Wireless LAN Monitoring Device WM-100

Helps Keep Your Wireless LAN Environment Stable

WM-100 collects radio data from wireless networks of IEEE 802.11a/b/g/n/ac and visualizes your wireless LAN environment with the dedicated software Wave Navigator. Its radio measurement and visualization features allow WM-100 to be placed anywhere in your environment.
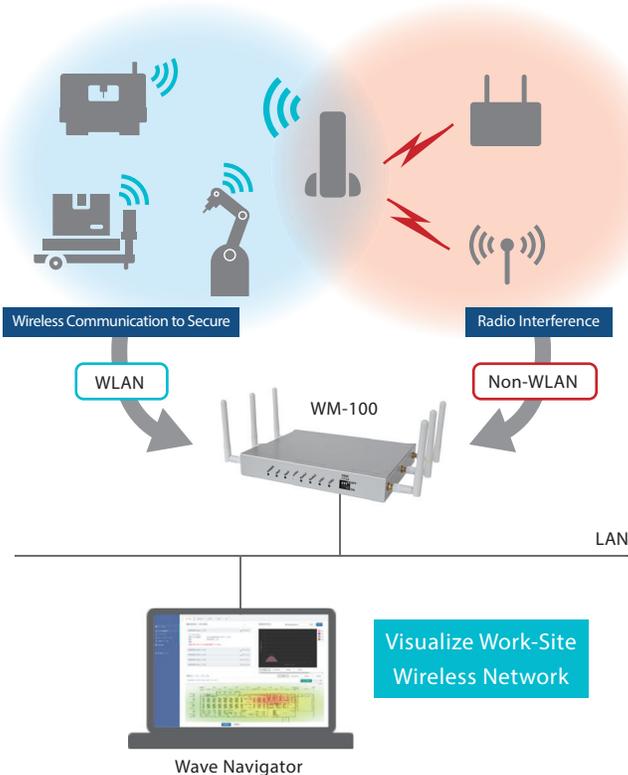
WM-100 also carries a spectrum analyzer function to measure WLAN and non-WLAN transmissions. This product monitors WLAN transmissions that constantly fluctuate in specialized environments, such as factories and warehouses, to help you improve communication quality.

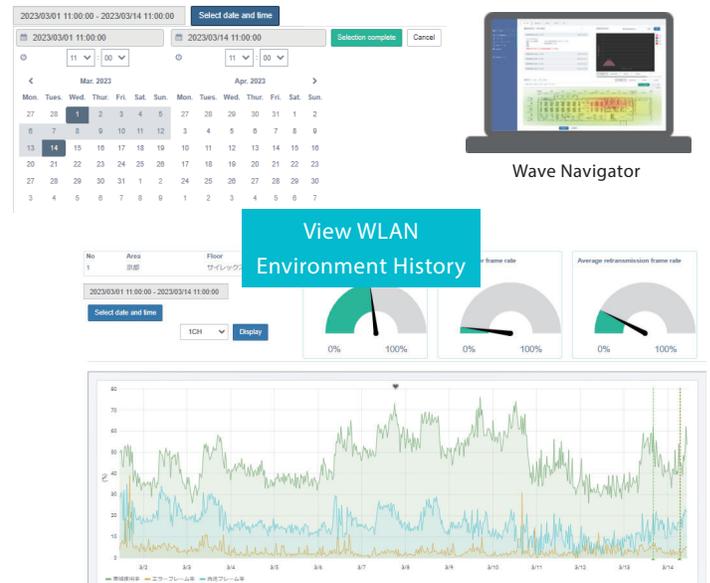Wave Navigator

◾ Features

Visualize Work-Site WLAN

WM-100 collects data from on-site via LAN, then sends to the Wave Navigator software. This provides operators visibility of the wireless communication statuses remotely from anywhere.

