## SONY.

## UHF Synthesized <br> Wireless Microphone System



# Superb Performance and Reliability in an Affordable Package 



Since its introduction, the unique qualities of the Sony UHF synthesized wireless microphone system have been proven in many different applications. It has been particularly successful in critical applications such as broadcasting and production, where its Iow noise, wide audio dynamic range, stable RF transmission and reception, and high reliability have been vital factors.

In recent years, Sony has enhanced its wireless microphone line-up to fulfill the everincreasing needs for wireless operations. Offering a broad range of choices, this family presents a solution to virtually any wireless microphone application from the very simple to the most sophisticated. Such applications include ENG and EFP location, conference and entertainment, TV studio production, theater, and live performance to name just a few. A variety of options are also made available so that systems are established to suit different operational needs.

The Sony UHF synthesized wireless microphone system offers a perfect choice for all levels of operational and budgetary needs.

## Contents



| Optional | Powered Mixer —_ 16 |
| :---: | :---: |
| Accessories | - SRP-X700P |
| - ECM-88 Series <br> - ECM-77 Series | Frequency Lists $\qquad$ 17 |
| - ECM-66BC | Feature Comparisons _ 19 |
| - ECM-44 Series <br> - ECM-166BC | Specifications 21 |
| - ECM-310BC | Appendix —— 24 |
| - ECM-322BC |  |
| - CA-WR855 | - Multi-channel Simultaneous Operations <br> - Tuner and Camcorder Combinations |
| - A-8278-057-A | - Tuner and Camcorder Combinations |

## PLL Synthesized System

Phase Locked Loop (PLL) frequency synthesized systems are employed both in transmitters and receivers, assuring carrier stability and providing easy access to multiple frequencies. These PLL controlled systems provide highly stable, selectable frequencies to be generated in increments of 125 kHz. Users may choose from 94* frequencies on A-series (USA type) models and from 188 frequencies on B-series (USA type) models.
*In the case of AU models, users may choose from 102 frequencies.

## Space Diversity Reception System

A space diversity reception system is used to eliminate signal dropout. Dual antenna inputs and reception circuits incorporated in the diversity system receive signals over two different paths and select the stronger signal as the output. This switching operation is undetectable on the audio output of the receivers.

## Pre-programmed Frequency Groups

Optimum combinations of calculated and practically tested intermodulation-free frequencies are stored in each receiver to make it easy to choose the correct frequencies for simultaneous multichannel operation. These frequencies are arranged in groups, with each group pre-programmed to allow interference free operation.

## Advanced Filtering

The Sony wireless units all employ Helical, Ceramic and/or SAW (Surface Acoustic Wave) filters as appropriate. This offers stable reception and superb audio quality, and also enables the unique miniaturization seen in most of the Sony products.

## Tone Squelch Circuitry

The wireless microphone transmitters also transmit a 32.768 kHz pilot-tone signal along with the audio signal. In the receivers, a squelch circuit is present, and the audio signal is only output when the tone signal has been correctly received.
This squelch function is designed to virtually prevent the output of unwanted signals or noise from other signal transmissions in the air, as well as the RF noise and popping noise that occur when the transmitter is power on or off.

## Compander System for Wide Dynamic Range and Low Noise

 A compander (compressor/expander) system is included for improved audio dynamic range and low noise and interference. The time constants for attack and release times are carefully chosen in the various transmitters to match the application, ensuring minimized noise level while providing smooth and superior audio quality.
## Multiple Information on Easy-to-read LCD and LED

Most receivers and transmitters feature easy-to-read LCD panel and LED indicators, which provide extensive information on the operating conditions.
Most receivers will display the RFinput level, audio-output status, current channel number and frequency, and battery status of the transmitter.
Most transmitters do in essence have the same information available in the receivers such as audio-input and RF-output status, current channel number and frequency, input attenuation setting, and accumulated battery operating time.

## Remote Battery Alarm on Receiver

For added assurance of continued operation, you can monitor the battery reserves of handheld, body pack and plug-on transmitters. Remaining battery life is indicated on both the transmitter and receiver, with additional indication approximate one hour* before the battery goes dead. On the receiver, the battery indicator on the LCD and LED displays also flash, helping to avoid the chance of battery failure at a critical moment.
*This may vary depending on the operational environment.


## Consistent RF Power Output

A DC-DC convert circuit built into the power supply section of microphones/transmitters assures consistent output power over the life of the batteries.

## Channel Setting Back Up

Each unit has a convenient memory back up for storing operating frequencies. When the power switch is turned on, the previous channel setting is automatically recalled and displayed.

System Examples

Live Music/Theater Productions

6-channel Simultaneous Operation
Required components

- MB-806A or MB-X6 Tuner base unit $\times 1$
$\bullet$


## -16-channel Simultaneous Operation



Required components

- MB-8N Tuner base unit $\times 4$
- WRU-8N Tuner unit x 16
- AN-820A Antenna $\times 2$
- Transmitter* x 16
* Lavalier microphones are not supplied with transmitters.
-54-channel Simultaneous Operation


Note: The above system can be configured when using USA-type models.
When using AU-type models, max. 20-channel simultaneous operation is possible.


Required components

- MB-8N Tuner base unit x14
- WRU-8N Tuner unit $\times 54$
- WD-850 x 4
- AN-820A/L $\times 2$
- AN-820A $\times 2$

Transmitter $\times 54$

* Lavalier microphones are not supplied with transmitters.


## Conference/Educational Applications



## ENG/EFP Applications

HDCAM ${ }^{\text {TM }} /$ Digital Betacam ${ }^{\text {TM }} /$ XDCAM $^{\text {TM }}$ MPEG IMX ${ }^{\text {TM }}$ Camcorder with WRR-855

HDCAM/Digital Betacam/XDCAM/MPEG IMX Camcorder with WRR-862

- WRR-855 Portable tuner x 1
- CA-WR855 Camera adaptor x 1
- Transmitter x 1

Required components

- WRR-855 Portable tuner $\times 1$ (slot-in configuration)
- Transmitter x 1

DVCAM ${ }^{\text {TM }} / X D C A M ~ H D ~ C a m c o r d e r ~$
with WRR-855

## Required components




Transmitters


- Five optional microphone capsules are available, providing a choice of characteristics that suit a range of different applications. Microphone capsules are available individually. (One head is required for the WRT-847A/847B to function.)
- Audio compander time constant is switchable to suit different capsules
- Selectable RF output level: 10 mW for simultaneous multi-channel operation and 50 mW for long distance operation
- Audio gain and attenuation setting from +9 dB to -12 dB in 3 dB steps
- Lockable external power switch (ON/OFF)
- Two AA-size (LR6) alkaline batteries provide approximately eight hours of continuous operation

CU-F780 Capsule Unit


- Dynamic microphone capsule with super cardioid polar pattern
- Uses the same high quality edgewise winding CCAW voice coil that is employed in the acclaimed Sony F-780 wired microphone
- Designed for vocal applications including live music performance
- Frequency response: 50 Hz to 18 kHz
- Dimensions: $\varnothing 51 \times 90 \mathrm{~mm}$
( $\varnothing 21 / 8 \times 35 / 8$ inches)
- Mass: 180 g (6.3 oz)


CU-G780


- Dynamic microphone capsule with super cardioid polar pattern
- Special design, based on the capsule of F-780 microphone, to cope with high sound pressure level vocals and incorporating outstanding feedback rejection
- Designed for vocal use
- Frequency response: 50 Hz to 20 kHz
- Dimensions: ø $51 \times 90 \mathrm{~mm}$
(ø $21 / 8 \times 3$ 5/8 inches)
- Mass: 180 g (6.3 oz)


CU-E700 Capsule Unit


- Electret condenser microphone capsule with super cardioid polar pattern
- Smooth frequency response for natural sound reproduction
- Suitable for critical vocal and speech applications
- Frequency response: 50 Hz to 18 kHz
- Max. SPL: 150 dB
- Dimensions: ø $51 \times 98 \mathrm{~mm}$
(ø $21 / 8 \times 37 / 8$ inches)
- Mass: 170 g ( 6.0 oz )


CU-E672 Capsule Unit


- Electret condenser microphone capsule with hyper cardioid polar pattern
- A wide variety of applications in newsgathering, sports events and interviews
- The supplied windscreen reduces wind noise and popping
- Frequency response: 50 Hz to 16 kHz
- Max. SPL: 120 dB
- Dimensions: $\varnothing 37 \times 172 \mathrm{~mm}$

$$
\text { (ø } 1 \text { 1/2 x } 67 / 8 \text { inches) }
$$

- Mass: 150 g (5.3 oz)
- Supplied accessory: Urethane windscreen (1)



CU-F117 Capsule Unit


- Dynamic microphone capsule with omnidirectional polar pattern
- Superb rejection of wind noise and popping
- Designed for interview applications
- Frequency response: 50 Hz to 15 kHz
- Dimensions: $\varnothing 44 \times 105 \mathrm{~mm}$
(ø $13 / 4 \times 41 / 4$ inches)
- Mass: 170 g ( 6.0 oz )
- Supplied accessory: Urethane windscreen (1)


Transmitters

WRT-867A UHF Synthesized Wireless Microphone

## U68 AU66



- Dynamic microphone capsule with supercardioid polar pattern
- Resilient body structure for extremely high quality sound
- Incorporates a high quality, edgewisewinding voice coil with lightweight CCAW (Copper Clad Aluminum Wire) and AINiCo magnet, which provides powerful, crisp and clear sound as well as presence in the middle and high frequency range
- Ideal for critical vocal applications for broadcast program and film production

- Channel select switches, audio attenuator switch and an LCD indicator inside the body to help prevent accidental operation

WRT-807A/807B



- Uses the same dynamic microphone capsule that is employed in the F-780 professional wired microphone
- High quality sound for vocals - powerful, crisp and clear
- Single AA-size (LR6) alkaline battery provides continuous operation for approximately five hours
- Lockable external power switch (ON/OFF)


WRT-8P UHF Synthesized Transmitter U30/32 U42/44 U62/64 U66/68


- Converts a wired microphone to a wireless microphone via an XLR-type connector
- Compact and lightweight metal body provides high durability and good balance with compatible microphones
- 250 mW high RF output power for stable long-distance transmission
- Selectable RF output power: $250 \mathrm{~mW} / 50 \mathrm{~mW}$
- +48 V power supply capability
- Switchable input level: MIC/LINE
- Attenuator function allows adjustment of the audio-input level
- A backlit LCD provides extensive information
- Optimized balance when combined with the F-112 dynamic microphone

- Ultra compact and lightweight: 140 g including batteries
- Selectable RF power output: 50 mW output for long-distance transmission or 10 mW output for multi-channel simultaneous operation
- Switchable input level (Line or MIC level) and attenuator level control knob
- SMA-J type, removable antenna
- Approximately 13 hours of continuous operation with two AA-size alkaline (LR6) batteries at 10 mW output
- Accepts the output of professional lavalier microphones equipped with a Sony 4-pin connector (SMC9-4P)

- Approximately six* hours of continuous operation with two AA-size (LR6) alkaline batteries
- Compact, lightweight, magnesium alloy body
- 20** mW RF power output
- Accepts the output of professional lavalier microphones equipped with a Sony 4-pin connector (SMC9-4P)
* In the case of the WRT-822B (USA type).

The WRT-822A (AU type) offers approximately eight hours of continuous operation.
** In the case of the WRT-822B (USA type).
The WRT-822A (AU type) offers 10 mW power output.


