checking and monitoring cable status in complex networks, including the capability to identify small changes in cable status or micro cable failures by adopting a new iteration of Time Domain Reflectometry technology. It is suitable for all types of metal cables that have more than one pair of core wires. **SIGNATRIC's** ultra-precision cable waveform analyzer (Model No. : **SIG7000**) is based on our high-precision TDR technology and senses small changes in cables that are not easily visible to the naked eye through the lowest output pulse of **250ps**. The **0.5mm** resolution enables the **SIG7000** to display any problem that appears as a fine mesh on the large screen. The **SIG7000** makes it possible to locate, identify, diagnose, and address problems in your infrastructure in real-time.

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Specifications

Performance	Range	10cm ~ 300m (@ coaxial cable)
	Max. Display Resolution	0.5mm
	Max. Vertical Resolution	122uV
	Accuracy	±1cm (@ coaxial cable)
	V.O.P Setting	10.00 ~ 99.99% (in 0.01% step)
	Pulse Width	250, 500ps, 1, 2, 3, 4, 5, 10ns
Interface	Display	7inch, 800 x 480 TFT Color LCD(with backlight)
	Output Impedance	50Ω
	Dynamic Range	84dB
	Input Bandwidth	4.8GHz (@2Vpp)
	Input Protection	500Volts (AC+DC)
	Internal Memory	8G Byte
	Effective Sampling Rate	50GS/s
	Max. Waveform Storage	500ea
	Connector	BNC Female
	Refresh Rate	5 times/sec
	Communication Port	USB A
Power	Internal Battery	3.6V Li-ion battery pack (26,000mAh)
	Power Consumption	6W (at 50% LCD brightness)
	Adaptor	USB A
	Operation time	6hrs
	Recharge time	Approx. 8hrs
Environment	Operation Temperature	-15°C(+5°F) ~ +60°C(+140°F)
	Storage Temperature	-20°C(-4°F) ~ +70°C(+158°F)
	Humidity	Less 95%
	Size	300mm x 249mm x 119mm
	Weight	3.2kg
	Warranty	1 year from date of purchase

※ Specifications subject to change without notice.

Application

SIGNATRIC Ultra Precision Cable Fault Locator (Model: **SIG7000**) is widely used not only for traditional post-diagnosis but also in many areas where the detection of subtle changes is required, thanks to its outstanding performance.

Power/Electricity

Power Plant

Smart Factory

Communication

Network

Monitoring

Transportation

Vehicle

Ship

Construction

Public Infrastructure