SIECOM Diagnostic Apparatus in Utility

SDA-200

Diagnosis device for distribution line specialized in vehicle usage.

SDA-200 device developed from **SIECOM** is designed to detect ultrasonic signals emitted from distribution line with insulated problems with specialized in vehicle that is running fast as 30km/hr.

Accuracy and efficiency of **SDA-200** are immensely innovative and can significantly reduce required time and cost for diagnosing degraded equipments.

SDA-200 is designed to convert inaudible ultrasonic signals to audible signals and able to display signal levels and further more, it is designed to distinguish fault area by using image processing for anyone. Also, a fault status image saving, image decipher, ultrasonic signal saving, play recorded ultrasonic signals and GPS information of fault equipment are all integrated implemented in SDA-200.

SDA-200 is innovative software program that supports data saving, manage and make report based on diagnosis data by adjusting and saving.

SDA-200 is ergonomically designed to reduce fatigue for long period usage and has excellent portability.

Components

Main Device

When input signals brought with image ultrasound collector have transmitted through module circuit, it converts into audible frequency and displays image, audio, data and etc to help user for better understanding.

Image Ultrasound Collector

Horn shaped collector is built with ultrasonic sensor, amplifier circuit and protection circuit to minimize surrounding noises when receiving signals from degraded equipment.

Case

LP Insulator Crack   COS Arcing   Suspension Insulator Broken
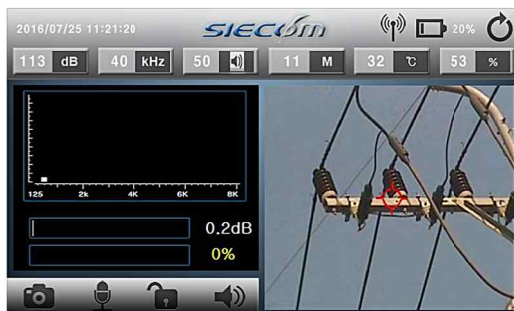
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Specifications

SDA-200

Item	Specifications
Storage range	-25℃ ~ 70℃
Operating range	-15℃ ~ 60℃
Power Used	5.2W(max)
Working Voltage	DC 15V ~ DC 18V input
Battery Type and Capacity	Rechargeable lithium-ion 4*2cell (5200mAh)
Standard Usage Time	Continuous use : 9 hours or more Power saving mode : 10 hours or more usage time varies depending on the charge condition and usage environment
File Storage Capacity	Support USB 2.0 , SDHC card
Frequency	20 ~ 150kHz
Frequency	Programmable Filter
Sensitivity	0 ~ 140dB
Sensitivity Adjustment Method	AGC Amplifier(Auto Gain Control Amplifier)
Display Mode	Real Time, Peak Hold, Snap Shot
dB Conversion Algorithm	FFT(Fast Fourier Transform) algorithm
Display Function	Battery level, dB(segment bar graph), time, measurement mode, measurement frequency, measurement sensitivity
Audio Conversion Method	Heterodyne method
Size	Main Device 158mm * 217mm * 65mm(H) Image Ultrasound Collector Ø82.5mm , 338mm
Weight	Main Device : 1500g Ultrasound Collector : 550g
Enclosure Material	ABS

Android

Built with Android OS for
high quality performance and resources.

Color TFT LCD

Built with HVGA(800x480) wide screen full
color LCD for guaranteed visibility.

Li-ion Battery

Using 14.8V/5,200mAh Li-ion battery to avoid
memory effect and to maintain stable power.

Main Menu

Diagnosis

Photo Viewer

Playback

GPS