Performance you've always wanted at a price you never expected.

They're used in broadcasting for everything from network news, to talk shows to soap operas. They're used when rock and roll headliners hit the stadium circuit, and for Broadway musicals. Sony's 800 Series UHF Wireless Microphone Systems are the stuff of pro audio legend. But until now, this high performance has only been available to musicians and producers with deep pockets.

Now Sony changes all that with the latest additions to the 800 MHz UHF Wireless Microphone family. Now you're free from the interference, distortion and assorted hash of the crowded VHF band. You're free to mix and match mics, body packs and receivers with the rest of Sony's 800 Series. And you're free to step up to the UHF world, even if your budget is firmly rooted in the real world.
800 MHz UHF Transmission Quality
If you want to escape the walkie-talkies, CB radios and hash of the VHF band, step up to 800 MHz UHF. As with previous Sony 800 MHz wireless products, these new 800 Series components bring you all the benefits of Sony engineering, offering a choice of 94 wireless channels, in the range from 794 to 806 MHz.*

* Frequencies and TV bands differ in versions shipped to other countries.

Frequency-Agile Frequency-Synthesis Tuning
Because RF interference can change from venue to venue -- and from night to night -- Sony's wireless systems can also change. You get your choice of 94 wireless channels, available to switch at a moment's notice. This ability, made possible by Sony Frequency Synthesis Tuning, is your first line of defense against all those other potential sources of interference.

Space Diversity Reception for Added Protection
If you've ever listened to a car radio in a traffic jam, you know that small changes in location can make a big difference in radio reception. The same is true when "talent" moves about the stage with a wireless mic. Sony's defense against the threat of multipath distortion is by equipping our receivers with Space Diversity Reception. The system uses two receiving antennas, some distance apart. The tuner constantly compares the signal from both antennas -- and chooses the best one!

Main Features

WRT-800A
UHF Synthesized Wireless Handheld Microphone
- Wide-cardioid electret condenser capsule
- Up to 12 hours of continuous operation with a single AA-sized (LR6) alkaline battery. RF power output: 5 mW.
- Battery alarm transmitted to compatible receivers
- Ergonomic grip
- Low profile miniature helical antenna
- Easily detachable mic holder (supplied) for use on a stand

WRT-805A
UHF Synthesized Body Pack Transmitter
- Smoothly tapered body pack with compact, lightweight design
- Battery alarm transmitted to compatible receivers
- LCD for display of channel, attenuator and accumulated operating hours
- Up to 6 hours of continuous operation with a single AA-size (LR6) alkaline battery.
- RF power output: 10 mW.
- 3-pole mini jack with a lock mechanism for secure lavaliere cable clamping
- Switchable -40 dB/60 dB input level and PHASE switches for guitar and lavaliere microphone
- Microphone options:
  GC-0.7MP Guitar Cable, ECM-44BMA/ECM-121BMP/ECM-122BMP Electret Condenser Microphone and ECM-310BMP Electret Condenser Headset Microphone
- Low profile miniature helical antenna
Freedom Of Operational Convenience

Remote Battery Alarm On Receiver
For added assurance of continued operation, you can now monitor the battery reserves of both the handheld and body pack transmitters; the power indicator on the handheld mic goes off, and the battery indicator on LCD starts flashing on the body pack transmitter, both indicating one hour before the batteries go dead. On the receiver, the battery indicator on the LED and LCD displays also flash, helping to avoid the chance of battery failure at a critical moment.

Long Operating Time with A Single AA-size (LR6) Alkaline Battery
The handheld mic offers up to 12 hours of continuous operation, and 6 hours for the body pack transmitter are guaranteed with only one single AA-size (LR6) alkaline battery.

Comprehensive LCD
For operational convenience, an easy-to-read LCD (Liquid Crystal Display) is built into the body pack transmitter and receivers to provide various information such as battery status indication, accumulated operating hours, operating channel, and attenuation.