- Receives two independent RF signals simultaneously on two separate channels
- Compact and lightweight: 400 g ( 14.1 oz ) including batteries
- Two way powering: Internal battery operation or operation on external power from Sony camcorders via the supplied cable
- A red LED starts flashing approximately one* hour before the transmitter's battery is exhausted
- Two SMC9-4S (Sony 4-pin) audio output connectors are provided on the top panel
- Switchable RF squelch levels: ON (5 dB $\mu, 10 \mathrm{~dB} \mu, 15 \mathrm{~dB} \mu$ ) or OFF
- Stereo mini jack for monitoring the output sound (switchable: Tuner 1/Tuner 2/Mixed) with headphones
- Monitor volume control provided
*This time may vary depending on the operational environment.

- Space Diversity Tuner for camcorder use
- Easily mounts onto Sony HDCAM/Digital Betacam/XDCAM/MPEG IMX camcorders without need for audio/power cables or a mounting adaptor
- Compact and lightweight design: 280 g (11 oz)
- A D-sub 15-pin connector for audio output to a Sony professional camcorder and for receiving its power supply from the camcorder

- Single-channel version of the WRR-862A/862B
- Two way powering: Internal battery operation or operation on external power from Sony camcorders via the supplied cable
- A red LED starts flashing approximately one* hour before the transmitter's battery is exhausted
- Switchable RF squelch levels: ON ( $5 \mathrm{~dB} \mu, 10 \mathrm{~dB} \mu, 15 \mathrm{~dB} \mu$ ) or OFF
- Stereo mini jack for monitoring the output sound
- Monitor volume control provided
*This time may vary depending on the operational environment.


MB-8N with four WRU-8N tuner units installed.


- Accommodates up to four WRU-8N tuner modules in a 1 U high, rack-mountable chassis
- Built-in antenna-divider allows four MB-8Ns to be daisy-chained for up to 16-channel simultaneous operation without the need of an external divider. Addition of the WD-880A allows multi-channel operation with even more channels added.
- Control settings such as audio output levels, RF squelch levels, attenuator levels for the installed tuner modules, and power supply setting (ON/OFF) for the connected AN-820A antennas are available from the front panel
- An auto channel assignment function for extra receiver modules with self-detection and skipping of unusable channels
- A headphone monitor jack and level control knob are located on the front panel. The monitor output can be


MB-8N supplied software GUI selected from individual WRU-8N tuner modules or mixed sound from all installed modules

- Computer-based remote control is also possible via a standard Ethernet (10BASE-T) connection. The supplied software allows full monitoring of the operating status and all control settings available on both the MB-8N and WRU-8N. Multi-channel settings can be stored as files


## WRU-8N UHF Synthesized Tuner Unit U30/32 U42/44 U62/64 U66/68 $\quad$ AU66



- Plug-in diversity tuner module for the MB-8N tuner base unit
- A jog dial allows operators to quickly choose the desired channel setting
- Pre-programmed groups for interference-free, multi-channel operation
- A red LED starts flashing approximately one* hour before the transmitter's battery is exhausted
- Precise RF squelch level setting: $10 \mathrm{~dB} \mu, 20 \mathrm{~dB} \mu, 30 \mathrm{~dB} \mu$ or OFF
- Space diversity reception for dependable RF reception
*This time may vary depending on the operational environment.


- Accommodates up to six WRU-806A/806B for up to six channels of simultaneous operation
- Addition of the WD-850 or WD-880A allows multi-channel operation with even more channels
- RF input attenuator switch ( $10 \mathrm{~dB} / 0 \mathrm{~dB}$ )
- Balanced XLR output connector for each tuner and mix output
- Selectable output level: -58 dBm (for MIC) or -20 dBm (for LINE) at $\pm 5 \mathrm{kHz}$ deviation at 1 kHz modulation
- Auto channel assignment function for extra receiver modules with self-detection and skipping of unusable channels
- Supplied passive antennas for rear mounting (with provision for front mounting)
- Modular design, $1 \cup$ high 19-inch rack unit


MB-X6 with six WRU-806A/806B tuner units installed.


- Accommodates up to six WRU-806A/806B for up to six channels of simultaneous operation
- Addition of the WD-850 or WD-880A allows multi-channel operation with even more channels
- Easy mechanism for attaching and detaching tuner modules
- RF input attenuator switch ( $10 \mathrm{~dB} / 0 \mathrm{~dB}$ )
- Balanced XLR output connector for each tuner and mix output
- Selectable output level: -58 dBu (for MIC) or -20 dBu (for LINE) at $\pm 5 \mathrm{kHz}$ deviation at 1 kHz modulation
- Auto channel search function automatically selects unoccupied channels
- Supplied with passive antennas
- Modular, 1 U high, 19-inch rack unit


## WRU-806A/806B UHF Synthesized Tuner Unit U30/32 U42/44 U62/64 U66/68 AU66



- Plug-in diversity receiver module for MB-806A/X6 tuner base unit
- Pre-programmed groups for interference free, multi-channel operation
- RF input status, audio output status, and battery alarm indications by both LED and LCD to double check operating condition
- Space diversity reception for dependable RF reception

- Provides diversity output for up to four receivers/tuner base units
- Multi-channel operation by combination with the MB-8N and WRU-8N or the MB-806A/X6 and WRU-806A/806B
- Cascade output can be used for an additional antenna divider or receiver/tuner base unit
- Two pair of antenna input connectors for up to four AN-820A antennas to expand the operating area of a wireless microphone system


## WD-880A UHF Antenna Divider U AU



WD-880A (USA type) front panel


WD-880A (USA type) rear panel


- Ideal for complex, multi-channel applications from large scale live music events to TV OBs and large theater productions
- Stable reception minimizing interference and distortion
- Band pass SAW filters divide the spectrum of TV channels into multiple frequency bands, which are output from the WD-880A
- Dual inputs and outputs for diversity operation
- Switchable power supply (DC 9 V or 12 V ) for the AN-820A UHF antennas
- LED indicators to show the output connection status
- 1 U size rack mountable
* The USA type operates in 770 MHz to 806 MHz . The AU type operates in 792 MHz to 806 MHz .

- Built-in RF amplifier (10 dB gain)
- Easy installation on a wall or on a microphone stand with the supplied stand adaptor
- Used in pairs for diversity reception
- LED indication for installation check
- External power supply provided from the MB-8N/806A/X6 or the WD-850/880A via a coaxial cable



## ECM-88 Series

## Lavalier Microphone

- Ultra-miniature, omni-directional microphone
- Rectangular dual-diaphragm mechanism contributes to a significant reduction in handling noise
- Water-resistant design
- Flat-and-wide frequency response: 20 Hz to 20 kHz



## ECM-77 Series

## Lavalier Microphone

- High performance, miniature microphone
- Omni-directional, electret condenser microphone
- Frequency response: 40 Hz to 20 kHz
- Sensitivity: -39.0 dB (11.2 mV) (0 dB = 1V/Pa, at 1 kHz$)$
- Microphone head: 5.6 mm (1/4 inch) dia. x 12.5 mm (1/2 inches), approx. 1.5 g ( 0.05 oz )
- Cable length: ECM-77BC: 1.2 m (3.9 feet), ECM-77BPT: 3.0 m ( 9.8 feet)
- Two types available:

ECM-77BC: Black-colored model supplied with a Sony 4-pin
connector (SMC9-4P), for use with the WRT-8B/822A/822B
ECM-77BPT: Black-colored model supplied without a connector (pigtail), enabling users to choose connectors according to their transmitter


## ECM-44 Series

## Lavalier Microphone

- Omni-directional, electret condenser microphone
- Superior sound quality
- Frequency response: 40 Hz to 15 kHz
- Sensitivity: -40 dB SPL $(10 \mathrm{mV})(0 \mathrm{~dB}=1 \mathrm{~V} / \mathrm{Pa}$, at 1 kHz$)$
- Microphone head: 8.5 mm (11/32 inch) dia. x 14.5 mm (19/32 inches), approx. 2 g (0.07 oz)
- Cable length: ECM-44BC: 1.2 m (3.9 feet), ECM-44BPT: 3.0 m ( 9.8 feet)
- Two types available:

ECM-44BC: Black-colored model supplied with a Sony 4-pin connector (SMC9-4P), for use with the WRT-8B/822A/822B
ECM-44BPT: Black-colored model supplied without a connector (pigtail)

- Sensitivity: $-52 \mathrm{~dB} \pm 2 \mathrm{~dB}$ (in combination with optional DC-78) -39 dB (12.6 mW)
- Signal-to-noise ratio: 68 dB or more (A-weighted, $1 \mathrm{kHz}, 1 \mathrm{~Pa}$ )
- Inherent nose: 26 dB SPL or less (A-weighted, $1 \mathrm{kHz}, 1 \mathrm{~Pa}$ )
- Microphone head: $3.5 \mathrm{~mm}(5 / 32$ inch $) \times 3.5 \mathrm{~mm}(5 / 32$ inch $) \times 16.8 \mathrm{~mm}$ (11/16 inch), approx. $0.6 \mathrm{~g}(0.02 \mathrm{oz})$
- Cable length: ECM-88BC: 1.2 m (3.9 feet), ECM-88BPT/88FPT: 2.5 m (8.2 feet)
- Three types available:

ECM-88BC: Black-colored model supplied with a Sony 4-pin connector (SMC9-4P), for use with the WRT-8B/822A/822B
ECM-88BPT: Black-colored model supplied without a connector (pigtail), enabling users to choose connectors according to their transmitter
ECM-88FPT: Beige-colored model supplied without a connector (pigtail)


## ECM-66BC

## Lavalier Microphone

- Uni-directional, electret condenser microphone
- Resistant to howling by rejecting indirect sound
- Wide dynamic range ( 101 dB ), and high maximum input-sound-
pressure level ( 130 dB SPL)
- Frequency: 70 Hz to 14 kHz
- Sensitivity: $-36.5 \mathrm{~dB}(15 \mathrm{mV})(0 \mathrm{~dB}=1 \mathrm{~V} / \mathrm{Pa}$, at 1 kHz$)$
- Low inherent-noise characteristics
- Microphone head: 10.6 mm (7/16 inch) dia. x 24.2 mm (31/32 inch), approx. $7 \mathrm{~g}(0.25 \mathrm{oz})$
- Cable length: 1.2 m (3.9 feet)
- Black-colored model supplied with a Sony 4-pin connector (SMC9-4P), for use with the WRT-8B/822A/822B



## ECM-166BC

## Lavalier Microphone

- Uni-directional, electret condenser microphone
- Resistant to howling by rejecting indirect sound
- Ideal for institutional uses and sound contracting applications such as speeches, lectures and conferences
- Frequency response: 100 Hz to 10 kHz
- Sensitivity: $-45 \mathrm{~dB}(5.6 \mathrm{mV})(0 \mathrm{~dB}=1 \mathrm{~V} / \mathrm{Pa}$, at 1 kHz$)$
- Microphone head: 12.5 mm (1/2 inch) dia. $\times 23.5 \mathrm{~mm}$ (15/16 inches), approx. 3.5 g ( 0.12 oz )
- Cable length: 1.2 m (3.9 feet)
- Supplied with the Sony 4-pin (SMC9-4P) connector for use with the WRT-8B/822A/822B