Wireless Communication to Secure

Radio Interference

WLAN

Non-WLAN

WM-100

LAN

Visualize Work-Site Wireless Network
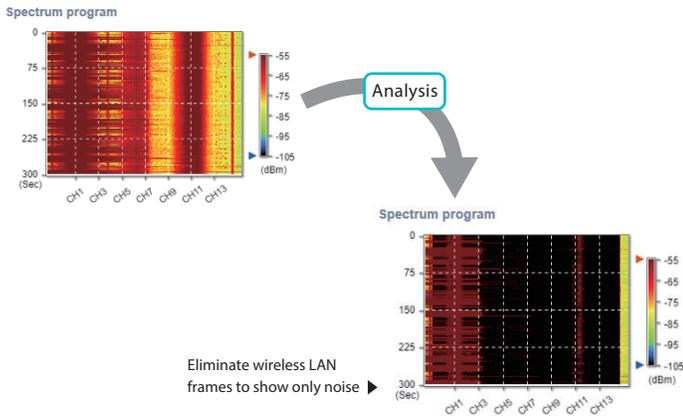
Wave Navigator

Trace Radio Transmissions

Wave Navigator stores the received WLAN information and displays the history of signals, used wireless bands, and signal strengths of devices in the network.

Wave Navigator
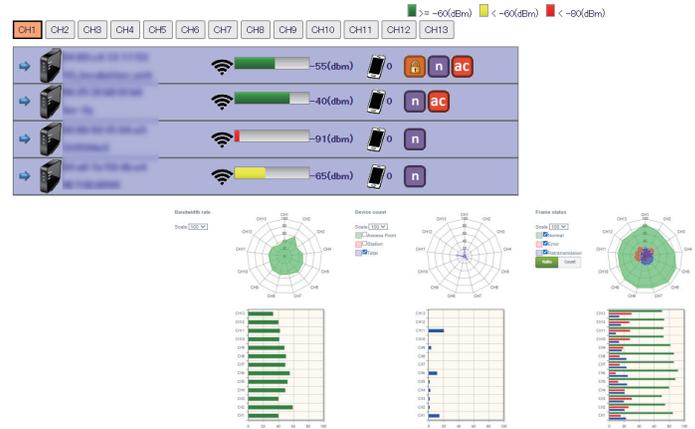
View WLAN Environment History

Spectrum Data

WM-100 analyzes radio signals in the 2.4 GHz and 5 GHz bands. The signal data is presented in a graph, which can provide noise-only data by eliminating wireless frames.

Spectrum program

Analysis

Spectrum program

Eliminate wireless LAN frames to show only noise ▶

Wireless LAN Survey

The interface shows the wireless information per band, which enables you to detect non-managed access points and tethering devices and check channel congestion.

WM-100 Product Spec

Model Number	WM-100
Wired LAN Interface	RJ-45 x3 (802.3af PoE supported x1) 10BASE-T / 100BASE-TX / 1000BASE-T (Auto-recognition)
Wireless LAN Interface	IEEE802.11a/b/g/n/ac Monitor Mode x2 2.4 GHz: Channels: 1 to 13 5 GHz: Channels: 36 to 48, 52 to 64, 100 to 140, 149 to 165
Device Interface	USB x2 (USB2.0 Hi-Speed Type-A) [*1, *2]
Switch	Push Switch x1 DIP Switch (4-bit) x1
LED	Body x8 RJ-45 x6
Operating Environment	Temperature: 0 to +40℃ Humidity: 20 to 80%RH (No condensation)
Storage Environment	Temperature: -10 to +50℃ Humidity: 20 to 90%RH (No condensation)
Power Supply	AC Adapter: 100-240V 50/60Hz
Max Power Consumption	10.56W (DC12V 0.88A) excluding USB bus power [*3]
External Dimensions	200 × 158.5 × 30 mm (Body only without antennas)
Weight	530g (Body)
Included Items	Body, AC adapter, AC code, Antennas x 6, GPL information sheet
Regulatory Compliance	FCC Part15 Subpart B Class A, ICES-003 Class A, EU RoHS
UPC Code	815608001911
Warranty	5 years

Wave Navigator Software Spec

Product Name		Wave Navigator
Supported Browser		Google Chrome
Language		Japanese / English
Communication		HTTP
Ports in Use		3000, 8080, 8086, 8090
Server Requirements	OS	Windows Server 2016 (64-bit) Windows 10 IoT Enterprise (64-bit) Windows 10 Professional (64-bit)
	CPU	Intel Core i5 or higher
	Memory	4 GB or more
	HDD	1 TB or more capacity required

*Note:
1. The bus power supply current is 500 mA.
2. Only USB 1 works for the function. Insert a storage device to USB 1 to save wireless LAN frames.
   (Wave Navigator does not visualize the stored data.)
3. For stable operation with a USB device, use an AC adapter that comes with the USB device.

Contact Silex Support for any questions and/or inquiries about the product.

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