Modular Design for 6 or 11 Simultaneous Channels
The WRR-801A receiver comes with a single WRU-801A diversity receiver module, and features expansion slots for 5 additional receivers, with an internal antenna divider for six channels of diversity operation in a single rack space. With the optional WD-820A Antenna Divider, you can go even further, with up to 11 wireless mics operating simultaneously on a single pair of AN-820A active antennas!

WRR-800A UHF Synthesized Diversity Tuner
- Single-channel Space Diversity Tuner
- Half 19-inch rack width and 1U height
- AF, RF, and battery alarm indication by both LED and LCD to double check operating condition (channel indication by LCD only)
- Output volume control
- Balanced output connector with 6.3 mm (1/4-inch) dia. TRS phone jack
- Supplied portable front-mounted passive antennas

WRR-801A UHF Synthesized Diversity Tuner
- Modular design, 1U height 19-inch rack
- Supplied with one WRU-801A receiver module, with room for another 5 to accommodate up to six simultaneous channels of operation
- Up to 11 simultaneous channels on a single pair of AN-820A active Antennas with optional WD-820A Antenna Divider
- Space Diversity Reception for dependable RF reception
- AF, RF, and battery alarm indication by both LED and LCD to double check operating condition (channel indication by LCD only)
Auto Channel Assignment
The WRU-801A receiver also features a convenient auto channel assignment function that, once an operating group is set on the supplied WRU-801A receiver, channels within the same group are automatically assigned and usable channels for the additional receivers will be automatically detected and skipped, enabling instant and automatic multichannel setting of the entire rack of receivers.

Compatible with Sony's existing 800 Series
You can mix and match these new wireless components with previous Sony 800 Series components as you please! Use the new body pack transmitters and mics with your existing receivers -- or use existing transmitters with the new receivers.

Single Systems Right Out Of The Box Ready To Go

Application-specific Packages
Sony now offers a complete single channel diversity package to suit your application needs. Three packages are available:

**WRT-8GP Guitar Pack:**
- WRT-805A Transmitter + WRR-800A Tuner + GC-0.7MP Guitar Cable

**WRT-8HP Handheld Pack:**
- WRT-800A Wireless Microphone + WRR-800A Tuner

**WRT-8LP Lavalier Pack:**
- WRT-805A Transmitter + WRR-800A Tuner + ECM-122BMP Lavalier Mic

- Auto channel assignment of additional receiver modules for instant programming of interference-free multichannel operation
- Balanced output connectors with 6.3 mm (1/4-inch) dia. TRS phone jacks, six channel mono mix output
- RF input attenuator (10 dB/0 dB) switch
- Supplied passive antennas for rear mounting (with provision for front mounting)

WRU-801A UHF Synthesized Tuner Unit
- Dedicated plug-in diversity receiver module for WRU-801A
- Space Diversity Reception for dependable RF reception

WRU-801A

Channel Allocation

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System Configuration

Single-Channel System
Example 1
- WRT-800A

Example 2
- WRT-805A
- WRR-800A
- OR
- WRR-801A

6-Channel System
- WRT-800A or WRT-805A x 6
- WRR-801A

11-Channel System
- WRT-800A or WRT-805A x 11
- AN-820A x 2 (Option)
- AN-820A (Option)
- WD-820A (Option)
- WRR-801A x 2

Options for WRT-805A Transmitter
- Electret Condenser Microphone ECM-310BMP
- Electret Condenser Microphone ECM-44BMP
- Guitar Cable GC-0.7MP
- Electret Condenser Microphone ECM-121BMP/122BMP
Optional Accessories

**GC-0.7MP Guitar Cable**
- Use with WRT-805A Body Pack Transmitter
- Special active guitar cable for high quality reproduction of guitar sound
- 3-pole mini plug with a lock mechanism for secure cable clamping
- Cable 5.5 mm (7/32 inches) dia. x 0.7 m (27 5/8 inches) long

**ECM-44BMP Electret Condenser Microphone**
- Omni-directional
- High sound quality
- 3-pole mini plug with a lock mechanism for secure cable clamping
- Mic head: 8.5 mm (11/32 inches) dia. x 14.5 mm (19/32 inches)