## ECM-310BC

## Headset Microphone

- Lightweight, headset-style microphone for sound reinforcement applications
- Wide-cardioid, electret condenser microphone provides crisp and clear sound while isolating desired sound from surrounding ambience
- Adjustable hinge and goose-neck
- Frequency response: 70 Hz to 12 kHz
- Sensitivity: $-44 \mathrm{~dB}(6.3 \mathrm{mV}) \pm 3 \mathrm{~dB}(0 \mathrm{~dB}=1 \mathrm{~V} / \mathrm{Pa}$, at 1 kHz$)$
- Cable length: 1.2 m (3.9 feet)
- Supplied with the Sony 4-pin (SMC9-4P) connector for use with the WRT-8B/822A/822B



## CA-WR855

## Camera Adaptor

- Enables a WRR-855A/855B portable tuner to be mounted on Sony DSR-450WS/450WSP/400/400P DVCAM camcorders and PDW-F350/F330 XDCAM HD camcorders with direct audio/power connection interfaces



## EC-1.5CF

## Microphone Cable

- Fitted with an XLR-3-11 connector and SMC9-4P connector
- Allows a microphone with a 3-pin male XLR output connector to be connected to WRT-8B/822A/822B bodypack transmitter
- Cable length: 1.5 m ( 4.9 feet)



## ECM-322BC

## Earset Microphone

- Earset microphone for multimedia presentation applications
- Omni-directional microphone capsule for clear voice pickup from any direction
- Extra light weight of only $15 \mathrm{~g}(0.5 \mathrm{oz})$ excluding the cable
- Adjustable microphone position
- Secure and comfortable fit
- Frequency response: 70 Hz to 15 kHz
- Sensitivity: - $43 \mathrm{~dB}(7.1 \mathrm{mV}) \pm 3 \mathrm{~dB}(0 \mathrm{~dB}=1 \mathrm{~V} / \mathrm{Pa}$, at 1 kHz$)$
- Cable length: 1.4 m ( 4.5 feet)
- Equipped with the Sony 4-pin (SMC9-4P) connector for use with the WRT-8B/822A/822B



## A-8278-057-A

Mounting Bracket

- For mounting any Sony portable tuner (with tuner supplied hardware) to Sony professional camcorders which operate on Sony Lithium-Ion battery packs


## Powered Mixer

SRP-X700P Powered Mixer


SRP-X700P with two optional WRU-806A/806B installed


- All-in-one presentation mixer ideal for conference rooms, lecture halls, theaters and other presentation applications
- Contains a high-quality digital audio mixer, power amplifier, wireless tuner slots (for optional tuner modules), RGB/video switcher, feedback reducer and equalizer in a compact 3 U high unit
- Combines a six-input RGB/video switcher with an audio mixer. The switcher allows a variety of video and PC graphic sources to be routed to the presentation system while the audio mixer processes input signals from wired and wireless microphones as well as audio playback devices.
- Processes and mixes the 6-mono inputs (4 mic, $2 \mathrm{mic} / \mathrm{line}$ ), one-stereo input, and the stereo or 5.1 inputs selected by the switcher to 10 outputs
- Wireless microphone slots accommodates up to two WRU-806A/806B or UWP-X1/X2 tuner modules
- Programmable TRIM, LCF, parametric EQ, feedback reducer, compressor/limiter, Delay, and automatic microphone mixing with 20-scene memory capacity
- Integrated machine control capability:
- Remote control of SRP-X700P via USB, RS-232C from a PC
- RS-232C output port allows remote control of a projector/plasma display unit from the SRP-X700P to select the projector's input from RGB, component or composite as well as control of power on/standby
- Control-S ports allows remote control of Sony's VTRs, DVD/CD/MD players and video/data projectors from the SRP-X700P
- Parallel output port allows remote control of peripheral equipment such as a curtain, screen and/or lights from the SRP-X700P*
- Supplied software for comprehensive set-up and controls of SRP-X700P from a PC via USB

[^0]A64 (USA type)

|  |  |  |  |
| :--- | :--- | :--- | :--- |
| $64-01$ | 770.125 | $65-01$ | 776.125 |
| $64-02$ | 770.250 | $65-02$ | 776.250 |
| $64-03$ | 770.375 | $65-03$ | 776.375 |
| $64-04$ | 770.500 | $65-04$ | 776.500 |
| $64-05$ | 770.625 | $65-05$ | 776.625 |
| $64-06$ | 770.750 | $65-06$ | 776.750 |
| $64-07$ | 770.875 | $65-07$ | 776.875 |
| $64-08$ | 771.000 | $65-08$ | 777.000 |
| $64-09$ | 771.125 | $65-09$ | 777.125 |
| $64-10$ | 771.250 | $65-10$ | 777.250 |
| $64-11$ | 771.375 | $65-11$ | 777.375 |
| $64-12$ | 771.500 | $65-12$ | 777.500 |
| $64-13$ | 771.625 | $65-13$ | 777.625 |
| $64-14$ | 771.750 | $65-14$ | 777.750 |
| $64-15$ | 771.875 | $65-15$ | 777.875 |
| $64-16$ | 772.000 | $65-16$ | 778.000 |
| $64-17$ | 772.125 | $65-17$ | 778.125 |
| $64-18$ | 772.250 | $65-18$ | 778.250 |
| $64-19$ | 772.375 | $65-19$ | 778.375 |
| $64-20$ | 772.500 | $65-20$ | 778.500 |
| $64-21$ | 772.625 | $65-21$ | 778.625 |
| $64-22$ | 772.750 | $65-22$ | 778.750 |
| $64-23$ | 772.875 | $65-23$ | 778.875 |
| $64-24$ | 773.000 | $65-24$ | 779.000 |
| $64-25$ | 773.125 | $65-25$ | 779.125 |
| $64-26$ | 773.250 | $65-26$ | 779.250 |
| $64-27$ | 773.375 | $65-27$ | 779.375 |
| $64-28$ | 773.500 | $65-28$ | 779.500 |
| $64-29$ | 773.625 | $65-29$ | 779.625 |
| $64-30$ | 773.750 | $65-30$ | 779.750 |
| $64-31$ | 773.875 | $65-31$ | 779.875 |
| $64-32$ | 774.000 | $65-32$ | 780.000 |
| $64-33$ | 774.125 | $65-33$ | 780.125 |
| $64-34$ | 774.250 | $65-34$ | 780.250 |
| $64-35$ | 774.375 | $65-35$ | 780.375 |
| $64-36$ | 774.500 | $65-36$ | 780.500 |
| $64-37$ | 774.625 | $65-37$ | 780.625 |
| $64-38$ | 774.750 | $65-38$ | 780.750 |
| $64-39$ | 774.875 | $65-39$ | 780.875 |
| $64-40$ | 775.000 | $65-40$ | 781.000 |
| $64-41$ | 775.125 | $65-41$ | 781.125 |
| $64-42$ | 775.250 | $65-42$ | 781.250 |
| $64-43$ | 775.375 | $65-43$ | 781.375 |
| $64-44$ | 775.500 | $65-44$ | 781.500 |
| $64-45$ | 775.625 | $65--45$ | 781.625 |
| $64-46$ | 775.750 | $65-46$ | 781.750 |
| $64-47$ | 775.875 | $65-47$ | 781.875 |
|  |  |  |  |
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A66 (USA type)

|  |  |  |  |
| :--- | :--- | :--- | :--- |
| $66-01$ | 782.125 | $67-01$ | 788.125 |
| $66-02$ | 782.250 | $67-02$ | 788.250 |
| $66-03$ | 782.375 | $67-03$ | 788.375 |
| $66-04$ | 7882.500 | $67-04$ | 788.500 |
| $66-05$ | 782.625 | $67-05$ | 788.625 |
| $66-06$ | 782.750 | $67-06$ | 788.750 |
| $66-07$ | 782.875 | $67-07$ | 788.875 |
| $66-08$ | 783.000 | $67-08$ | 789.000 |
| $66-09$ | 783.125 | $67-09$ | 789.125 |
| $66-10$ | 783.250 | $67-10$ | 789.250 |
| $66-11$ | 783.375 | $67-11$ | 789.375 |
| $66-12$ | 783.500 | $67-12$ | 789.500 |
| $66-13$ | 783.625 | $67-13$ | 789.625 |
| $66-14$ | 783.750 | $67-14$ | 789.750 |
| $66-15$ | 783.875 | $67-15$ | 789.875 |
| $66-16$ | 784.000 | $67-16$ | 790.000 |
| $66-17$ | 784.125 | $67-17$ | 790.125 |
| $66-18$ | 784.250 | $67-18$ | 790.250 |
| $66-19$ | 784.375 | $67-19$ | 790.375 |
| $66-20$ | 784.500 | $67-20$ | 790.500 |
| $66-21$ | 784.625 | $67-21$ | 790.625 |
| $66-22$ | 784.750 | $67-22$ | 790.750 |
| $66-23$ | 784.875 | $67-23$ | 790.875 |
| $66-24$ | 785.000 | $67-24$ | 791.000 |
| $66-25$ | 785.125 | $67-25$ | 791.125 |
| $66-26$ | 785.250 | $67-26$ | 791.250 |
| $66-27$ | 785.375 | $67-27$ | 791.375 |
| $66-28$ | 785.500 | $67-28$ | 791.500 |
| $66-29$ | 785.625 | $67-29$ | 791.625 |
| $66-30$ | 785.750 | $67-30$ | 791.750 |
| $66-31$ | 785.875 | $67-31$ | 791.875 |
| $66-32$ | 786.000 | $67-32$ | 792.000 |
| $66-33$ | 786.125 | $67-33$ | 792.125 |
| $66-34$ | 786.250 | $67-34$ | 792.250 |
| $66-35$ | 786.375 | $67-35$ | 792.375 |
| $66-36$ | 786.500 | $67-36$ | 792.500 |
| $66-37$ | 786.625 | $67-37$ | 792.625 |
| $66-38$ | 786.750 | $67-38$ | 792.750 |
| $66-39$ | 786.875 | $67-39$ | 792.875 |
| $66-40$ | 787.000 | $67-40$ | 793.000 |
| $66-41$ | 788.125 | $67-41$ | 793.125 |
| $66-42$ | 787.250 | $67-42$ | 793.250 |
| $66-43$ | 787.375 | $67-43$ | 793.375 |
| $66-44$ | 787.500 | $67-44$ | 793.500 |
| $66-45$ | 787.625 | $67-45$ | 793.625 |
| $66-46$ | 787.750 | $67-46$ | 793.750 |
| $66-47$ | 787.875 | $67-47$ | 793.875 |
|  |  |  |  |
|  |  |  |  |

