The WRR-861B UHF synthesized diversity tuner is the latest addition to Sony’s lineup of UHF synthesized wireless microphone systems. Designed in accordance with the strong need for high quality but cost-effective wireless reception, this tuner packages sophisticated features inherited from Sony’s top of the line wireless systems. These include such functions as space diversity reception, easy-to-read LCD/LED indicators, selectable RF squelch function, transmitter battery alarm, headphone monitoring function and many other convenient features. Its core electronics are also inherited from Sony’s high-end models, providing low noise/distortion, a wide dynamic range and stable RF reception.

The WRR-861B diversity tuner is designed to be lightweight and rugged (made from die-cast magnesium) in order to cover a diverse range of applications. This makes it suitable for applications ranging from ENG/EFP acquisition to typical sound applications such as field sound mixing in combination with a portable mixer.

The WRR-861B is the wireless system of choice where quality and cost are prime concerns.
**Features**

**Space diversity reception system**

The space diversity reception system, a feature usually available on only high-end wireless systems, is incorporated to effectively eliminate signal dropout and provide stable reception. This is achieved by using dual antenna inputs/reception circuits that receive signals over two different paths and select the stronger RF signal as the output.

**Two way powering**

The WRR-861B is capable of operating on external power supplied from a Sony camcorder via the supplied DC cable. In addition, four AA-size alkaline batteries provide approximately eight hours of continuous operation.

**Battery alarm for added assurance of continued operation**

On the WRR-861B, you can monitor the battery reserve of a transmitter as well as the battery status of the WRR-861B. The red LED starts flashing one hour before the transmitter’s battery goes dead. This function helps to avoid the chance of battery failure at a critical moment. *This may vary depending on the operational environment.

**Selective RF squelch**

The WRR-861B incorporates a selectable RF squelch function. This function allows audio signals to be muted when the RF signal decreases to a certain RF level to virtually eliminate undesired signals from other wireless systems or ambient noise. The RF level is can be set to 5 dBµ, 10 dBµ, 15 dBµ and OFF.

**Rugged, die-cast magnesium construction**

**Specifications**

Receiving frequencies:
- WRR-861B62/64: 758 MHz to 782 MHz (TV channels 62-65)
- WRR-861B66/68: 782 MHz to 806 MHz (TV channels 66-69)

(User may choose from 188 frequencies on each model.)

Type of reception: Space diversity

Circuit system: Dual conversion superheterodyne

Local oscillators: 1st: PLL synthesizer, 2nd: Crystal oscillator

RF input terminal: BNC-R (x 2), 50 Ω (nominal impedance)

System dynamic range: 96 dB or more (101 dB typical)

Reference deviation: ±5 kHz deviation at 1 kHz modulation

Maximum deviation: ±40 kHz deviation at 1 kHz modulation

Signal-to-noise ratio: 60 dB or more (65 dB typical) at 60 dBµ RF input at reference deviation, A-weighted

Selectivity: 60 dB or more at ±250 kHz

RF squelch level: 5 dBµ, 10 dBµ, 15 dBµ or OFF

De-emphasis: 50 µs

Frequency response: 40 Hz to 18 kHz

Distortion: 1.0 % or less (±40 kHz deviation at 1 kHz modulation)

AF output: SMC9-4S (Sony 4-pin, x 1), 150 Ω impedance (balanced)

Output level: -58 dBm (±5.0 kHz deviation at 1 kHz modulation)

Monitor output: 3.5 mm dia. mini jack (x 1, 5 mW)

Indicators LCD: Operating channel/frequency, AF output level, RF input level, receiver battery status, and accumulated operating time.

LED: RF input status, diversity reception status, and transmitter battery alarm

Power requirements:
- Batteries: approx. 140 mA at DC 5 V
- External: approx. 85 mA at DC 12 V

Battery life: Approx. 8 hours using four AA-size alkaline batteries at 25°C

Body construction: Die-cast magnesium (color: dark gray)

Dimensions: 97.0 mm (3 7/8 inches) x 220.0 mm (8 3/4 inches) x 97.0 mm (3 1/4 inches)

Mass: Approx. 290 g (10.2 oz) excluding batteries

Supplied accessories:
- Attachment case (x 1), camera attachment kit (x 1), antennas (x 2), output cable (x 1), DC cable (x 1)

Optional accessory:
- Mounting bracket for Sony professional camcorders - part number A-8278-057-A. The part is only available through Sony’s National Parts Center. Please contact your Sony Authorized Dealer or Rep for details.

SONY.

Sony Electronics Inc.
One Sony Drive
Park Ridge, NJ 07656
www.sony.com/proaudio

Use of Sony wireless devices in the United States of America is regulated by the Federal Communications Commission as described in Parts 15 and 74 of the FCC regulations. Users authorized thereby are required to obtain an appropriate license. © 2001 Sony Corporation. All rights reserved. Reproduction in whole or in part without written permissions is prohibited. Features and specifications are subject to change without notice. All non-metric weights and measures are approximate. Sony is a registered trademark of Sony Corporation. All other trademarks are the property of their respective owners.