

Owner's Record

The model and serial numbers are located at the rear of the unit. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. WRT-808A Serial No. _____

Notice for customers in the U.S.A.

Use of Sony wireless devices is regulated by the Federal Communications Commission as described in Part 74 subpart H of the FCC regulations and users authorized thereby are required to obtain an appropriate license.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

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Precautions

- The unit is designated for use in ambient temperature range of 0°C to 50°C (32°F to 122°F).
- Do not place the unit on or near heat sources, such as lighting equipment, power amplifiers, or in a place subject to direct sunlight or excessive moisture. In such places, the external finish or internal parts of the unit may be damaged.
- If the unit is used in a very humid or dusty place or in a place subject to an active gas, clean its surface as well as the connectors with a dry, sift cloth soon after use.
Lengthy use of the unit in such places or not cleaning it after its use in such places may shorten its life.
- When cleaning the unit, never use organic solvents such as thinners or benzine, which will damage the finish of the unit.
- The unit has been factory adjusted precisely. Do not tamper with its internal parts or attempt to repair it.

Introduction

The WRT-808A is a plug-on transmitter which converts any handheld dynamic microphone into a wireless microphone.

The WRT-808A is a transmitter to be in combination with the WRR-800A/801A UHF Synthesized Diversity Tuner for an 800MHz band UHF synthesized wireless microphone system.

The WRT-808A can also be used in conventional Sony Wireless Microphone System composed of the WRT-810A/820A UHF Synthesized Transmitter, WRR-820A/840A/850A UHF Synthesized Diversity Tuner, etc.

The microphone/transmitter and tuners of the wireless microphone system are classified by frequency band. A 12MHz frequency band (or two consecutive numbered TV channels, such as 68 and 69 of the WRT-808A/U68 model) is assigned to each microphone/transmitter and tuner model. In building a UHF wireless microphone system, be sure to combine a microphone/transmitter and a tuner having the same TV channel number.

For the selective wireless channels and frequencies, see "Wireless Channel List" on page 10 - 12.