A68 (USA type)

|  |  |  |  |
| :--- | :--- | :--- | :--- |
| $68-01$ | 794.125 | $69-01$ | 800.125 |
| $68-02$ | 794.250 | $69-02$ | 800.250 |
| $68-03$ | 794.375 | $69-03$ | 800.375 |
| $68-04$ | 794.500 | $69-04$ | 800.500 |
| $68-05$ | 794.625 | $69-05$ | 800.625 |
| $68-06$ | 794.750 | $69-06$ | 800.750 |
| $68-07$ | 794.875 | $69-07$ | 800.875 |
| $68-08$ | 795.000 | $69-08$ | 801.000 |
| $68-09$ | 795.125 | $69-09$ | 801.125 |
| $68-10$ | 795.250 | $69-10$ | 801.250 |
| $68-11$ | 795.375 | $69-11$ | 801.375 |
| $68-12$ | 795.500 | $69-12$ | 801.500 |
| $68-13$ | 795.625 | $69-13$ | 801.625 |
| $68-14$ | 795.750 | $69-14$ | 801.750 |
| $68-15$ | 795.875 | $69-15$ | 801.875 |
| $68-16$ | 796.000 | $69-16$ | 802.000 |
| $68-17$ | 796.125 | $69-17$ | 802.125 |
| $68-18$ | 796.250 | $69-18$ | 802.250 |
| $68-19$ | 796.375 | $69-19$ | 802.375 |
| $68-20$ | 796.500 | $69-20$ | 802.500 |
| $68-21$ | 796.625 | $69-21$ | 802.625 |
| $68-22$ | 796.750 | $69-22$ | 802.750 |
| $68-23$ | 796.875 | $69-23$ | 802.875 |
| $68-24$ | 797.000 | $69-24$ | 803.000 |
| $68-25$ | 797.125 | $69-25$ | 803.125 |
| $68-26$ | 797.250 | $69-26$ | 803.250 |
| $68-27$ | 797.375 | $69-27$ | 803.375 |
| $68-28$ | 797.500 | $69-28$ | 803.500 |
| $68-29$ | 797.625 | $69-29$ | 803.625 |
| $68-30$ | 797.750 | $69-30$ | 803.750 |
| $68-31$ | 797.875 | $69-31$ | 803.875 |
| $68-32$ | 798.000 | $69-32$ | 804.000 |
| $68-33$ | 798.125 | $69-33$ | 804.125 |
| $68-34$ | 798.250 | $69-34$ | 804.250 |
| $68-35$ | 798.375 | $69-35$ | 804.375 |
| $68-36$ | 798.500 | $69-36$ | 804.500 |
| $68-37$ | 798.625 | $69-37$ | 804.625 |
| $68-38$ | 798.750 | $69-38$ | 804.750 |
| $68-39$ | 798.875 | $69-39$ | 804.875 |
| $68-40$ | 799.000 | $69-40$ | 805.000 |
| $68-41$ | 799.125 | $69-41$ | 805.125 |
| $68-42$ | 799.250 | $69-42$ | 805.250 |
| $68-43$ | 799.375 | $69-43$ | 805.375 |
| $68-44$ | 799.500 | $69-44$ | 805.500 |
| $68-45$ | 799.625 | $69-45$ | 805.625 |
| $68-46$ | 799.750 | $69-46$ | 805.750 |
| $68-47$ | 799.875 | $69-47$ | 805.875 |
|  |  |  |  |

AU66 (AU type)

|  |  |  |  |
| :--- | :--- | :--- | :--- |
| $66-01$ | 792.250 | $67-01$ | 799.250 |
| $66-02$ | 792.375 | $67-02$ | 799.375 |
| $66-03$ | 792.500 | $67-03$ | 799.500 |
| $66-04$ | 792.625 | $67-04$ | 799.625 |
| $66-05$ | 79.750 | $67-05$ | 799.750 |
| $66-06$ | 792.875 | $67-06$ | 799.875 |
| $66-07$ | 793.000 | $67-07$ | 800.000 |
| $66-08$ | 793.125 | $67-08$ | 800.125 |
| $66-09$ | 793.250 | $67-09$ | 800.250 |
| $66-10$ | 793.375 | $67-10$ | 800.375 |
| $66-11$ | 793.500 | $67-11$ | 800.500 |
| $66-12$ | 793.625 | $67-12$ | 800.625 |
| $66-13$ | 793.750 | $67-13$ | 800.750 |
| $66-14$ | 793.875 | $67-14$ | 800.875 |
| $66-15$ | 794.000 | $67-15$ | 801.000 |
| $66-16$ | 794.125 | $67-16$ | 801.125 |
| $66-17$ | 794.250 | $67-17$ | 801.250 |
| $66-18$ | 794.375 | $67-18$ | 801.375 |
| $66-19$ | 794.500 | $67-19$ | 801.500 |
| $66-20$ | 794.625 | $67-20$ | 801.625 |
| $66-21$ | 794.750 | $67-21$ | 801.750 |
| $66-22$ | 794.875 | $67-22$ | 801.875 |
| $66-23$ | 795.000 | $67-23$ | 802.000 |
| $66-24$ | 79.125 | $67-24$ | 802.125 |
| $66-25$ | 795.250 | $67-25$ | 802.250 |
| $66-26$ | 795.375 | $67-26$ | 802.375 |
| $66-27$ | 795.500 | $67-27$ | 802.500 |
| $66-28$ | 79.625 | $67-28$ | 802.625 |
| $66-29$ | 795.750 | $67-29$ | 802.750 |
| $66-30$ | 795.875 | $67-30$ | 802.875 |
| $66-31$ | 796.000 | $67-31$ | 803.000 |
| $66-32$ | 79.125 | $67-32$ | 803.125 |
| $66-33$ | 796.250 | $67-33$ | 803.250 |
| $66-34$ | 796.375 | $67-34$ | 803.375 |
| $66-35$ | 796.500 | $67-35$ | 803.500 |
| $66-36$ | 79.625 | $67-36$ | 803.625 |
| $66-37$ | 796.750 | $67-37$ | 803.750 |
| $66-38$ | 796.875 | $67-38$ | 803.875 |
| $66-39$ | 797.000 | $67-39$ | 804.000 |
| $66-40$ | $79 . .125$ | $67-40$ | 804.125 |
| $66-41$ | 797.250 | $67-41$ | 804.250 |
| $66-42$ | 797.375 | $67-42$ | 804.375 |
| $66-43$ | 797.500 | $67-43$ | 804.500 |
| $66-44$ | 79.625 | $67-44$ | 804.625 |
| $66-45$ | 797.750 | $67-45$ | 804.750 |
| $66-46$ | 797.875 | $67-46$ | 804.875 |
| $66-47$ | 798.000 | $67-47$ | 805.000 |
| $66-48$ | 798.125 | $67-48$ | 805.125 |
| $66-49$ | 798.250 | $67-49$ | 805.250 |
| $66-50$ | 798.375 | $67-50$ | 805.375 |
| $66-51$ | 798.500 | $67-51$ | 805.500 |
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B30/32 (USA type)

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| :--- | :--- |
| $30-01$ | 566.125 |
| $30-02$ | 566.250 |
| $30-03$ | 5666.375 |
| $30-04$ | 566.500 |
| $30-05$ | 5666.625 |
| $30-06$ | 566.750 |
| $30-07$ | 566.875 |
| $30-08$ | 567.000 |
| $30-09$ | 567.125 |
| $30-10$ | 567.250 |
| $30-11$ | 567.375 |
| $30-12$ | 567.500 |
| $30-13$ | 567.625 |
| $30-14$ | 567.750 |
| $30-15$ | 567.875 |
| $30-16$ | 568.000 |
| $30-17$ | 568.125 |
| $30-18$ | 568.250 |
| $30-19$ | 568.375 |
| $30-20$ | 568.500 |
| $30-21$ | 568.625 |
| $30-22$ | 5688.750 |
| $30-23$ | 568.875 |
| $30-24$ | 569.000 |
| $30-25$ | 569.125 |
| $30-26$ | 569.250 |
| $30-27$ | 569.375 |
| $30-28$ | 569.500 |
| $30-29$ | 569.625 |
| $30-30$ | 569.750 |
| $30-31$ | 569.875 |
| $30-32$ | 570.000 |
| $30-33$ | 570.125 |
| $30-34$ | 570.250 |
| $30-35$ | 570.375 |
| $30-36$ | 570.500 |
| $30-37$ | 570.625 |
| $30-38$ | 570.750 |
| $30-39$ | 570.875 |
| $30-40$ | 571.000 |
| $30-41$ | 571.125 |
| $30-42$ | 571.250 |
| $30-43$ | 571.375 |
| $30-44$ | 571.500 |
| $30-45$ | 571.625 |
| $30-46$ | 571.750 |
| $30-47$ | 571.875 |
|  |  |


| 31-01 | 572.125 | 32-01 | 578.125 | 33-01 | 584.125 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 31-02 | 572.250 | 32-02 | 578.250 | 33-02 | 584.250 |
| 31-03 | 572.375 | 32-03 | 578.375 | 33-03 | 584.375 |
| 31-04 | 572.500 | 32-04 | 578.500 | 33-04 | 584.500 |
| 31-05 | 572.625 | 32-05 | 578.625 | 33-05 | 584.625 |
| 31-06 | 572.750 | 32-06 | 578.750 | 33-06 | 584.750 |
| 31-07 | 572.875 | 32-07 | 578.875 | 33-07 | 584.875 |
| 31-08 | 573.000 | 32-08 | 579.000 | 33-08 | 585.000 |
| 31-09 | 573.125 | 32-09 | 579.125 | 33-09 | 585.125 |
| $31-10$ | 573.250 | 32-10 | 579.250 | 33-10 | 585.250 |
| 31-11 | 573.375 | 32-11 | 579.375 | 33-11 | 585.375 |
| 31-12 | 573.500 | 32-12 | 579.500 | 33-12 | 585.500 |
| 31-13 | 573.625 | 32-13 | 579.625 | 33-13 | 585.625 |
| $31-14$ | 573.750 | 32-14 | 579.750 | 33-14 | 585.750 |
| 31-15 | 573.875 | 32-15 | 579.875 | 33-15 | 585.875 |
| 31-16 | 574.000 | 32-16 | 580.000 | 33-16 | 586.000 |
| 31-17 | 574.125 | 32-17 | 580.125 | 33-17 | 586.125 |
| 31-18 | 574.250 | 32-18 | 580.250 | 33-18 | 586.250 |
| 31-19 | 574.375 | 32-19 | 580.375 | 33-19 | 586.375 |
| 31-20 | 574.500 | 32-20 | 580.500 | 33-20 | 586.500 |
| 31-21 | 574.625 | 32-21 | 580.625 | 33-21 | 586.625 |
| 31-22 | 574.750 | 32-22 | 580.750 | 33-22 | 586.750 |
| 31-23 | 574.875 | 32-23 | 580.875 | 33-23 | 586.875 |
| 31-24 | 575.000 | 32-24 | 581.000 | 33-24 | 587.000 |
| 31-25 | 575.125 | 32-25 | 581.125 | 33-25 | 587.125 |
| 31-26 | 575.250 | 32-26 | 581.250 | 33-26 | 587.250 |
| 31-27 | 575.375 | 32-27 | 581.375 | 33-27 | 587.375 |
| 31-28 | 575.500 | 32-28 | 581.500 | 33-28 | 587.500 |
| 31-29 | 575.625 | 32-29 | 581.625 | 33-29 | 587.625 |
| 31-30 | 575.750 | 32-30 | 581.750 | 33-30 | 587.750 |
| 31-31 | 575.875 | 32-31 | 581.875 | 33-31 | 587.875 |
| 31-32 | 576.000 | 32-32 | 582.000 | 33-32 | 588.000 |
| 31-33 | 576.125 | 32-33 | 582.125 | 33-33 | 588.125 |
| $31-34$ | 576.250 | 32-34 | 582.250 | 33-34 | 588.250 |
| 31-35 | 576.375 | 32-35 | 582.375 | 33-35 | 588.375 |
| 31-36 | 576.500 | 32-36 | 582.500 | 33-36 | 588.500 |
| 31-37 | 576.625 | 32-37 | 582.625 | 33-37 | 588.625 |
| 31-38 | 576.750 | 32-38 | 582.750 | 33-38 | 588.750 |
| 31-39 | 576.875 | 32-39 | 582.875 | 33-39 | 588.875 |
| $31-40$ | 577.000 | 32-40 | 583.000 | 33-40 | 589.000 |
| 31-41 | 577.125 | 32-41 | 583.125 | 33-41 | 589.125 |
| $31-42$ | 577.250 | 32-42 | 583.250 | 33-42 | 589.250 |
| 31-43 | 577.375 | 32-43 | 583.375 | 33-43 | 589.375 |
| 31-44 | 577.500 | 32-44 | 583.500 | 33-44 | 589.500 |
| $31-45$ | 577.625 | 32-45 | 583.625 | 33-45 | 589.625 |
| $31-46$ | 577.750 | 32-46 | 583.750 | 33-46 | 589.750 |
| 31-47 | 577.875 | 32-47 | 583.875 | 33-47 | 589.875 |

