

SONY®

UHF Synthesized Diversity Tuner **WRR-861B**

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

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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.

Selectable 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 can be set to 5 dBμ, 10 dBμ, 15 dBμ and OFF.

Rugged, die-cast magnesium construction

Pre-programmed frequency groups

Optimum combinations of precisely calculated and practically tested intermodulation-free frequencies are stored in the CPU of the WRR-861B in order to make it easy to choose the correct frequencies for simultaneous multi-channel operation. These frequencies are arranged in groups, with each group pre-programmed to allow intermodulation free operation.

Operating frequency ranges

The WRR-861B operates over a 24 MHz frequency band between 758 MHz and 806 MHz.

Extensive range of operating status on LED and LCD

The WRR-861B diversity tuner has LED and LCD indicators to provide extensive information on operating conditions: the LEDs indicate RF input status (green/red indication) and transmitter battery alarm, while the LCD indicates operating channel/frequency, AF output level, RF input level, receiver battery status and accumulated operating time.

Monitoring function

The WRR-861B includes a mini jack for monitoring the output sound with headphones. A monitor volume control is also included.

Compact and lightweight for mounting on Sony professional camcorders

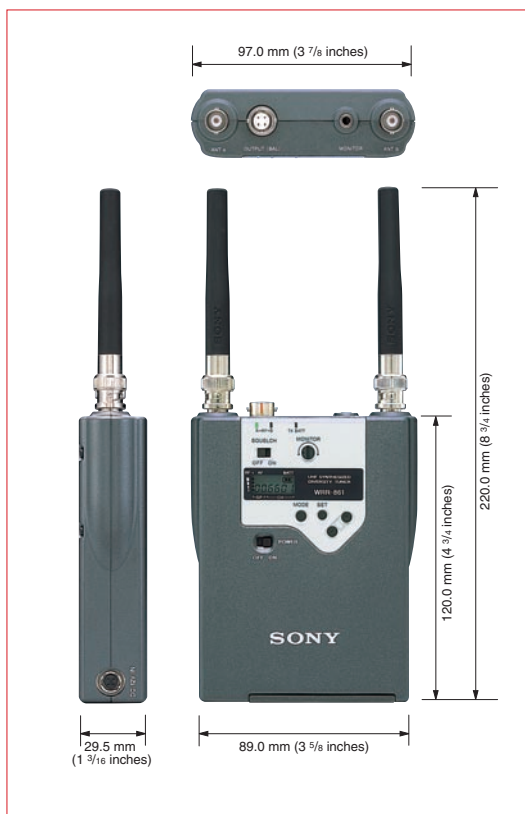
This diversity tuner is lightweight, only 290 g (excluding batteries). The WRR-861B is easily mounted on Sony professional camcorders* with the attachment kit and case.

*Additional mounting hardware may be required for some Sony camcorders.

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)
		(Users may choose from 188 frequencies on each model.)
Type of reception:	Space diversity	
Circuit system:	Dual conversion superheterodyne	
Local oscillators:	1 st : PLL synthesizer, 2 nd : 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 1kHz 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 6 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:	89.0 x 120.0 x 29.5 mm (3 5/8 x 4 3/4 x 1 3/16 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.	

Dimensions



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