Easy and steady connection to a microphone

Compact and lightweight

Operation powered by easily available battery

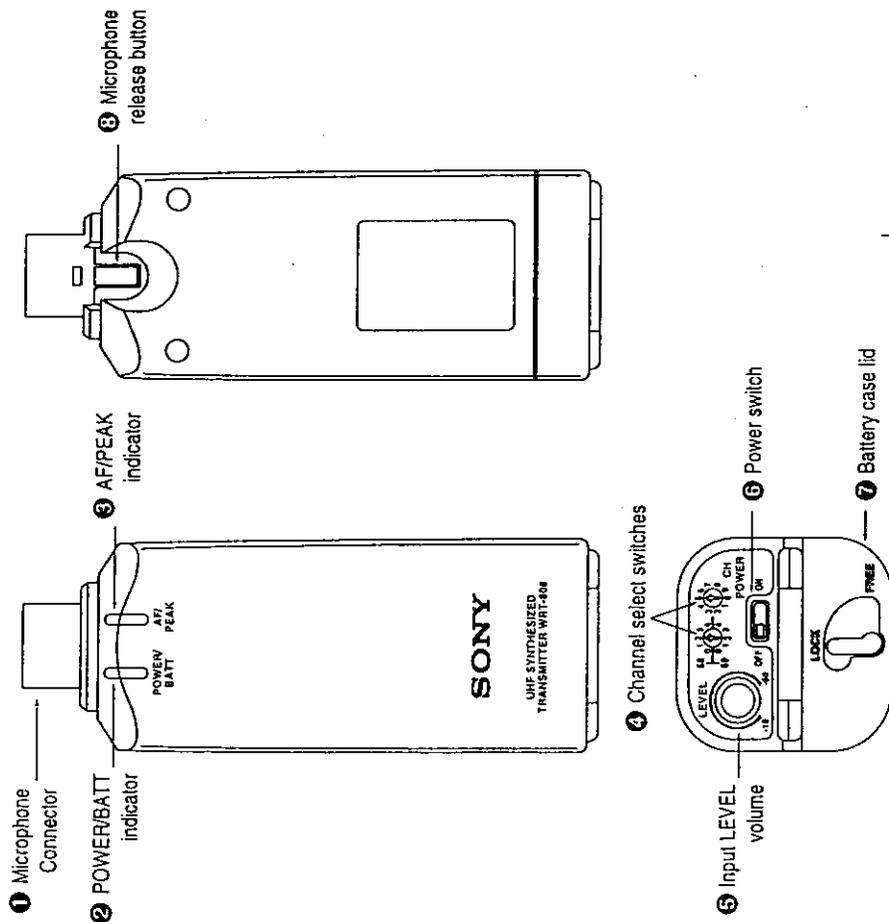
Battery alarm by two-colors LED

Remote battery alarm on tuner

Selectable RF output power

Parts Identification

- 1 Microphone connector**
Connect to a dynamic microphone which has a XLR type connector.
- 2 POWER/BATT indicator**
See "Power Supply" on page 6.
- 3 AF/PEAK indicator**
Lights in green when an audio signal over the reference level is inputted. Lights in red when an audio signal becomes maximum level.
- 4 Channel select switches**
See "Channel Setting" on page 7.
- 5 Input LEVEL volume**
Adjust according to the input level.
- 6 Power switch**
Turns the power of the transmitter ON or OFF.
- 7 Battery case lid**
See "Power Supply" on page 6.
- 8 Microphone release button**
Push this button to release the microphone.

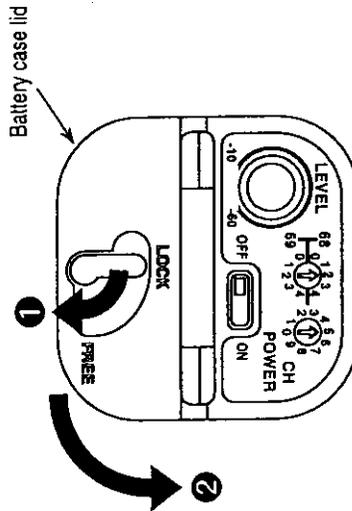


Power supply

The transmitter can operate on two LR6 (size AA) alkaline batteries continuously for about 4 hours at 25°C (77°F).

Inserting the batteries

- 1 Turn the knob on the battery case lid as shown below to open the battery compartment.
- 2 Match the polarity and insert the batteries.
- 3 Close the lid and turn the knob to its original position.



Display example for U68 model

Battery indication

When you turn the power on, the POWER/BATT indicator lights in green. When the battery level becomes low as about one hour is left for continuous operation, the indicator lights in red as a warning. When the batteries are almost exhausted as the unit does not work, the indicator flashes in red. Promptly replace the batteries when the red indication lights or flashes. When the POWER/BATT indicator lights in red, the BATT indication on the WRR-800A/801A/850A starts flashing.

Note

The indication may be incorrect if the batteries are not new when inserted. If you plan to use the transmitter for a long period, it is best to replace the batteries with new ones.

Notes on batteries

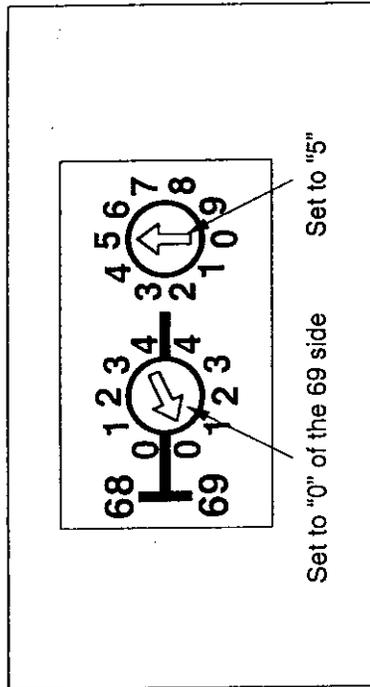
- Use new alkaline batteries, and check the recommended "useby" date on the bottom of the batteries.
- Be careful to insert the batteries with the correct polarity.
- When not using the transmitter for a long period, remove the batteries to avoid leakage. If the batteries does leak, clean all leakage from the unit and insert new batteries. Leakage left in the unit may cause poor battery contact. If there seems to be poor battery contact, consult your Sony dealer.

Channel Setting

Set the channel select switches for the desired channel using the screwdriver.

The left switch is for selecting the TV band and 10s digit of the transmitting channel, and the right switch is for selecting the 1s digit of the transmitting channel.

Example: To set to channel 69-05 on the U68 model



Display example for U68 model

Notes

• Turn off the transmitter when setting the transmitting channel to eliminate interference or noise on other wireless equipment.

If the channel select switches are operated while the transmitter is on, the POWER/BATT indicator flashes in green as a warning.

