



# SONY®



## PRO AUDIO GUIDE



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## Wireless Microphone Systems

### Why Sony UHF Wireless?

- PLL synthesized system—no need to “re-crystal” for changed frequency requirements
- Over 700 frequencies available on 800 series with pre-determined channel sets that allow user selectable choice of clear frequencies
- Informative LCD screen on transmitters & receivers
- Low battery alarm (select models)
- Auto frequency search and setup on modular series will find the best frequencies to use automatically
- Preprogrammed groups of frequencies built into the memory of each receiver allows the user to add additional systems without trial and error frequency selection.
- Tone squelch circuitry activates receiver to open to signals only from a Sony transmitter on the same frequency. This minimizes “surprise audio” from taxis or other interfering RF during use of the system.
- Channel plan allows 54+ simultaneously operating transmitter/receiver pairs over two antennas. Up to 6-wireless systems in 1 rack space!
- Receivers types available for permanent install, camera mount, or portable/touring applications.
- User friendly operation allows the user to easily reconfigure, change frequencies and change the number of simultaneously operating systems.

### More channels to work around DTV stations

Wireless frequency selection requires careful assessment of available bandwidth. Recent reallocation of the frequency spectrum to allow for digital television has caused some concern among wireless

users. Sony's commitment to being prepared is demonstrated

#### UWP SERIES

•U62/64

•U66/68

#### 800 SERIES

•U62/64 •U66/68

•U42/44 •U30/32

in their latest product expansion. To combat the reallocation of TV, public safety and last-mile wireless data up to the full conversion in 2009, new channel groups including 30,31,32,33 and 42,43,44,45 are available in the 800 series.

### UNIQUE FEATURES



Six channel receiver with auto-tuning, built-in antenna divider in a single rack space.



Two-in-one independent diversity tuners for camera mounting! No longer tape two receivers together. Get a summed output to monitor 2 talent on the headphone out, that is selectable. There's discrete outputs to feed your camera inputs. Get 5 hours of continuous operation on 4 AA batteries.

Modular mic transmitters with screw-on mic elements allowing easy changes for various uses. Capsules include: dynamic & condenser super cardioid, dynamic omni and even a condenser shotgun.



Networked 4 channel receiver modular bay system enables remote control from a mix or other position via PC software.



Cable-free camera receiver slots right into HDCAM, XDCAM, Digital Betacam and MPEG IMX cameras.

Plug-on transmitters in the 800 and UWP series can connect to any favorite existing mic the user likes and may already have.



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## *Wireless Microphone Systems*

Two field *proven* wireless series to meet the demands and budgets of professionals at all levels

### **1** *800 Series*



- High caliber, broadcast-touring grade performance

#### **Consistent RF transmission power**

Transmitter power supply provides level power over the life of the battery for even radio signal.

#### **Remote battery alarm**

Plug-on, hand-held and body pack transmitters can be monitored on the transmitter and receiver for remaining battery life and specific indication one hour before it goes dead.

#### **Widest array of channels to select**

TV channels include 30,31,32,33 / 42,43,44,45 / 62, 62, 64, 65 / 66, 67, 68, 69 with the coordinated groups.

#### **Up to 54 simultaneous channels**

These are possible channels, with the location of use determining the exact number capability.

### **2** *UWP Series*



- Cost-effective reliability

8 turn-key transmitter-receiver packs

Up to 16 simultaneous channels

**NOTE: The 800 and UWP Series are not interoperable.**

Use each series transmitters with respective receivers.

## **COMMON BENEFITS**

#### **TONE CODE SQUELCH**

An ultra-high 32kHz audio pilot tone is transmitted with the audio signal. In the receiver, it only allows audio to pass when it detects this tone. This prevents the output of stray RF and suppresses popping noise when the transmitter is turned on.

#### **COMPANDER**

To increase the dynamic range and lower the noise and interference in transmission. Attack and release is engineered to respond smoothly & effectively to the application.

