

SONY

make.believe

WRT-847B/62

UHF synthesized wireless handheld transmitter microphone with interchangeable heads operating on channels 62-64

Let the performer move without strings attached

Demanding situations require flexibility, reliability, clean and intelligible audio and freedom from drop-outs and bursts of noise. The WRT-847B interchangeable-head handheld transmitter is designed to be the work horse transmitter. With its variety of five types of dynamic and condenser heads, it is the most flexible handheld wireless transmitter available. WRT-847B/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

Flexible frequency management

24MHz switching bandwidth

Five available capsules

CU-F780, dynamic super-cardioid, vocal (female).

CU-G780, dynamic super-cardioid, vocal (male).

CU-E700, back electret condenser, super-cardioid, vocal.

CU-E672, back electret condenser, hyper-cardioid, ENG/effects.

CU-E117, dynamic, omni, ENG interview.

Selectable 10 or 50mW RF output power

Pioneering facility that allows use in both multi-channel systems and for very long extended ranges. Selection of power level is software controlled.

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.

Easy-to-read LCD display.

Easy-to-read LCD display showing the selected channel and IM free group, frequency, RF level, AF level, RF power, Componder TC value and battery level status.

Eight hours operating time

Continuous operation of more than 8 hours with two (LR6) AA-size alkaline batteries.

Benefits

Flexible frequency management

The WRT-847B can be supplied in two standard versions covering TV bands 62 to 64 and 67 to 69.

Flexible Audio Options

The WRT-847B handheld transmitter can be used with any of 5 capsules, two dynamic vocal capsules, one electret condenser vocal capsule, one dynamic omni for ENG applications and the unique implementation of the ECM-672 shotgun as a capsule option for a WL transmitter.

Flexible RF options

ENG operations are well catered for with the option of selecting 50mW output for single channel operation over longer distances and 10mW operation for other applications.

Long operating hours

Conservatively estimated, it will operate for more than 8 hours on just two AA professional alkaline batteries at the 10mW setting.

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.

Informative LCD display and LED's

The informative display gives the operator a complete 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 the transmitter.

RF power gets your signal to where it is needed

Sony engineers have implemented an advanced design concept for professional receivers and transmitters that facilitates the use of minimum RF power, 10mW for handhelds, while still catering for the relative long range requirements of an ENG crew.

Safe operation

The WRT-847B has an external on off switch that is useful in ENG operation. This switch can be locked when so required, e.g. when used in studio or on stage.

Technical Specifications

Generic Specifications	
Oscillator	Crystal controlled PLL synthesizer
Type of emission	F3E
Carrier Frequencies	
Dimensions	37 x 37 x 150 mm without two antennas
Mass	Approx. 150 g without batteries
.	WRT-847B/62 798 MHz to 822 MHz (covering TV Channels 62-64) WRT-847B/38 606 MHz to 630 MHz (covering TV Channels 38-40)
RF power output	10 mW/50 mW selectable: 50 Ohm load
Tone signal	32.768 kHz
Type of antenna	1/4 wave length whip
Pre-emphasis	50 µs
Frequency response	50 Hz to 15 kHz
System dynamic range	96 dB or more (101 dB typical)

Headroom	36 dB at +/-5 kHz deviation at 1 kHz modulation
Signal to noise ratio	60 dB or more: (A-weighted, modulation frequency 1 kHz, with +/-5 kHz deviation.)
Audio gain control	-12/-9/-3/0/3/6/9 dB: (in 3 dB steps)
Max. input level	-7 dBV: (at audio gain -12 dB)
Max. input sound pressure level	142 dB SPL: With CU-F780/G780/E700/F117 at audio gain -12 dB
.	120 dB SPL: With CU-E672
Power requirements	DC 3.0 V: Two LR6 AA-size alkaline batteries
Battery life	Approx. 8 hours at 25 Degrees C with Sony LR6 alkaline batteries, at 10 mW RF output

Supplied Accessories

Carry case	
Microphone stand holder with adaptor	

Accessories

Accessories	
CU-E672	CU-E700
Capsule for use with WRT-847B handheld transmitter	Capsule for use with WRT-847B handheld transmitter

CU-F117

Capsule for use with WRT-847B handheld transmitter

CU-G780

Capsule for use with WRT-847B handheld transmitter

CU-F780

Capsule for use with WRT-847B handheld transmitter