• If you set to any channel other than those listed in "Wireless Channel Lists", the POWER/BATT indicator flashes in green as a warning.

• The transmitter does not transmit while the POWER/BATT indicator is flashing.

Notes on Use

On channel selection

- Make sure that the channel selected on the transmitter is the same as that selected on the tuner used in the same system.
 - Depending on the noise or interference conditions, the selectable channels may not necessarily all be usable. If necessary, you can determine the usable channels by stepping the channel selection through a number of channels on a tuner with the transmitter set to OFF. Those channels on which the RF indicator of the tuner does not light are usable.
 - If there is a TV broadcasting station near by, do not use the station's channel.
- Powering the transmitter on without checking the channel selection first may interfere with the operation of other microphones/transmitters, if the current setting is already being used.
 - To prevent noise generation, keep the microphones/transmitters at least 3 m (10 ft.) away from the tuner antennas when the system allows selection of up to 11 channels.
 - Do not grip the body while using as it will significantly degrade good performance, causing dropouts, etc.

On microphone system operation

- To operate with two or more channels, maintain a distance of at least 30 cm (1 ft.) between each pair of transmitters.
- For details of operation with two or more channels, refer to the Operating Instructions for the WRR-800A/801A/805A UHF Synthesized Diversity Tuners.*
- Ensure that the tuners set to channels being used are either turned off or set to the minimum output level.
 - When powering the transmitter on or off, to keep the noise to a minimum, set the audio output level from the tuner or mixer to a minimum.

Specifications

Transmitter and modulator section		Power section
Oscillator	Crystal controlled PLL synthesizer	Power requirements 3.0 VDC (two LR6/size AA alkaline batteries)
Carrier frequencies		Battery life Approx. 4 hours at 25°C or 77°F with Sony LR6 alkaline batteries
U64 model:	770.125 to 781.875 MHz (TV channels 64 and 65)	
U66 model:	782.125 to 793.875 MHz (TV channels 66 and 67)	
U68 model:	794.125 to 805.875 MHz (TV channels 68 and 69)	
Type of emission	94 settings at 125kHz intervals 110KF3E	General
RF power output	50mW/10mW selectable	Operating temperature 0°C to +50°C (32°F to 122°F)
Frequency stability	Within ±0.005%	Storage temperature -30°C to +60°C (-22°F to +140°F)
Spurious radiation	2.5 µW or less	Dimensions 40 x 40 x 108 mm
Tone signal	32.768kHz	Mass 165 g
Type of antenna	Internal	
Audio section		
Pre-emphasis	50µs	
Reference deviation	±5kHz (-60dBV, 1kHz input)	
Frequency response	100 to 15,000 Hz	
Signal to noise ratio	57dB or more (A-weighted, 1kHz modulation, with reference deviation at WRR- 800A/801A)	
Audio attenuator	0 to 50dB continuous	

Wireless Channel List

U64 Model/S/F			
TV-64 Band/Banda de TV 64/Bande télé 64			
Channel Canal	Frequency (MHz) Frecuencia Fréquence	Channel Canal	Frequency (MHz) Frecuencia Fréquence
64-01	770.125	64-25	773.125
64-02	770.250	64-26	773.250
64-03	770.375	64-27	773.375
64-04	770.500	64-28	773.500
64-05	770.625	64-29	773.625
64-06	770.750	64-30	773.750
64-07	770.875	64-31	773.875
64-08	771.000	64-32	774.000
64-09	771.125	64-33	774.125
64-10	771.250	64-34	774.250
64-11	771.375	64-35	774.375
64-12	771.500	64-36	774.500
64-13	771.625	64-37	774.625
64-14	771.750	64-38	774.750
64-15	771.875	64-39	774.875
64-16	772.000	64-40	775.000
64-17	772.125	64-41	775.125
64-18	772.250	64-42	775.250
64-19	772.375	64-43	775.375
64-20	772.500	64-44	775.500
64-21	772.625	64-45	775.625
64-22	772.750	64-46	775.750
64-23	772.875	64-47	775.875
64-24	773.000		
TV-65 Band/Banda de TV 65/Bande télé 65			
Channel Canal	Frequency (MHz) Frecuencia Fréquence	Channel Canal	Frequency (MHz) Frecuencia Fréquence
65-01	776.125	65-25	779.125
65-02	776.250	65-26	779.250
65-03	776.375	65-27	779.375
65-04	776.500	65-28	779.500
65-05	776.625	65-29	779.625
65-06	776.750	65-30	779.750
65-07	776.875	65-31	779.875
65-08	777.000	65-32	780.000
65-09	777.125	65-33	780.125
65-10	777.250	65-34	780.250
65-11	777.375	65-35	780.375
65-12	777.500	65-36	780.500
65-13	777.625	65-37	780.625
65-14	777.750	65-38	780.750
65-15	777.875	65-39	780.875
65-16	778.000	65-40	781.000
65-17	778.125	65-41	781.125
65-18	778.250	65-42	781.250
65-19	778.375	65-43	781.375
65-20	778.500	65-44	781.500
65-21	778.625	65-45	781.625
65-22	778.750	65-46	781.750
65-23	778.875	65-47	781.875
65-24	779.000		