#### **PRE-PROGRAMMED FREQUENCY GROUPS**

Optimum combinations assure coordinated operation among channels, with virtually intermodulation-free groups.

#### **DIVERSITY RECEPTION**

Not just dual antennae that are switched like some other brands, Sony two full receiver circuits to undetectably pick the strongest signal. This greatly reduces drop-outs caused by multi-path reflections seen in non-diversity systems.

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## Wireless Microphone Systems

## CAMERA CONFIGURATIONS



### WRR-861B

- Single-channel version camera pack receiver
- Channel models U30/32, U4244, U62/64, U66/68 available
- Two way powering: Internal battery or external from Sony camcorders via supplied cable
- A red LED flashes approximately 1 hour before the transmitter's battery is exhausted
- Switchable RF squelch levels: ON (5 dB~, 10 dB~, 15 dB~) or OFF
- Stereo mini jack for headphone monitoring the output sound
- Monitor volume control provided



### WRR-862B

- Receives two independent RF signals simultaneously on two separate channels
- Channel models U30/32, U4244, U62/64, U66/68, AVU66 available
- Compact and lightweight: 14.1 oz (400 g) including batteries (not supplied)
- Two way powering: Internal battery or external from Sony camcorders via supplied cable
- A red LED flashes approximately 1 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~, 10 dB~, 15 dB~) or OFF
- Stereo mini jack for headphone monitoring (switchable: Tuner 1/Tuner 2/Mixed)
- Monitor volume control provided



### A-8278-057-A

Mounting Bracket  
for 861 or 862 receivers  
to Sony professional camcorders which  
operate on Sony Lithium-Ion battery packs

**SEE PAGES 10-12  
FOR  
TRANSMITTERS**



### WRR-855B

- Single channel diversity receiver for camcorder use
- Slots into Sony HDCAM/Digital Betacam/XDCAM/MPEG IMX
- No need for audio/power cables or a mounting adaptor
- Channels U30/32, U42/44, U62/64, U66/68 models
- Compact and lightweight design: 11 oz (280 g)
- A D-sub 15-pin connector for audio power supply from camera



### CA-WR855

Enables a WRR-855A/855B to mount on specific camcorders without tuner slots (V-wedge style-DSR-450WS/450WSP/400/400P DVCAM and PDW-F350/F330 XDCAM) with direct audio/power connection interfacing.

### BTA-801

Adapter for the WRR-855 for other cameras. Receives camera power via a supplied 4-pin DC cable, and provides audio output via a balanced XLR output connector. When used in conjunction with Sony Lithium-Ion battery packs, mounts onto a bracket (Sony part number A-8278-057-A).

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## Wireless Microphone Systems

## CAMERA CONFIGURATIONS



- Space diversity reception system for stable RF reception
- Angle-adjustable antennas to help eliminate signal dropouts and provide mounting-position flexibility
- RF squelch function virtually eliminates ambient noise and unwanted signals from other wireless microphone systems
- A channel search function automatically seeks and selects the same RF signal frequency as set on the UWP transmitter
- An LCD screen provides extensive information, including the operating channel number and its frequency in MHz, audio output status, RF-input level, tuner-battery status, and accumulated operating time
- A dual color red/green LED indicator illuminates when RF-input signals are appropriately received
- Approximately six hours of continuous operation with two AA-size alkaline batteries (not supplied)
- Stereo mini jack with monitor-volume control
- Supplied shoe-mount adaptor enables easy mounting on Sony camcorders. A microphone stand adaptor (not included), belt clip and two output cables (3-pole mini-plug/XLR-type, 3-pole miniplug stereo mini-plug) are also provided.



### UWP-C1 Package

UTX-B1 body pack transmitter, omni-directional lavalier mic and URX-P1 camera receiver



### UWP-C2 Package

UTX-H1 Hand-held mic transmitter and URX-P1 camera receiver.