B62/64 (USA type) 62-01 $\quad 758.125$ $62-02 \quad 758.250$ $62-03 \quad 758.375$ $62-04 \quad 758.500$ $\begin{array}{ll}62-05 & 758.625\end{array}$ $\begin{array}{ll}62-06 & 758.750 \\ 62.07 & 758.875\end{array}$ $\begin{array}{ll}62-07 & 758.875 \\ 62-08 & 759.000\end{array}$ $\begin{array}{ll}62-08 & 759.000 \\ 62-09 & 759.125\end{array}$ $\begin{array}{ll}62-10 & 759.250 \\ 62-11 & 759.375\end{array}$ 62-12 $\quad 759.500$ $\begin{array}{ll}62-13 & 759.625 \\ 62-14 & 759.750\end{array}$ 62-15 759.875 $62-16 \quad 760.000$ $\begin{array}{ll}62-17 & 760.125 \\ 62-18 & 760.250\end{array}$ $\begin{array}{ll}62-18 & 760.250 \\ 62-19 & 760.375\end{array}$ $\begin{array}{ll}62-19 & 760.375 \\ 62-20 & 760.500\end{array}$ $\begin{array}{ll}62-21 & 760.625 \\ 62-22 & 760.750\end{array}$ $\begin{array}{lll}62-23 & 760.875 \\ 62-24 & 761.00\end{array}$ $\begin{array}{ll}62-24 & 766.1000 \\ 62-25 & 761.125\end{array}$


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| 66-01 $66-03$ $66-04$ $66-05$ 66-06 $66-08$ $66-09$ $66-10$ 66-11 $66-12$ $66-13$ 66-14 $66-15$ $66-16$ $66-17$ $66-18$ 66 $66-20$ $66-23$ 66-24 $66-26$ $66-27$ 66-28 $66-30$ $66-31$ 66-32 $66-35$ $66-36$ $66-37$ 66-38 66-40 $66-42$ 66-43 $66-45$ $66-46$ 66-47 |  |
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| $68-01$ <br> $68-02$ <br> $68-03$ <br> $68-04$ <br> $68-05$ <br> $68-06$ <br> $68-07$ <br> $68-08$ <br> $68-09$ <br> $68-10$ <br> $68-11$ <br> $68-12$ <br> $68-13$ <br> $68-14$ <br> $68-15$ <br> $68-16$ <br> $68-17$ <br> $68-18$ <br> $68-19$ <br> $68-20$ <br> $68-21$ <br> $68-22$ <br> $68-23$ <br> $68-24$ <br> $68-25$ <br> $68-26$ <br> $68-27$ <br> $68-28$ <br> $68-29$ <br> $68-30$ <br> $68-31$ <br> $68-32$ <br> $68-33$ <br> $68-34$ <br> $68-35$ <br> $68-36$ <br> $68-37$ <br> $68-38$ <br> $68-39$ <br> $68-40$ <br> $68-41$ <br> $68-42$ <br> $68-43$ <br> $68-44$ <br> $68-45$ <br> $68-46$ <br> $68-47$ | 794.125 794.250 794.375 794.500 794.625 794.750 794.875 795.000 795.125 795.250 795.375 795.500 795.625 795.750 795.875 796.000 796.125 796.250 796.375 796.500 796.625 796.750 796.875 797.000 797.125 797.250 797.375 797.500 797.625 797.750 797.875 798.000 798.125 798.250 798.375 798.500 798.625 798.750 798.875 799.000 799.125 799.250 799.375 799.500 799.625 799.750 799.875 |
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## Handheld Microphones

|  | WRT-847A <br> WRT-847B | WRT-867A | WRT-807A WRT-807B |
| :---: | :---: | :---: | :---: |
| UHF, PLL Synthesized System | $\bullet$ | $\bullet$ | - |
| Operating Frequency Band | 24 MHz band (WRT-847B, USA type) 14 MHz band (WRT-847A, AU type) | 12 MHz band (USA type) 14 MHz band (AU type) | 24 MHz band (WRT-807B, USA type) 14 MHz band (WRT-807A, AU type) |
| Tone Signal | $\bullet$ | $\bullet$ | $\bullet$ |
| Compander System (compressor) | $\bullet$ | - | $\bullet$ |
| Microphone Capsule | Dynamic, uni-directional (with optional CU-F780/G780) <br> Dynamic, omni-directional (with optional CU-F117) Electret condenser, uni-directional (with optional CU-E700/E672) | Dynamic, uni-directional | Dynamic, uni-directional |
| Audio-attenuator Levels | $\begin{aligned} & -12 \mathrm{~dB} \text { to }+9 \mathrm{~dB} \\ & \text { (in } 3 \mathrm{~dB} \text { steps) } \\ & \hline \end{aligned}$ | $0 \mathrm{~dB}, 6 \mathrm{~dB}$ or 12 dB | 0 dB to 21 dB (in 3 dB steps) |
| Antenna | $1 / 4$ wavelength whip antenna | Helical antenna | 1/4 wavelength whip antenna |
| RF Power Output | 50 mW or 10 mW | 10 mW | 10 mW |
| LCD Panel | Channel number, <br> Frequency in MHz, <br> Audio input status, <br> RF-output level setting (Low or High), <br> RF output status, <br> Compander time constant, <br> Attenuator level, <br> Battery reserve, <br> Accumulated operating time | Channel number | Channel number, <br> Frequency in MHz, <br> Audio input status, <br> RF output status, <br> Attenuator level, <br> Battery reserve, <br> Accumulated operating time |
| LED Indicators | - | Power-on status | - |
| Transmission of Battery Status | $\bullet$ | - | $\bullet$ |
| Battery Life | Approx. 8 hours | Approx. 5 hours | Approx. 5 hours |
| Channel Setting Back-up | $\bullet$ | $\bullet$ | $\bullet$ |
| Supplied accessories | Microphone holder (1), Stand adaptor (1), <br> Channel color seal (1), <br> Soft case (1), <br> Operating instructions (1) | Microphone holder (1), Stand adaptor (1), Channel color seal (1), Operating instructions (1) | Microphone holder (1), <br> Metal-screw stand adaptor (1), <br> Operating instructions (1) |

## Bodypack/Plug-on Transmitters

|  | WRT-8B | WRT-822A WRT-822B | WRT-8P |
| :---: | :---: | :---: | :---: |
| UHF, PLL Synthesized System | $\bullet$ | $\bullet$ | $\bullet$ |
| Operating frequency band | 24 MHz band (USA type) 14 MHz band (AU type) | 24 MHz band (WRT-822B, USA type) 14 MHz band (WRT-822A, AU type) | 24 MHz band (USA type) |
| Tone Signal | $\bullet$ | - | $\bullet$ |
| Compander System (Compressor) | - | $\bullet$ | $\bullet$ |
| Audio-attenuator Levels | 0 dB to 40 dB , continuous | 0 dB to 21 dB (in 3 dB steps) | 0 dB to 20 dB , continuous |
| Antenna | 1/4 wavelength whip antenna (removable) | 1/4 wavelength whip antenna | Integrated type |
| RF Power Output | 50 mW or 10 mW | 10 mW with WRT-822A 20 mW with WRT-822B | 250 mW or 50 mW |
| LCD Panel | Channel number, <br> Frequency in MHz, <br> Audio input status, <br> RF output level setting <br> (Low or High), <br> RF output status, <br> Battery reserve, <br> Accumulated operating time | Channel number, <br> Frequency in MHz, <br> Audio input status, <br> RF output status, <br> Attenuator level, <br> Battery reserve, <br> Accumulated operating time | Channel number, <br> Frequency in MHz, <br> Audio input status, <br> Audio input status (MIC/LINE), <br> RF output level setting (Low or High), <br> RF output status, <br> Battery reserve, <br> +48 V power status |
| LED Indicators | Audio input level (peak level) | - | Audio input level(reference level or peak level) +48 V power supply |
| Transmission of Battery Status | $\bullet$ | $\bullet$ | - |
| Audio Input Connectors | Sony 4-pin (SMC9-4S) | Sony 4-pin (SMC9-4S) | XLR type 3-pin |
| Battery Life* | Approx. 13 hours at 10 mW output Approx. 6 hours at 50 mW output | Approx. 8 hours with WRT-822A Approx. 6 hours with WRT-822B | Approx. 2.5 hours at 250 mW output Approx. 4 hours at 50 mW output |
| Channel Setting Back-up | - | - | - |
| Supplied accessories | Soft case (1), <br> Spare battery case (1), <br> Microphone cable <br> (SMC9-4P to XLR 3-pin) (1), <br> Operating instructions (1) | Leatherette case (1), Operating instructions (1) | Soft case (1), Operating instructions (1) |

## Portable Tuners

|  | WRR-862A <br> WRR-862B | WRR-855A <br> WRR-855B | WRR-861A <br> WRR-861B |
| :---: | :---: | :---: | :---: |
| UHF, PLL Synthesized System | $\bullet$ | - | $\bullet$ |
| Operating Frequency Band | 24 MHz band (WRR-862B, USA type) 14 MHz band (WRR-862A, AU type) | 24 MHz band (WRR-855B, USA type) 14 MHz band (WRR-855A, AU type) | 24 MHz band (WRU-861B, USA type) 14 MHz band (WRU-861A, AU type) |
| Space Diversity Reception System | $\bullet$ | $\bullet$ | $\bullet$ |
| Pre-programmed Frequency Groups | $\bullet$ | $\bullet$ | $\bullet$ |
| Advanced Filtering (SAW filters) | $\bullet$ | - | $\bullet$ |
| Tone Squelch Circuitry | $\bullet$ | - | $\bullet$ |
| Compander System (expander) | $\bullet$ | - | $\bullet$ |
| RF Squelch Levels | $\begin{aligned} & 5 \mathrm{~dB} \mu, 10 \mathrm{~dB} \mu, \\ & 15 \mathrm{~dB} \mu \text { or } \mathrm{OFF} \end{aligned}$ | $10 \mathrm{~dB} \mu$ or OFF | $\begin{aligned} & 5 \mathrm{~dB} \mu, 10 \mathrm{~dB} \mu, \\ & 15 \mathrm{~dB} \mu \text { or OFF } \\ & \hline \end{aligned}$ |
| LCD Panel | Channel number, <br> Frequency in MHz, RF input level, <br> Audio output status, <br> Tuner battery reserve, <br> Accumulated operating time | Channel number | Channel number, <br> Frequency in MHz , RF input level, <br> Audio output status, <br> Tuner battery reserve, Accumulated operating time |
| LED Indicators | RF input level, Diversity reception status, Transmitter battery alarm | RF input level, Audio output status | RF input level, Diversity reception status Transmitter battery alarm |
| Remote Battery Alarm of Transmitters | - | - | - |
| Audio Output Connectors | Sony 4-pin (SMC9-4S) | D-sub 15-pin | Sony 4-pin (SMC9-4S) |
| Battery Life | Approx. 5 hours | -* | Approx. 8 hours |
| Channel Setting Back-up | - | - | $\bullet$ |
| Supplied accessories | Attachment case (1), <br> Mounting plate for use with <br> optional A-8278-057-A Mounting <br> bracket (1), <br> Antennas (1 pair), <br> Output cable (SMC9-4S to XLR <br> 3 -pin) (2), <br> DC cable (1), <br> Operating instructions (1) | Antennas (1 pair), Operating instructions (1) | Attachment case (1), Mounting plate for use with optional A-8278-057-A Mounting bracket (1), <br> Antennas (1 pair), <br> Output cable (SMC9-4S to XLR <br> 3-pin) (1) <br> DC cable (1), <br> Operating instructions (1) |

*The WRR-855A/855B receive power from a camcorder via the D-sub 15-pin connector.