**ECM-121BMP/122BMP Electret Condenser Microphone**
- Omni-directional
- 3-pole mini plug with a lock mechanism for secure cable clamping
- Mic head: 8.5 mm (11/32 inches) dia. x 17 mm (11/16 inches)
- Mic cable length: ECM-121BMP = 0.2 m (7 7/8 inches), ECM-122BMP = 1.2 m (47 1/4 inches)

**ECM-310BMP Electret Condenser Microphone**
- Headset-style microphone
- Wide cardioid capsule
- Lightweight, with flexible microphone positioning for optimum voice pick-up
- 3-pole mini plug with a lock mechanism for secure cable clamping

**WD-820A UHF Antenna Divider**
- Up to four diversity distribution outputs
- Connection of up to four antennas
- DC 9 V power supply for the AN-820A UHF Antenna
- Cascade connection

**AN-820A UHF Antenna**
- Built-in amplifier for signal compensation, 10 dB gain to compensate for cable loss
- External powering from the WRR-801A or WD-820A via coaxial cable
- Used in pairs for diversity reception
- LED for power indication
- Easy installation on a wall or in a microphone stand with the supplied adaptor
### Specifications

**WRT-600A**

- **Carrier frequency:** 734 MHz to 806 MHz (U 68 only)
- **Oscillator:** Crystal controlled PLL synthesizer
- **Type of emission:** 110K3FE
- **RF power output:** 5 mW (900 Ω load)
- **Antenna:** 1/4 wave length helical antenna
- **Reference deviation:** ±5 kHz (94 dB SPL, 1 kHz)
- **Frequency response:** 100 Hz to 15,000 Hz
- **Signal-to-noise ratio:** 57 dB (A-weighted)
- **Attenuator adjustment range (pad):** -21 dB, variable in 3 dB steps
- **Max. input sound pressure level:** 128 dB SPL (at 1 kHz)
- **Max. input level:** 94 dB SPL
- **Input connector:** Electret condenser
- **Microphone capsule:** Uni-directional
- **Operating voltage:** 1.5 V AA-size LR6 alkaline battery
- **Battery life:** Approx. 12 hours (LR6) AA-size alkaline battery (1)
- **Dimensions:** 55 x 216 mm (2 2/4 x 8 5/8 inches) (Max. dia. x length)
- **Mass:** Approx. 200 g (7 1/2 oz) w/ battery
- **Supplied accessories:** Warranty card (1)
	- Microphone holder (1)	- SAC-3 Stand Screw Adaptor (1)

**WRT-605A**

- **Carrier frequency:** 734 MHz to 806 MHz (U 68 only)
- **Oscillator:** Crystal controlled PLL synthesizer
- **Type of emission:** 110K3FE
- **RF power output:** 10 mW (900 Ω load)
- **Antenna:** 1/4 wave length helical antenna
- **Reference deviation:** ±5 kHz (60 dBV, 1 kHz input)
- **Frequency response:** 70 Hz to 15,000 Hz
- **Signal-to-noise ratio:** 57 dB (A-weighted)
- **Attenuator adjustment range (pad):** -21 dB, variable in 3 dB steps
- **Max. input sound pressure level:** 17 dBV (+40 dBV position, attenuator 21 dB)
- **Max. input level:** -40 dBV (+16 kHz deviation at 1 kHz modulation)
- **Input connector:** Electret condenser
- **Microphone capsule:** Uni-directional
- **Operating voltage:** 1.5 V AA-size LR5 alkaline battery
- **Battery life:** Approx. 6 hours (LR5) AA-size alkaline battery (1)
- **Dimensions:** 55 x 216 mm (2 2/4 x 8 5/8 inches) (Max. dia. x length)
- **Mass:** Approx. 100 g (3.5 oz) w/ battery
- **Supplied accessories:** Warranty card (1)
	- Microphone holder (1)