### UWP-C3 Package

























UTX-P1 Plug-on transmitter with URX-P1 camera receiver

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# *Wireless Microphone Systems*

## CAMERA CONFIGURATIONS

CAMCORDER TYPE	BUILT-IN SLOT	DC OUT	MIC IN TYPE	AUDIO IN	APPLICABLE WIRELESS	
<b>HDCAM</b>						
HDW-F900R/750/750P	Yes	Yes	XLR-5p	XLR 3pX2	WRR-8555B (1ch)	WRR-862B (2ch)
HDW-730S	Yes	Yes	XLR-3p	XLR-3pX2		A-8278-057-A Mount
					 Add transmitter see pages 10-12	 Add transmitters
					 Add transmitter see pages 10-12	 Add transmitters
<b>Digital Betacam</b>						
DVW-970/970P	Yes	Yes	XLR-3p	XLR-3pX2	WRR-855B (1ch)	WRR-862B (2ch)
					 Add transmitter see pages 10-12	 Add transmitters
					 Add transmitter see pages 10-12	 Add transmitters
<b>XDCAM</b>						
PDW-530/530P/510/510P	Yes	Yes	XLR-3p	XLR-3pX2	WRR-855B (1ch)	WRR-862B (2ch)
					 Add transmitter see pages 10-12	 Add transmitters
					 Add transmitter see pages 10-12	 Add transmitters
<b>MPEG IMX</b>						
MSW-970/970P	Yes	Yes	XLR-3p	XLR-3pX2	WRR-855B (1ch)	WRR-862B (2ch)
					 Add transmitter see pages 10-12	 Add transmitters
					 Add transmitter see pages 10-12	 Add transmitters

CAMCORDER TYPE	BUILT-IN	DC	MIC IN	AUDIO IN	APPLICABLE WIRELESS
HDCAM HD					
PDW-F350/F330	No	Yes	XLR-5p	XLR 3pX2	WRR-861B (1ch) WRR-862B (2ch)



WRR-861B (1ch)

A-8278-057-A Mount



WRR-862B (2ch)

A-8278-057-A Mount



WRR-855A/855B (1ch)

CA-WRR855 Mount



Add transmitter

Add transmitters

see pages 10-12



## HDTV &amp; DVCAM

HVR-Z1 Series	No	X	None	XLR X2
HVR-V1 Series	No	X	None	XLR X2
HVR-A1 Series	No	X	Stereo	XLR X2
			Mini	

DSR-400/400P

No

DSR-450WS/450WSP

No

DSR-250/250P

No

DSR-PD170/PD170P

No

X

Stereo  
Mini

XLR X2

WRR-861B (1ch)

A-8278-057-A Mount



WRR-862B (2ch)

A-8278-057-A Mount



WRR-855B (1ch)

CA-WRR855 Mount



Add trans

Add transmitters  
see pages 10-12


UWP-C1 Pack

UWP-C2



UWP-C3 Pack



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## Wireless Microphone Systems

## MULTI-CHANNEL CONFIGURATIONS



800

### MB-8N

Tuner base unit accommodates up to 4 WRU-8N receiver modules (not channel specific)

- Ideal for multi channel operation
- Remote operation over Ethernet
- Supplied PC control software controls up to 49 wireless tuners with antennae cascade function
- Storage and recall of configurations for easy set-up
- Front panel LCD display allows access to all settings
- Supports up to four WRU-8N wireless mic receiver modules
- Built-in antenna divider accommodates up to 16 channels
- Up to 42-channel simultaneous operation is possible using an optional WD-880A antenna divider



Note: Only works with MB-8N frame; not the MB-X6.

