SONY
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WRR-862B/67

UHF synthesised dual diversity wireless tuner

Let the performer move without strings attached

Flexibility to transmit and thus record two wireless audio channels can sometimes be vital for a particular news piece or a location recording. This affordable diversity tuner has been introduced to meet the demand for such two-channel reception on location.

With its latest implementation of the standard Sony technological advanced features, and its ability to operate on a 24MHz bandwidth between TV bands 67 and 69, the WRR-862B two channel receiver is perfect for any application such as news, EFP, rental etc.

This product comes with PrimeSupport – fast, hassle-free repairs and a helpline offering expert technical advice. Which gives you the peace of mind that Sony is looking after your equipment, and your business.

Features

Compact and lightweight

Compact and lightweight magnesium alloy body

Large number of pre-programmed spot frequencies

Up to 320 spot frequencies available in one TV channel, with a maximum of 960 spot frequencies available depending on version.

Pre-programmed multi-channel groups

Pre-programmed groups stored in CPU for intermodulation free operation of multi-channel systems.

Pilot Tone

Pilot Tone operation for seamless reception

Advanced LC type filters

Sony has implemented a special temperature and humidity stable LC type filter design inside a small package designed for absorbing mechanical impacts. This allows the transmitter to operate over the extended frequency range 470MHz to 862MHz.

Direct 800MHz oscillation

Direct 800MHz oscillation offers exceptional stability also when exposed to harsh operating environments or reasonable mechanical abuse.

Two easy-to-read LCD display

Each channel has an easy-to-read LCD display showing the selected channel and IM free group, frequency, RF level, AF level and battery level status of transmitters.

Five hours operating time on each receiver

Continuous operation of more than 5 hours with four (LR6) AA-size alkaline batteries.

Benefits

Flexible frequency management

The WRR-862B can be supplied at any 24MHz band (3 TV Channels) between 470MHz and 862MHz.
It will also be possible to re-tune the product delivered to another 24MHz band within its original band.
Low band products TV CH 21 to 32
Mid band products TV CH 33 to 44
High band products TV CH 45 to 69

Stereo or two independent simultaneous received channels

Due to dual diversity, it is possible to receive two independent programs or one stereo program.

No external RF noise surprises using the scan feature

For added safety on location the WRR-862B also includes an RF scan function, allowing you to identify if any RF noise is present possibly disturbing your performance.

Eliminating drop-outs and improving practical noise floor through Space Diversity

Using the two antennae, positioned so that they "see" the same environment, it is statistically unlikely that the Field Strength will drop under a critical level at the same time at both antennae.

Receiving both signals and selecting the best of them

will not only reduce the likelihood of a total drop out, but also improve the practical audio noise floor

Comprehensive Squelch functions for RF noise free operation

The WRR-862B has pilot tone squelch, Low RF Muting and Excessive White Noise Muting functions. Together these three technologically advanced functions ensure optimum noise free and seamless performance.

The "Low RF Muting" level can be adjusted by the user.

Exceptional rejection of unwanted signals

While maintaining optimum integrity of the desired signal, exceptional rejection and seamless muting is achieved through the use of advanced filtering techniques and the Pilot Tone.

Interference Free operation with the Pilot Tone Squelch

A Pilot Tone muting squelch operation minimises the risk and equally important - effects - of a drop out. Creating a seamless transition free from bursts of noise sometimes found in systems not incorporating the Pilot Tone.

Intermodulation free operation of multi-channel systems

Optimum combinations of specially calculated and practically tested intermodulation-free frequencies are stored in the CPU making it easy to choose the correct frequencies for simultaneous multi-channel operation.

These frequencies are arranged in groups, with each group pre-programmed to be free from internal interference. Up to 10 intermodulation-free channels can be used simultaneously within an 8MHz European TV channel.

Informative LCD display and LED's for both channels

The informative independent displays gives the operator a complete independent status of important information such as selected channel or frequency, audio input attenuator level, cumulative working time on the current battery set, audio input level, RF transmitting indication, and the status of the battery reserves of each of the transmitter.

Long operating hours

Conservatively estimated, it will operate the two channels for more than 5 hours on just four AA professional alkaline batteries. Alternative power can be obtained from an external 12V power supply e.g. from a camera.

Technical Specifications

Generic Specifications	
Type of reception	Space Diversity
Circuit system	Dual conversion superheterodyne
Local oscillators	1st PLL synthesizer: 2nd Crystal oscillator
RF input terminal	BNC-R (x2), 50 Ohm 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 / Off
De-emphasis	50 µs
Frequency response	40 Hz to 18 kHz
Distortion	1% or less (±40 kHz deviation at 1 kHz modulation)
AF output	SMC9-4S (Sony 4-pin, x2), 150 Ohm (balanced) impedance
Output level	-58 dBm (±5 kHz deviation at 1 kHz modulation)
Monitor output	3.5 mm dia. mini jack (x 1, 5 mW), Tuner 1/2/mixed selectable
Battery life	5 hours or more: (continuous operation with 4 Sony LR6 batteries at 25 Degrees C)
Body constrution	Diecast magnesium (colour: dark grey)
Dimensions	89 x 120 x 29.5 mm
Mass	Approx. 400 g inc. batteries

Receiving frequencies	
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

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	135 mA at DC 12 V

Supplied Accessories	
Antennae	
Attachment case	
Camera attachment kit	
Output cables	
Two ¼ wavelength whip antennae	
DC cable	