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**WR-900A**

- **Receiving frequency:** 734 MHz to 806 MHz (U 68 only)
- **Oscillator:** Crystal controlled PLL synthesizer
- **Type of reception:** 110K3FE
- **Reference deviation:** ±5 kHz
- **Selectivity:** More than 60 dB
- **Spurious rejection:** More than 70 dB
- **Frequency range:** 120 Hz to 15,000 Hz
- **Signal-to-noise ratio:** More than 60 dB (A-weighted)
- **Harmonic distortion:** Less than 1.0 %
- **RF muting level:** 30 dBu
- **Audio output level:** 0 dBm (±16 kHz deviation at 1 kHz modulation)
- **Audio output connector:** TRS phone, 6.3 mm (1/4 inch) dia., balanced
- **Antenna connector:** BNC-R type
- **Power consumption:** DC 9 V
- **Operating voltage:** 500 mA
- **Current consumption:** 150 mA
- **Dimensions (W x H x D):** 216 x 44 x 210 mm (8 3/8 x 1 3/4 x 8 5/8 inches)
- **Mass:** Approx. 1 3/8 kg (3 lb 8 oz)
- **Supplied accessories:** Warranty card (1)
	- AC power adaptor (1)
	- Antenna (1)

**WR-915A**

- **Receiving frequency:** 734 MHz to 806 MHz (U 68 only)
- **Oscillator:** Crystal controlled PLL synthesizer
- **Type of reception:** 110K3FE
- **Reference deviation:** ±5 kHz
- **Selectivity:** More than 60 dB
- **Spurious rejection:** More than 70 dB
- **Frequency range:** 120 Hz to 15,000 Hz
- **Signal-to-noise ratio:** More than 60 dB (A-weighted)
- **Harmonic distortion:** Less than 1.0 %
- **RF muting level:** 30 dBu
- **Audio output level:** 0 dBm (±16 kHz deviation at 1 kHz modulation)
- **Audio output connector:** TRS phone, 6.3 mm (1/4 inch) dia., balanced
- **Antenna connector:** BNC-R type
- **Power consumption:** DC 9 V
- **Operating voltage:** 150 mA
- **Current consumption:** 150 mA
- **Dimensions (W x H x D):** 482 x 44 x 300 mm (18 1/2 x 1 3/4 x 12 inches)
- **Mass:** Approx. 3.6 kg (8 lb 6 oz)
- **Supplied accessories:** Warranty card (1)

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**ECM-310BMP**

- **Capsule type:** Electret condenser
- **Frequency range:** 70 to 12,000 Hz
- **Directivity:** Wide cardioid
- **Sensitivity:** -44 dB (6 mV) ±3 dB
- **Microphone cable:** 1.2 m (47 1/4 inches)
- **Output connector:** 3.5 mm (9/32 inches) dia.
- **Microphone head:** 10 mm (3/8 inches) dia.
- **Microphone finish:** Black
- **Supplied accessories:** Wind screen (1)

**ECM-44BMP**

- **Capsule type:** Electret condenser
- **Frequency range:** 70 to 15,000 Hz
- **Directivity:** Omni-directional
- **Sensitivity:** -40 dB (10 mV) ±3 dB
- **Microphone cable:** 1.2 m (47 1/4 inches)
- **Output connector:** 3.5 mm (9/32 inches) dia.
- **Microphone head:** 10 mm (3/8 inches) dia.
- **Microphone finish:** Black
- **Supplied accessories:** Wind screen (1)

**ECM-121BMP/122BMP**

- **Capsule type:** Electret condenser
- **Frequency range:** 100 to 10,000 Hz
- **Directivity:** Omni-directional
- **Sensitivity:** -41 dB (6 mV)
- **Microphone cable:** 0.2 m (7 7/8 inches)/1.2 m (47 1/4 inches)
- **Output connector:** 3.5 mm (9/32 inches) dia.
- **Microphone head:** 11 mm (9/32 inches) dia.
- **Microphone finish:** Black
- **Supplied accessories:** Wind screen (1)

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**QC-0.7MP**

- **Input impedance:** More than 1 MΩ
- **Connectors:** 3.5 mm (9/32 inches) dia. phone plug for microphone (for transmitter)
- **Cable:** 3.5 mm (9/32 inches) dia. phone plug for microphone (for guitar)
- **Total mass:** Approx. 70 g (2.47 oz)

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