## Tuners

|  | MB-8N with WRU-8N | MB-806A/X6 with WRU-806AWRU-806B |
| :---: | :---: | :---: |
| UHF, PLL Synthesized System | $\bullet$ | - |
| Operating Frequency Band | 24 MHz band (USA type) 14 MHz band (AU type) | 24 MHz band (WRU-806B, USA type) 14 MHz band (WRU-806A, AU type) |
| Space Diversity Reception System | - | $\bullet$ |
| Pre-programmed Frequency Groups | $\bullet$ | $\bullet$ |
| Advanced Filtering (SAW filters) | $\bullet$ | $\bullet$ |
| Tone Squelch Circuitry | $\bullet$ | $\bullet$ |
| Compander System (expander) | $\bullet$ | $\bullet$ |
| RF Squelch Levels | $10 \mathrm{~dB} \mu, 20 \mathrm{~dB} \mu, 30 \mathrm{~dB} \mu$ or OFF | $30 \mathrm{~dB} \mu$ |
| LCD Panel | MB-8N: Menus for parameter setup WRU-8N: Channel number, Frequency in MHz, RF input level, Audio output status, | WRU-806A/806B: Channel number, Frequency in MHz, RF input level, Audio output status, Transmitter battery reserve |
| LED Indicators | WRU-8N: Diversity reception status, Audio output status, Transmitter battery alarm | WRU-806A/806B: RF input status, Audio output status Transmitter battery alarm |
| Remote Battery Alarm of Transmitters | - | $\bullet$ |
| Audio Output Connectors | XLR 3-pin type (main) and D-sub 15-pin, female (sub) | XLR 3-pin type |
| Computer-based Control | $\bullet$ | - |
| Channel Setting Back-up | - | $\bullet$ |
| Supplied accessories | MB-8N: AC power cord (1), CD-ROM containing operating instructions and MB-8N supplied software (1) <br> WRU-8N: - | MB-806A/X6: AC power cord (1) Antennas (1 pair) Operating instructions (1) <br> WRU-806A/806B: - |

## Handheld Microphones

|  | WRT-847A/847B | WRT-867A | WRT-807A/807B |
| :---: | :---: | :---: | :---: |
| Carrier frequency range: | 566 MHz to 590 MHz (U30/32) 638 MHz to 662 MHz (U42/44) 758 MHz to 782 MHz (U62/64) 782 MHz to 806 MHz (U66/68) 792 MHz to 806 MHz (AU66) | 794 MHz to 806 MHz (U68) 792 MHz to 806 MHz (AU66) | 566 MHz to 590 MHz (U30/32) 638 MHz to 662 MHz (U42/44) 758 MHz to 782 MHz (U62/64) 782 MHz to 806 MHz (U66/68) 792 MHz to 806 MHz (AU66) |
| Oscillator: | Crystal controlled PLL synthesizer | Crystal controlled PLL synthesizer | Crystal controlled PLL synthesizer |
| Type of emission: | F3E | F3E | F3E |
| RF power output: | $10 \mathrm{~mW} / 50 \mathrm{~mW}$ selectable ( $50 \Omega$ load) | 10 mW ( $50 \Omega$ load) | 10 mW ( $50 \Omega$ load) |
| Antenna: | 1/4 wave length wire antenna | Helical antenna | $1 / 4$ wave length wire antenna |
| Reference deviation: | $\pm 5 \mathrm{kHz}(94 \mathrm{~dB}$ SPL, 1 kHz ) | $\pm 5 \mathrm{kHz}(94 \mathrm{~dB}$ SPL, 1 kHz ) | $\pm 5 \mathrm{kHz}(94 \mathrm{~dB} \mathrm{SPL}, 1 \mathrm{kHz})$ |
| Frequency response: | 50 Hz to 18 kHz (typical) | 40 Hz to 20 kHz (typical) | 50 Hz to 15 kHz (typical) |
| Signal-to-noise ratio: | 60 dB or more (A-weighted, at reference deviation) | 60 dB or more (A-weighted, at reference deviation) | 60 dB or more (A-weighted, at reference deviation) |
| Audio attenuator adjustment range (pad) | -12 dB to +9 dB variable in 3 dB steps | $0,6 \mathrm{~dB}$ or 12 dB switchable | 0 to 21 dB , variable in 3 dB steps |
| 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)``` | $\begin{aligned} & 142 \mathrm{~dB} \text { SPL } \\ & \text { (with } 12 \mathrm{~dB} \text { attenuator) } \end{aligned}$ | 151 dB SPL (with 21 dB attenuator) |
| Microphone capsule: | Interchangeable (Optional) | Dynamic | Dynamic |
| Directivity: | - | Uni-directional | Uni-directional |
| Operating voltage: | DC 3.0 V (two LR6 AA-size alkaline batteries) | DC 1.5 V (one LR6 AA-size alkaline battery) | DC 1.5 V (one LR6 AA-size alkaline battery) |
| Battery life (at $25^{\circ} \mathrm{C}\left(77^{\circ} \mathrm{F}\right)$, with Sony LR6 AA-size alkaline batteries) | Approx. 8 hours | Approx. 4 hours | Approx. 5 hours |
| Dimensions: | $\varnothing 37 \times 150 \mathrm{~mm}$ ( $\varnothing 11 / 2 \times 6$ inches) | $\varnothing 51 \times 195 \mathrm{~mm}$ ( $\varnothing 21 / 8 \times 73 / 4$ inches) | $\varnothing 51 \times 238 \mathrm{~mm}(\varnothing 21 / 8 \times 93 / 8$ inches) |
| Mass: | Approx. $190 \mathrm{~g}(6.7 \mathrm{oz})$ including batteries | Approx. 325 g (11.5 oz) including battery | Approx. 440 g (15.5 oz) including battery |
| Supplied accessories: | Microphone holder (1), Stand adaptor (1), Channel color seal (1), Softcase (1), Operating instructions (1) | Microphone holder (1), Stand adaptor (1), Channel color seal (1), Operating instructions (1) | Microphone holder (1), Metal-screw stand adaptor (1), Operating instructions (1) |

## Bodypack/Plug-on Transmitters

|  | WRT-8B | WRT-822A/822B | WRT-8P |
| :---: | :---: | :---: | :---: |
| Carrier frequency range: | 566 MHz to 590 MHz (U30/32) 638 MHz to 662 MHz (U42/44) 758 MHz to 782 MHz (U62/64) 782 MHz to 806 MHz (U66/68) 792 MHz to 806 MHz (AU66) | 566 MHz to 590 MHz (U30/32) 638 MHz to 662 MHz (U42/44) 758 MHz to 782 MHz (U62/64) 782 MHz to 806 MHz (U66/68) 792 MHz to 806 MHz (AU66) | 566 MHz to 590 MHz (U30/32) 638 MHz to 662 MHz (U42/44) 758 MHz to 782 MHz (U62/64) 782 MHz to $806 \mathrm{MHz}(U 66 / 68)$ |
| Oscillator: | Crystal controlled PLL synthesizer | Crystal controlled PLL synthesizer | Crystal controlled PLL synthesizer |
| Type of emission: | F3E | F3E | F3E |
| RF power output: | 10 mW or 50 mW (e.r.p.) selectable | $\begin{aligned} & 10 \mathrm{~mW} \text { (AU-type) ( } 50 \Omega \text { load) } \\ & 20 \mathrm{~mW} \text { (USA-type) ( } 50 \Omega \text { load) } \\ & \hline \end{aligned}$ | 250 mW or 50 mW selectable |
| Antenna: | 1/4 wave length wire antenna (SMA-J type connector) | 1/4 wave length wire antenna | Integrated type |
| Reference deviation: | $\pm 5 \mathrm{kHz}$ $(-60 \mathrm{dBV}, 1 \mathrm{kHz}$ input, MIC position) $\pm 5 \mathrm{kHz}$ $(-20 \mathrm{dBu}, 1 \mathrm{kHz}$ input, LINE position $)$ | $\pm 5 \mathrm{kHz}$ (-60 dBV, 1 kHz input) | $\begin{aligned} & \pm 10 \mathrm{kHz} \\ & (-60 \mathrm{dBV}, 1 \mathrm{kHz} \text { input, MIC position) } \\ & \pm 10 \mathrm{kHz} \\ & (-18 \mathrm{dBu}, 1 \mathrm{kHz} \text { input, LINE position) } \end{aligned}$ |
| Frequency response: | 40 Hz to 20 kHz (typical) | 70 Hz to 15 kHz (typical) | 50 Hz to 18 kHz (typical) |
| Signal-to-noise ratio: | 60 dB or more (A-weighted, at reference deviation) | 60 dB <br> (A-weighted, at reference deviation) | 60 dB or more (A-weighted, at reference deviation) |
| Audio attenuator adjustment range (pad): | 0 to 40 dB , continuous | 0 to 21 dB , variable in 3 dB step | 0 dB to 20 dB , continuous |
| Max. input level: | -2 dBV (1 kHz input, MIC position) +38 dBu ( 1 kHz input, LINE position) | -3 dBV (with 21 dB attenuator) | -20 dBV ( 1 kHz input, MIC position, ATT=0 dB) +22 dBu ( 1 kHz input, LINE position, $\mathrm{ATT}=0 \mathrm{~dB}$ ) |
| Input connectors: | Sony 4-pin (SMC9-4S) (1) | Sony 4-pin (SMC9-4S) (1) | XLR type 3-pin, female |
| Operating voltage: | DC 3.0 V <br> (two LR6 AA-size alkaline batteries) | DC 3.0 V (two LR6 AA-size alkaline batteries) | $\begin{aligned} & \text { DC 9.0 V } \\ & \text { (one 6LR61 alkaline battery) } \end{aligned}$ |
| Battery life (at $25^{\circ} \mathrm{C}\left(77^{\circ} \mathrm{F}\right)$, with Sony LR6 AA-size alkaline batteries)* | Approx. 6 hours at 50 mW output Approx. 13 hours at 10 mW output | Approx. 8 hours (AU-type) Approx. 6 hours (USA-type) | Approx. 2.5 hours at 250 mW output Approx. 4 hours at 50 mW output |
| Dimensions ( $\mathrm{W} \times \mathrm{H} \times \mathrm{D}$ ): | $\begin{aligned} & 63 \times 83 \times 17 \mathrm{~mm} \\ & (21 / 2 \times 33 / 8 \times 11 / 16 \text { inches }) \\ & \hline \end{aligned}$ | $\begin{aligned} & 63 \times 103 \times 17 \mathrm{~mm} \\ & (21 / 2 \times 41 / 8 \times 11 / 16 \text { inches }) \end{aligned}$ | $\begin{aligned} & 44 \times 106 \times 44 \mathrm{~mm} \\ & (13 / 4 \times 41 / 4 \times 13 / 4 \text { inches }) \\ & \hline \end{aligned}$ |
| Mass: | Approx. $140 \mathrm{~g}(4.9 \mathrm{oz}$ ) including batteries | Approx. $145 \mathrm{~g}(5.1 \mathrm{oz}$ ) including batteries | Approx. $230 \mathrm{~g}(8.1 \mathrm{oz})$ including battery |
| Supplied accessories: | Soft case (1) , Spare battery case (1), Microphone cable (1), Operating instructions (1) | Leatherette case (1), Operating instructions (1) | $\begin{aligned} & \text { Soft case (1), } \\ & \text { Operating instructions (1) } \end{aligned}$ |

