

# SONY®

## UHF Synthesized Dual Diversity Tuner **WRR-862A/862B**

The Sony UHF synthesized wireless microphone system has received worldwide acclaim for its outstanding performance, versatility and reliability in professional applications. Sony is now proud to introduce its latest addition to this system — the WRR-862 UHF synthesized Dual Diversity Tuner.

This affordable diversity tuner has been introduced to meet the demand for two-channel reception in ENG and EFP applications. Two space-diversity receiver modules are built in to its rugged, compact and extremely lightweight body that is made from diecast magnesium. This makes the WRR-862 especially suitable for mounting on to Sony professional camcorders with the supplied attachment kit/case, as well as a variety of other portable applications.



## Dual Diversity Tuner

Despite its compact design, the WRR-862 simultaneously receives two independent RF signals on two separate channels. A space diversity system is employed on both channels to eliminate signal dropout and provide stable reception. Two SMC9-4S (Sony 4-pin) audio output connectors are provided on the top panel.

## Operating frequency ranges\*1

The WRR-862 is available in two versions. The WRR-862A operates over a 14 MHz frequency band within the range 792 MHz to 806 MHz (AU), while the WRR-862B model operates over a 24 MHz frequency band between 470 MHz and 806 MHz (UC), or 470 MHz to 862 MHz (CE). The operating frequency of the WRR-862B specifically accommodates the re-allocation of wireless operation frequency band due to the advent of Digital TV broadcasting.

## Compact, lightweight and easy to mount on Sony professional camcorders

This dual diversity tuner is extremely compact and lightweight. At only 400 g (14.1 oz) including batteries, it is easily mounted on Sony professional camcorders with the supplied attachment kit and case.

## LED and LCD indication

The WRR-862 dual diversity tuner has LED and LCD displays to provide extensive range of information.

- LED for each channel to indicate RF input level (green/red indication), diversity reception status and transmitter battery alarm
- LCD for each channel to indicate operating channel/frequency, AF output level, RF input level, receiver battery status and accumulated battery operating time

## Long operating time

Approximate five\*2 hours of continuous operation is provided by four AA-size alkaline batteries. The WRR-862 is also capable of operating on external power from Sony camcorders via the supplied DC cable.

## Switchable RF squelch

The WRR-862 incorporates RF squelch that is easily turned ON or OFF. When turned ON, the RF level is selectable from 5 dB $\mu$ , 10 dB $\mu$  and 15 dB $\mu$ .

## Monitoring Function

The WRR-862 includes a stereo mini jack for monitoring the output sound (switchable: Tuner 1/2/mixed) with headphones. A monitor volume control is also included.

## Rugged, diecast magnesium, construction

\*1 WRR-862A

AU: 792 MHz to 806 MHz, TV channels 66 to 67

WRR-862B

CE: 470 MHz to 862 MHz, TV channels 21 to 69 (17 frequency band, divided into 24 MHz range. All 17 frequency bands may not be available in some areas.)

UC: 470 MHz to 806 MHz, TV channels 14 to 69 (14 frequency band, divided into 24 MHz range. All 14 frequency bands may not be available in some areas.)

For details, please consult your nearest Sony office.

\*2 When receiving two channels and operating at 25°C.

## Specifications

### Receiving frequencies:

WRR-862A	AU:	2 frequencies within 792 MHz to 806 MHz
WRR-862B	CE:	2 frequencies within a 24 MHz frequency band selected from 470 MHz to 862 MHz
	UC:	2 frequencies within a 24 MHz frequency band selected from 470 MHz to 806 MHz

Type of reception:	Space diversity
Circuit system:	Dual conversion superheterodyne
Local oscillators:	1 <sup>st</sup> : PLL synthesizer 2 <sup>nd</sup> : Crystal oscillator
RF input terminal:	BNC-R (x 2), 50 $\Omega$ (nominal) impedance
System dynamic range:	96 dB or more (101 dB typical)
Reference deviation:	$\pm 5$ kHz deviation at 1 kHz modulation
Maximum deviation:	$\pm 40$ kHz deviation at 1 kHz modulation
Signal to noise ratio:	60 dB or more (65 dB typical) at 60 dB $\mu$ RF input at reference deviation, A-weighted
Selectivity:	60 dB or more at $\pm 250$ kHz
RF squelch level:	5 dB $\mu$ , 10 dB $\mu$ , 15 dB $\mu$ or OFF
De-emphasis:	50 $\mu$ s
Frequency response:	40 Hz to 18 kHz
Distortion:	1.0% or less ( $\pm 40$ kHz deviation at 1 kHz modulation)
AF output:	SMC9-4S (Sony 4-pin, x 2), 150 $\Omega$ (balanced) impedance
Output level:	-58 dBm ( $\pm 5.0$ kHz deviation at 1 kHz modulation)
Monitor output:	3.5 mm dia. mini jack (x 1, 5 mW), Tuner 1/2/mixed selectable
Indicators	LCD: Operating channel/frequency, AF output level, RF input level, battery status, and accumulated battery operating time
	LED: RF input level, diversity reception status, transmitter battery alarm
Power requirements:	Batteries: approx. 230 mA at DC 6 V External: approx. 135 mA at DC 12 V
Battery life:	5 hours or more (continuous operation with 4 Sony LR6 batteries at 25°C)
Body construction:	Diecast 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. 400 g (14.1 oz) including batteries
Supplied accessories:	Attachment case (x1), Camera attachment kit (x1), Antennas (x 2), Output cables (x2), DC cable (x1)

## Dimensions



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