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## PRESS RELEASE

### **Anritsu Introduces the Industry's First Handheld Measuring Device for DVB-T/H Digital Terrestrial Broadcast Signal Analysis**

#### **MS8911A/50 DVB-T/H Analysis Software for MS8911A Digital Broadcast Field Analyzer**

Anritsu Corporation (Hiromichi Toda, President) brings greater functionality to the MS8911A Digital Broadcast Field Analyzer with the MS8911A/50 DVB-T/H Analysis Software for analysis of DVB-T/H digital terrestrial broadcast signals. (DVB-T/H is a format used widely in Europe; see note below.) The MS8911A/50 Analysis Software goes on sale January 27.

Installing MS8911A/50 Analysis Software makes the MS8911A the first handheld type measuring device in the industry to be able to perform spectrum/signal analysis of DVB-T/H digital terrestrial broadcasts. When checking reception condition and performing maintenance on broadcasting equipment, all measurements can be made without having to transport a bulky measuring station.

Anritsu continues to pursue innovative solutions for DVB-T/H digital terrestrial broadcasting.

#### **DVB-T/H Digital Terrestrial Broadcast**

DVB-T/H, which stands for Digital Video Broadcasting, is a digital terrestrial format used in several countries in Europe and elsewhere. DVB-T (Terrestrial) was developed for fixed reception while DVB-H (Handheld) was developed for mobile terminals. Transmission parameters differ from one country to the next depending on the bandwidth and carrier type (carrier wavelength).

### **Development Background**

In contrast with Japan, where the ISDB-T format has been adopted, in Europe the DVB-T format has gained broad acceptance and continues to make headway. The DVB-H format, which is in the early stages of development, would permit mobile terminals to receive digital transmission. Already, test transmissions are being performed and broadcasting and relay centers are being built in several countries.

Broadcasters measure reception in various locations to ensure the stability of their digital terrestrial broadcasts. Signals must be analyzed at these locations, and up until now doing so necessitated bulky equipment that was difficult to transport and power in difficult-to-reach mountainous regions and building interiors. For this reason there has been a strong demand for a measuring solution that could be easily transported to any location.

In 2005, Anritsu contributed to the growth of Japan's digital terrestrial broadcast market by developing the industry's first lightweight, battery-powered handheld digital broadcast field analyzer capable of measuring the ISDB-T format: The MS8911A. This year Anritsu embraces DVB-T/H with new DVB-T/H Analysis Software: The MS8911A/50. Simply installing MS8911A/50 on the MS8911A makes it possible to perform all the measurements needed to ensure proper reception and perform maintenance on broadcasting equipment in the DVB-T/H digital broadcast signal format used widely in Europe and else where, no matter the location.

## Product Outline

Using the MS8911A/50 DVB-T/H Analysis Software in combination with the MS8911A Digital Broadcast Field Analyzer makes it possible to perform every type of signal measurements in the 8 MHz 4k and 8k mode DVB-T format currently used widely in Europe and elsewhere, and in the mobile DVB-H format currently in the testing stage (including field strength, impulse response[\*1], MER[\*2], constellation monitor[\*3] and wavelength characteristics).

The MS8911A/50A Software is installed on the compact, lightweight MS8911A Analyzer, whose highly portable frame makes it possible to perform measurement in almost any situation. Our unique signal analysis technology combines software and hardware to allow you to monitor signal fluctuations that might potentially disrupt the broadcast signal – like AM interference[\*4] and PM interference[\*5] – on the constellation monitor.

The MS8911A/50 Software is also equipped with a high-performance spectrum analyzer to analyze the frequency of obstructions and spurious signals, making it ideal for investigating the cause of signal jamming/impairment. Inexperienced users can use the MS8911A with the greatest of ease thanks to the one-touch system that allows users to set measurement conditions and perform measurements with the press of a single button.

By installing MS8911A/50 Software on the MS8911A Analyzer, the Analyzer can be used as the industry's first handheld measuring device equipped with high-performance spectrum analyzer and DVB-T/H terrestrial digital signal analysis functionality.

## Markets/Uses

- Broadcast carriers: For surveying reception propagation of terrestrial digital broadcasts.
- Maintenance: For maintenance of broadcast transmission equipment for terrestrial digital broadcast, relay and antenna equipment.

## Sales Information

- On sale date: January 27, 2006
- Predicted sales: 200 sets, domestic and foreign total (first year)
- Price: MS8911A/50 DVB-T/H Analysis Software: 1,100,000 Yen  
(for reference)  
MS8911A Digital Broadcast Field Analyzer: 1,650,000 Yen

## Terminology

### \*1 Impulse response

Indicates the energy distribution spread in time of (multipass) pulses arriving at a delay due to reflection/refraction from buildings, mountains, etc.

### \*2 MER: Modulation Error Ratio

An index of the quality of digitally modulated signals, the main merit of MER is that it can provide a quantitative assessment for an error-free signal.

### \*3 Constellation monitor

Shows the transition of modulation symbols. Effective in troubleshooting received signals.

### \*4 AM interference

Amplitude modulation interference

### \*5 PM interference

Phase modulation interference

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