## Portable Tuners

|  | WRR-862A/862B | WRR-855A/855B | WRR-861A/861B |
| :---: | :---: | :---: | :---: |
| Receiving channels: | 2 channels | 1 channel | 1 channel |
| Receiving frequency range: | 2 frequencies within 566 MHz to 590 MHz (U30/32) <br> 2 frequencies within 638 MHz to 662 MHz (U42/44) <br> 2 frequencies within 758 MHz to 782 MHz (U62/64) <br> 2 frequencies within 782 MHz to 806 MHz (U66/68) <br> 2 frequencies within 792 MHz to 806 MHz (AU66) | 566 MHz to 590 MHz (U30/32) <br> 638 MHz to $662 \mathrm{MHz}(\mathrm{U} 42 / 44)$ <br> 758 MHz to 782 MHz (U62/64) <br> 782 MHz to 806 MHz (U66/68) <br> 792 MHz to 806 MHz (AU66) | 566 MHz to 590 MHz (U30/32) <br> 638 MHz to 662 MHz (U42/44) <br> 758 MHz to 782 MHz (U62/64) <br> 782 MHz to 806 MHz (U66/68) <br> 792 MHz to 806 MHz (AU66) |
| Local oscillators: | 1st: PLL synthesizer, 2nd: Crystal oscillator | 1st: PLL synthesizer, 2nd: Crystal oscillator | 1st: PLL synthesizer, 2nd: Crystal oscillator |
| De-emphasis: | $50 \mu \mathrm{~s}$ | $50 \mu \mathrm{~s}$ | $50 \mu \mathrm{~s}$ |
| Reference deviation: | $\pm 5 \mathrm{kHz}$ deviation at 1 kHz modulation (Maximum deviation: $\pm 40 \mathrm{kHz}$ deviation at 1 kHz modulation) | $\pm 5 \mathrm{kHz}$ deviation at 1 kHz modulation (Maximum deviation: $\pm 40 \mathrm{kHz}$ deviation at 1 kHz modulation) | $\pm 5 \mathrm{kHz}$ deviation at 1 kHz modulation (Maximum deviation: $\pm 40 \mathrm{kHz}$ deviation at 1 kHz modulation) |
| Selectivity: | 60 dB or more at $\pm 250 \mathrm{kHz}$ | 60 dB or more at $\pm 250 \mathrm{kHz}$ | 60 dB or more at $\pm 250 \mathrm{kHz}$ |
| Spurious rejection: | 70 dB or more | 80 dB or more | 70 dB or more |
| Frequency range: | 40 Hz to 18 kHz (typical) | 40 Hz to 18 kHz (typical) | 40 Hz to 18 kHz (typical) |
| Signal-to-noise ratio: | 60 dB or more ( 65 dB typical) at $60 \mathrm{~dB} \mu \mathrm{RF}$ input at reference deviation, A-weighted | 60 dB or more at $60 \mathrm{~dB} \mu \mathrm{RF}$ input at reference deviation, A-weighted | 60 dB or more ( 65 dB typical) at $60 \mathrm{~dB} \mu \mathrm{RF}$ input at reference deviation, A-weighted |
| RF muting (squelch) level: | $5 \mathrm{~dB} \mu, 10 \mathrm{~dB} \mu, 15 \mathrm{~dB} \mu$ or OFF | $10 \mathrm{~dB} \mu$ or OFF | $5 \mathrm{~dB} \mu, 10 \mathrm{~dB} \mu, 15 \mathrm{~dB} \mu$ or OFF |
| Audio output level: | -58 dBm at reference deviation | -40 dBu at reference deviation | -58 dBm at reference deviation |
| Audio output connector: | SMC9-4S (Sony 4-pin, x 2), balanced | D-sub 15-pin (1), unbalanced | SMC9-4S (Sony 4-pin) (1), balanced |
| Antenna connector: | BNC-R type (2), $50 \Omega$ (nominal) | BNC-R type (2), $50 \Omega$ (nominal) | BNC-R type (2), $50 \Omega$ (nominal) |
| Monitor output connector: | 3.5 mm dia. mini jack ( $\times 1,5 \mathrm{~mW}$ ), Tuner 1/2/Mixed selectable | - | 3.5 mm dia. stereo mini jack ( $\times 1,5 \mathrm{~mW}$ ) |
| Operating voltage: | Batteries: DC 6 V <br> (four LR6 AA-size alkaline batteries) <br> External: DC 12 V | External: DC 7 V | Batteries: DC 6 V <br> (four LR6 AA-size alkaline batteries) <br> External: DC 12 V |
| Battery life (at $25^{\circ} \mathrm{C}\left(77^{\circ} \mathrm{F}\right.$ ), with Sony LR6 AA-size alkaline batteries) | Approx. 5 hours | - | Approx. 8 hours |
| Current (power) consumption: | Batteries: approx. 230 mA at DC 6 V External: approx. 135 mA at DC 12 V | 200 mA or less at external DC 7 V | Batteries: approx. 140 mA at DC 6 V External: approx. 85 mA at DC 12 V |
| Dimensions ( $\mathrm{W} \times \mathrm{H} \times \mathrm{D}$ ): | $\begin{aligned} & 89.0 \times 120.0 \times 29.5 \mathrm{~mm} \\ & (35 / 8 \times 43 / 4 \times 13 / 16 \text { inches }) \end{aligned}$ | $\begin{aligned} & 88.0 \times 119.0 \times 31.3 \mathrm{~mm} \\ & (31 / 2 \times 43 / 4 \times 11 / 4 \text { inches }) \\ & \hline \end{aligned}$ | $\begin{aligned} & 89.0 \times 120.0 \times 29.5 \mathrm{~mm} \\ & \left(35 / 8 \times 4^{3 / 4} \times 1^{3 / 16} \text { inches }\right) \end{aligned}$ |
| Mass: | Approx. 400 g ( 14.1 oz ) including batteries | Approx. 280 g ( 10.0 oz ) | Approx. 400 g ( 14.1 oz ) including batteries |
| Supplied accessories: | Attachment case (1), <br> Mounting plate for use with optional A-8278-057A mounting bracket (1), Antennas (1 pair), Output cables (2), DC cable (1), <br> Operating instructions (1) | Antennas (1 pair), Operating instructions (1) | Attachment case (1), <br> Mounting plate for use with optional A-8278-057A mounting bracket (1), Antennas (1 pair), output cable (1), DC cable (1), <br> Operating instructions (1) |

## Tuners

|  | WRU-8N | WRU-806A/806B |
| :---: | :---: | :---: |
| Receiving channels: | 1 channel | 1 channel |
| Receiving frequency range: | 566 MHz to 590 MHz (U30/32) 638 MHz to $662 \mathrm{MHz}(\mathrm{U} 42 / 44)$ 758 MHz to 782 MHz (U62/64) 782 MHz to 806 MHz (U66/68) 792 MHz to 806 MHz (AU66) | 566 MHz to 590 MHz (U30/32) 638 MHz to $662 \mathrm{MHz}(\mathrm{U} 42 / 44)$ 758 MHz to 782 MHz (U62/64) 782 MHz to 806 MHz (U66/68) 792 MHz to 806 MHz (AU66) |
| Local oscillators: | PLL synthesizer | 1st: PLL synthesizer, 2nd: Crystal oscillator |
| De-emphasis: | $50 \mu \mathrm{~s}$ | $50 \mu \mathrm{~s}$ |
| Reference deviation: | $\pm 5 \mathrm{kHz}$ deviation at 1 kHz modulation (Maximum deviation: $\pm 40 \mathrm{kHz}$ deviation at 1 kHz modulation) | $\pm 5 \mathrm{kHz}$ deviation at 1 kHz modulation (Maximum deviation: $\pm 40 \mathrm{kHz}$ deviation at 1 kHz modulation) |
| Selectivity: | 60 dB or more at $\pm 250 \mathrm{kHz}$ | 60 dB or more at $\pm 250 \mathrm{kHz}$ |
| Frequency range: | 40 Hz to 20 kHz (typical) | 70 Hz to 18 kHz (typical) |
| Signal-to-noise ratio: | 60 dB or more ( 65 dB typical) at $60 \mathrm{~dB} \mu \mathrm{RF}$ input at reference deviation, A-weighted | 60 dB or more at $60 \mathrm{~dB} \mu$ RF input at reference deviation, deviation, A-weighted |
| RF muting (squelch) level: | $10 \mathrm{~dB} \mu, 20 \mathrm{~dB} \mu, 30 \mathrm{~dB} \mu$ or off | $30 \mathrm{~dB} \mu$ |
| Operating voltage: | DC 5 V (supplied from MB-8N) | DC 9 V (supplied from MB-806A) |
| Current (power) consumption: | 260 mA or less | 225 mA or less |
| Dimensions (W $\times \mathrm{H} \times \mathrm{D}$ ): | $\begin{aligned} & 56.0 \times 30.7 \times 149.0 \mathrm{~mm} \\ & (21 / 4 \times 11 / 4 \times 57 / 8 \text { inches }) \end{aligned}$ | $\begin{aligned} & 57 \times 26 \times 122 \mathrm{~mm} \\ & \left(21 / 4 \times 11 / 16 \times 4^{7} / 8 \text { inches }\right) \end{aligned}$ |
| Mass: | Approx. $165 \mathrm{~g} \mathrm{(5.8} \mathrm{oz)}$ | Approx. $160 \mathrm{~g} \mathrm{(5.7} \mathrm{oz)}$ |
| Supplied accessories: | - | Operating instructions (1) |

