

WRU-806B Series

Plug-in UHF synthesised diversity receiver module operating on TV bands 62 to 64.

Freedom from the messy cables

Effective communication requires clean and intelligible audio, free from drop-outs and bursts of noise. The Freedom series WRU-806B/62 receiver module was designed as a professional receiver, while focusing on the needs of a business operation. Maximum channels in minimum space, with uncompromising quality and reliability, are offered when WRU-806B/62 modules are housed within the MB-806A rack mounting frame. The module can also be inserted into a powered audio/video mixer such as the SRP-X351P or SRP-X700P. WRU-806B/62 operates on TV bands 62 to 64.

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

For use with various frames or hosts

Dedicated plug-in diversity receiver module for MB-806A rack mounting frame (or WRR-801A) and SRP-X351P audio mixer/video selector.

Auto channel assignment

Auto channel assignment for extra receiver modules with self-detection and skip of unusable channels

Pre-programmed, multi-channel groups

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

Easy-to-read LCD display

Easy-to-read LCD display showing the selected channel and IM free group, frequency, RF level, AF level and battery level status of the associated transmitter.

Advanced filtering of RF signal

Use of SAW filters for exceptional rejection of unwanted signals while maintaining the best possible signal integrity of the wanted signal.

Diversity Reception

Space diversity reception for dependable RF reception

Large number of pre-programmed frequencies

Up to 320 spot frequencies are available in one TV channel, with a maximum of 560 spot frequencies available depending upon the version.

Benefits

Rack mounting and integration with Sony products

The MB-806A 19inch 1RU rack mountable receiver frame will accept a staggering WRU-806 modules.

Convenient auto channel assignment function

When used with the MB-806A rack mounting frame, the operating group can be set on the first of the installed WRU-806 receivers. Channels within the same group are then automatically assigned for all the mounted WRU's. Unusable channels, with RF noise or other WL transmitters transmitting on that frequency, will be automatically detected and skipped. This enables instant and automatic multi-channel setting of an entire rack of receivers.

Intermodulation free operation of multi-channel systems

Optimum combinations of specially calculated, and practically, tested intermodulation-free frequencies are stored in the modules 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

The informative display gives the operator a complete status of important information such as selected channel or frequency, AF level, received RF level, and status of the battery reserves of the transmitter. (applicable to all Sony transmitters, except WRT-867A). An extra warning LED is provided to show when the transmitters battery needs changing.

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 RF 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.

Interference free reception with the Pilot Tone squelch function

A Pilot Tone muting squelch function minimises the risk and effects of a drop out. This creates a transition free from bursts of noise often found in systems not incorporating the Pilot Tone.

Comprehensive squelch functions for RF noise free operation

The Pilot Tone Squelch, Low RF Muting and Excessive White Noise Muting functions ensure optimum noise free and seamless performance.

Technical Specifications

Generic Specifications	
Oscillator	Crystal controlled PLL synthesiser
Type of reception	110KF3E
Reference deviation	±5 kHz
Maximum deviation	±40 kHz
Selectivity	60 dB or more (at 250 kHz detuned)
Frequency range	100 - 15 000 kHz
Spurious rejection	70 dB or more
Image rejection ratio	60 dB or more
Headroom at ref. Level	39 dB
Harmonic distortion	1% or less (±40 kHz deviation at 1kHz modulation)
RF muting level	30 dB μ
Tone signal frequency	32.768 kHz
Audio output level	-28 dBu (±5 kHz deviation at 1 kHz modulation)
Audio output connector	Multi-connector (10-pin)
Operating Voltage	DC 9 V
Current consumption	Approx. 600 mA

Exceptional rejection of unwanted signals

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

The WRU is a space saver!

Using 6 WRU-806s in one MB-806A saves as much as 3U of rack space compared with normal dual channel receivers including antenna distribution system.

Easy identification of all 6 channels in a MB-806A frame

A colour strip sheet is supplied co-ordinated with similar identification supplied with the WRT-805A and WRT-807A transmitters.

Operating temperature	0°C to 40°C
Storage temperature	-20°C to 55°C
Dimensions	57(W) x 26(H) x 122(D)
Mass	Approx. 160g

Receiving Frequencies

CE (62)	798 - 822MHz
CE (69)	838 - 862MHz

Signal to noise ratio

>60 dB, RF input 60 dB μ , deviation ±5 kHz, modulation 1 kHz	
>96 dB, at max deviation	

Supplied Accessories

Colour strip sheet	
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