U66 Model

TV-66 Band/Banda de TV 66/Bande télé 66			TV-67 Band/Banda de TV 67/Bande télé 67		
Channel Canal	Frequency (MHz) Frecuencia Fréquence	Channel Canal	Frequency (MHz) Frecuencia Fréquence	Channel Canal	Frequency (MHz) Frecuencia Fréquence
66-01	782.125	66-25	785.125	67-01	788.125
66-02	782.250	66-26	785.250	67-02	788.250
66-03	782.375	66-27	785.375	67-03	788.375
66-04	782.500	66-28	785.500	67-04	788.500
66-05	782.625	66-29	785.625	67-05	788.625
66-06	782.750	66-30	785.750	67-06	788.750
66-07	782.875	66-31	785.875	67-07	788.875
66-08	783.000	66-32	786.000	67-08	789.000
66-09	783.125	66-33	786.125	67-09	789.125
66-10	783.250	66-34	786.250	67-10	789.250
66-11	783.375	66-35	786.375	67-11	789.375
66-12	783.500	66-36	786.500	67-12	789.500
66-13	783.625	66-37	786.625	67-13	789.625
66-14	783.750	66-38	786.750	67-14	789.750
66-15	783.875	66-39	786.875	67-15	789.875
66-16	784.000	66-40	787.000	67-16	790.000
66-17	784.125	66-41	787.125	67-17	790.125
66-18	784.250	66-42	787.250	67-18	790.250
66-19	784.375	66-43	787.375	67-19	790.375
66-20	784.500	66-44	787.500	67-20	790.500
66-21	784.625	66-45	787.625	67-21	790.625
66-22	784.750	66-46	787.750	67-22	790.750
66-23	784.875	66-47	787.875	67-23	790.875
66-24	785.000			67-24	791.000

U68 Model

TV-68 Band/Banda de TV 68/Bande télé 68			TV-69 Band/Banda de TV 69/Bande télé 69		
Channel Canal	Frequency (MHz) Frecuencia Fréquence	Channel Canal	Frequency (MHz) Frecuencia Fréquence	Channel Canal	Frequency (MHz) Frecuencia Fréquence
68-01	794.125	68-25	797.125	69-01	800.125
68-02	794.250	68-26	797.250	69-02	800.250
68-03	794.375	68-27	797.375	69-03	800.375
68-04	794.500	68-28	797.500	69-04	800.500
68-05	794.625	68-29	797.625	69-05	800.625
68-06	794.750	68-30	797.750	69-06	800.750
68-07	794.875	68-31	797.875	69-07	800.875
68-08	795.000	68-32	798.000	69-08	801.000
68-09	795.125	68-33	798.125	69-09	801.125
68-10	795.250	68-34	798.250	69-10	801.250
68-11	795.375	68-35	798.375	69-11	801.375
68-12	795.500	68-36	798.500	69-12	801.500
68-13	795.625	68-37	798.625	69-13	801.625
68-14	795.750	68-38	798.750	69-14	801.750
68-15	795.875	68-39	798.875	69-15	801.875
68-16	796.000	68-40	799.000	69-16	802.000
68-17	796.125	68-41	799.125	69-17	802.125
68-18	796.250	68-42	799.250	69-18	802.250
68-19	796.375	68-43	799.375	69-19	802.375
68-20	796.500	68-44	799.500	69-20	802.500
68-21	796.625	68-45	799.625	69-21	802.625
68-22	796.750	68-46	799.750	69-22	802.750
68-23	796.875	68-47	799.875	69-23	802.875
68-24	797.000			69-24	803.000