## Tuner Base Units

|  | MB-8N | MB-806A | MB-X6 |
| :---: | :---: | :---: | :---: |
| Receiving channels: | 4 channels when accommodating 4 WRU-8N tuner modules | 6 channels when accommodating 6 WRU-806A/806B tuner modules | 6 channels when accommodating 6 WRU-806A/806B tuner modules |
| Receiving frequency range: | 566 MHz to 806 MHz (USA type) 758 MHz to 862 MHz (AU type) | 758 MHz to 806 MHz (USA type) 758 MHz to 862 MHz (AU type) | 758 MHz to 806 MHz (USA type) 758 MHz to 862 MHz (AU type) |
| Audio output level: | -20 dBm (LINE)/-58 dBm (MIC) at reference deviation | -20 dBm (LINE)/-58 dBm (MIC) at reference deviation | -20 dBu (LINE)/-58 dBu (MIC) at reference deviation |
| Audio output connector: | XLR-3-32 type (4), balanced D-sub 15-pin (1) for sub output, female, unbalanced | XLR-3-32 (7), balanced | XLR-3-32 (7), balanced |
| Antenna attenuator level: | $0 \mathrm{~dB}, 5 \mathrm{~dB}, 10 \mathrm{~dB}, 15 \mathrm{~dB}$ | 0 dB or 10 dB | 0 dB or 10 dB |
| Antenna connector: | Inputs: BNC-R type ( $\times 2$ ), $50 \Omega$ (nominal) <br> Outputs (for cascade connection): <br> BNC-R type (2), $50 \Omega$ (nominal) | Inputs: BNC-R type (2), $50 \Omega$ (nominal) | Inputs: BNC-R type (2), $50 \Omega$ (nominal) |
| Monitor output level: | 5 mW or more ( 24 to $45 \Omega$ load) | - | - |
| Monitor output connector: | 6.3 mm dia, stereo mini jack (1) | - | - |
| Network connector | RJ-45 (1), 10BASE-T | - | - |
| Operating voltage: | AC $120 \mathrm{~V}, 60 \mathrm{~Hz}$ (USA-type) AC 100 to $240 \mathrm{~V}, 50 / 60 \mathrm{~Hz}$ (AU-type) | AC $120 \mathrm{~V}, 60 \mathrm{~Hz}$ (USA-type) AC 220 to $240 \mathrm{~V}, 50 / 60 \mathrm{~Hz}$ (AU-type) | AC $120 \mathrm{~V}, 60 \mathrm{~Hz}$ (USA-type) AC $230 \mathrm{~V}, 50 / 60 \mathrm{~Hz}$ (AU-type) |
| Current (power) consumption: | 50 W when accommodating four WRU-8N tuner modules | 30 W when accommodating six WRU-806A/806B tuner modules | 30 W when accommodating six WRU-806A/806B tuner modules |
| Dimensions ( $\mathrm{W} \times \mathrm{H} \times \mathrm{D}$ ): | $\begin{aligned} & 482 \times 44 \times 300 \mathrm{~mm} \\ & \left(19 \times 13 / 4 \times 11^{7} / 8 \text { inches }\right) \end{aligned}$ | $\begin{aligned} & 482 \times 44 \times 300 \mathrm{~mm} \\ & (19 \times 13 / 4 \times 117 / 8 \text { inches }) \end{aligned}$ | $\begin{aligned} & 482 \times 44 \times 285 \mathrm{~mm} \\ & (19 \times 13 / 4 \times 111 / 4 \text { inches }) \end{aligned}$ |
| Mass: | Approx. 3.7 kg (8 lb 6 oz ) | Approx. 3.6 kg ( 7 lb 15 oz ) | Approx. 5.5 kg ( 12 lb 2 oz ) |
| Supplied accessories: | AC power cord (1), Antennas (1 pair), CD-ROM (contains operating instructions and MB-8N supplied software) (1) | AC power cord (1), Antennas (1 pair), Operating instructions (1) | AC power cord (1), Antennas (1 pair), <br> Operating instructions (1) |

## Antenna Dividers

|  | WD-850 | WD-880A |
| :---: | :---: | :---: |
| Frequency range: | 566 MHz to 806 MHz (USA type) 758 MHz to 862 MHz (AU type) | 770 MHz to 806 MHz (USA type) 792 MHz to 806 MHz (AU type) |
| Channel distribution: | Inputs: 2 pairs Outputs: 4 pairs | USA type; Inputs: 1 pairOutputs: 6 pairs (for 6 TV channels)AU type;Inputs: 2 pairs <br>  <br> Outputs: 3 pairs |
| Input/output impedance: | $50 \Omega$ | $50 \Omega$ |
| Cascade output: | 1 pair | USA type: 0 AU type: 1 pair |
| Power supply for antenna booster: (supplied from antenna input connectors) | DC $12 \mathrm{~V} / 9 \mathrm{~V} / \mathrm{OFF}$ switchable | DC $12 \mathrm{~V} / 9 \mathrm{~V} / \mathrm{OFF}$ switchable |
| Power consumption: | 16 W | 10 W |
| Dimensions (W $\times \mathrm{H} \times \mathrm{D}$ ): | $482 \times 44 \times 300 \mathrm{~mm}(19 \times 13 / 4 \times 117 / 8$ inches) | $482 \times 44 \times 300 \mathrm{~mm}(19 \times 13 / 4 \times 117 / 8$ inches) |
| Mass: | Approx. 4.6 kg ( 10 lb 2 oz ) | Approx. 4.0 kg (8 lb 13 oz ) |
| Supplied accessories: | $50 \Omega$ BNC terminators (6) | AC power cord (1) |

## Appendix

## Multi-channel simultaneous operations

The Sony wireless microphone system allows a wide variety of multi-channel systems to be flexibly configured to meet individual requirements.

The number of channels that can be simultaneously operated using
One Version of B-series (UsA-type) Products (without use of a WD-880A) is as follows;


The number of channels that can be simultaneously operated using
the B30/32 and B62/64 Combination (without use of a WD-880A) is as follows;


The number of channels that can be simultaneously operated using
the B62/64 and B66/68 Combination (without use of a WD-880A) is as follows;

| TV 62 ch | TV 63 ch | TV 64ch | TV 65 ch | TV 66 ch | TV 67 ch | TV 68 ch | TV 69 ch |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TV | TV 63 ch | TV | TV 65 ch | TV | TV 67 ch | TV | TV 69 ch |
| or |  |  |  |  |  |  |  |
| TV 62 ch | TV | TV 64 ch | TV | TV 66 ch | TV | TV 68 ch | TV |

The number of channels that can be simultaneously operated using
the B30/32, B42/44 and B62/64 Combination (without use of a WD-880A) is as follows;


When either all even or all odd TV channels are available
up to 33-channel simultaneous operation is possible.

The number of channels that can be simultaneously operated using
the AII B-series Combination (without use of a WD-880A) is as follows;


When all 16 TV channels are available;
up to 54-channel simultaneous operation is possible.


When either all even or all odd TV channels are available; up to 38-channel simultaneous operation is possible.

The number of channels that can be simultaneously operated using
One Version of A-series (USA-type) Products (without use of a WD-880A) is as follows;


| TV 68 ch | TV 69 ch | When both two TV channels are available, up to 11-channel simultaneous operation is available |
| :---: | :---: | :---: |
| TV | TV 69 ch | When one TV channel is available, |
| TV 68 ch | TV | up to 8-channel simultaneous operation is possible. |

The number of channels that can be simultaneously operated using
Two of the Three A-series (USA-type) Products (without use of a WD-880A) is as follows;

| TV 64 ch | TV 65 ch | TV 68 ch | TV 69 ch | When all four channels are available, up to 16 -channel simultaneous operation is possible. |
| :---: | :---: | :---: | :---: | :---: |
| TV | TV 65 ch | TV | TV 69 ch | hen either all even or all odd TV channels are availa |
| TV 64 ch | TV | TV 68 ch | TV | up to 11-channel simultaneous operation is possible. |

The number of channels that can be simultaneously operated using
All USA-Type A64/A66/A68 Combination (without use of a WD-880A) is as follows;

| TV 64ch | TV 65 ch | TV 66 ch | TV 67 ch | TV 68 ch | TV 69 ch | When all six TV channels are available, up to 19-channel simultaneous operation is |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| TV | TV 65 ch | TV | TV 67 ch | TV | TV 69 ch | When either all even or all odd TV channels are available, up to 13-channel simultaneous operation is possible. |
|  |  |  |  |  |  |  |
| TV 64 ch | TV | TV 66 ch | TV | TV 68 ch | TV |  |

The number of channels that can be simultaneously operated using
the AU Products (without use of a WD-880A) is as follows;

| z 806 MHz |  |  |
| :---: | :---: | :---: |
| A66 |  |  |
| (14 MHz band) |  | When both two TV channels (66 and 67) are available, up to 12 -channel simultaneous operation is available. |
| TV 66 ch | TV 67 ch |  |
| TV | TV 67 ch | When one of the two TV channels is available, |
| or |  | up to 9-channel simultaneous operation is po |
| TV 66 ch | TV |  |

## Appendix

## Tuner and Camcorder Combinations

|  | HDCAM Camcorders |  | Digital Betacam Camcorders | XDCAM Camcorders |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | HDW-F900R/750/750P |  |  | PDW-530/530P/510/510P |  |
| Built-in Wireless Slot | Yes | Yes | Yes | Yes |  |
| DC Output for Wireless Tuner | Yes | Yes | Yes | Yes |  |
| Tuner |  |  |  |  |  |
| Interfaces <br> Mic-input Connector | XLR 5-pin (x1) | XLR 3-pin (x1) | XLR 3-pin (x1) | XLR 3-pin (x1) |  |
| Audio-input Connector | XLR 3-pin (x2) | XLR 3-pin (x2) | XLR 3-pin (x2) | XLR 3-pin (x2) |  |
|  |  |  |  |  |  |
|  | WRR-855A/855B (1ch) | WRR-855A/855B (1ch) | WRR-855A/855B (1ch) | WRR-855A/855B (1ch) |  |
|  | Direct slot-in | Direct slot-in | Direct slot-in | Direct slot-in |  |
|  | WRR-861A/861B (1ch) | WRR-861A/861B (1ch) | WRR-861A/861B (1ch) | WRR-861A/861B (1ch) |  |
| Applicable Wireless Microphone Tuners | Requires A-8278-057-A Mount Bracket | Requires A-8278-057-A <br> Mount Bracket | Requires A-8278-057-A <br> Mount Bracket | Requires A-8278-057-A Mount Bracket |  |
|  | WRR-862A/862B (2ch) | WRR-862A/862B (2ch) | WRR-862A/862B (2ch) | WRR-862A/862B (2ch) |  |
|  | Requires A-8278-057-A Mount Bracket | Requires A-8278-057-A <br> Mount Bracket | Requires A-8278-057-A Mount Bracket | Requires A-8278-057-A Mount Bracket |  |


| MPEG IMX Camcorders | XDCAM HD Camcorders | DVCAM Camcorders |  |
| :---: | :---: | :---: | :---: |
| MSW-970/970P | PDW-F350/F330 | DSR-400/400P/450WS/450WSP | DSR-250/250P |
| Yes | No | No | No |
| Yes | Yes | Yes | Yes |
| XLR 3-pin (x1) | XLR 5-pin (x1) | XLR 3-pin (x1) | XLR 3-pin (x1) |
| XLR 3-pin (x2) | XLR 3-pin (x2) | XLR 3-pin (x2) | XLR 3-pin (x2) |
| WRR-855A/855B (1ch) | WRR-855A/855B (1ch) | WRR-855A/855B (1ch) | - |
| Direct slot-in | Requires CA-WR855 Mount Adaptor | Requires CA-WR855 Mount Adaptor | - |
| WRR-861A/861B (1ch) | WRR-861A/861B (1ch) | WRR-861A/861B (1ch) | WRR-861A/861B (1ch) |
| Requires A-8278-057-A <br> Mount Bracket | Requires A-8278-057-A <br> Mount Bracket | Requires A-8278-057-A <br> Mount Bracket | Requires A-8278-057-A <br> Mount Bracket |
| WRR-862A/862B (2ch) | WRR-862A/862B (2ch) | WRR-862A/862B (2ch) | WRR-862A/862B (2ch) |
| Requires A-8278-057-A Mount Bracket | Requires A-8278-057-A Mount Bracket | Requires A-8278-057-A Mount Bracket | Requires A-8278-057-A Mount Bracket |

## SONY.

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[^0]:    * Requires an interface box between the SRP-X700P and external device.