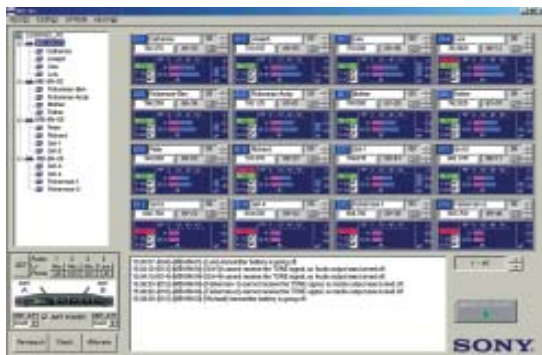
### WRU-8N

Diversity receiver module

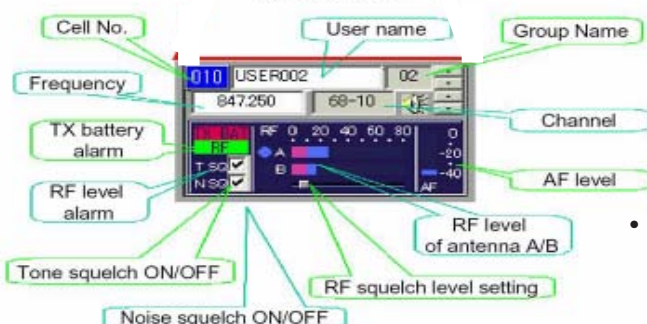
Audio Channels:	1
Available Channels:	62/64, 66/68 30/32*, 42/44*

\*-for MB-8N/9F avail. in March 07

- Up to 4 x WRU-8N tuners can be installed into the MB-8N tuner base unit
- Includes channel search and group search functions
- Supports MB-8N tuner base PC control capability
- Remote operation and monitoring over Standard Ethernet
- Wide dynamic range (116dB typical)
- Low noise and distortion



### Monitor Cell



### PC Control Software

Supplied free with the MB-8N



- Uses standard Ethernet connections
- Set up and control from a PC running the supplied GUI software
- Store and recall of different channel configurations
- Monitor individual channels
- Status indicators on all important functions

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## Wireless Microphone Systems

## MULTI-CHANNEL CONFIGURATIONS


**MB-X6**

Modular receiver chasis

**800** **UWP**

- Accommodates up to six WRU-/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 dB/0 dB).
- Accommodates up to six WRU-806A/806B or UWP series URX-M1 modules for up to six channels of simultaneous operation.


**UWP**

**URX-M1**

Diversity receiver module

Audio Channels:	1
Available Channels:	62/64, 66/68

**800**

**WRU-806B**

Diversity receiver module

Audio Channels:	1
Available Channels:	30/32*, 42/44* 62/64, 66/68

\*The existing MB-806A receiver chasis does not support these channels. It is limited to CH62-69.



**SRP-X700p and SRP-X500p Switcher/Mixer/Amplifiers**  
Accept 2 of the Sony receiver modules.



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Price and product updates found at  
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## Wireless Microphone Systems

## MULTI-CHANNEL EXAMPLES

3 to 6 - **WRT-8B or WRT-822 Body packs with ECM-XX-BC style lavalier mics** for chans.30/32, 42/44, 62/64, 66/68

**or UTX-B1 (includes mic) Body pack** for channels 62/64, 66/68 (use with URX-M1 module)

**or WRT-807 or WRT-867 or WRT847B66/68** with CU mic capsule hand-held mics

**or WRT-8P (use WRU-806 module) or UTX-P1 Plug-on** (use URX-M1 module)

1 - **MB-8X** module bay

3 to 6 - **WRU-806B66/68** diversity receiver module for chans.30/32, 42/44, 62/64, 66/68

**or URX-M1** for UWP transmitter channels 62/64, 66/68

2 - **AN820A** active antennas (optional, recommended)

2 - **WBC-10B5P** antenna cables (optional, recommended)

**3-6 mics**

7 to 12 - **WRT-8B or WRT-822 Body packs with ECM-XX-BC style lavalier mics** for chans.30/32, 42/44, 62/64, 66/68

**or UTX-B1 (includes mic) Body pack** for channels 62/64, 66/68- match with

**or WRT-807 or WRT-867 or WRT847B66/68** with CU mic capsule hand-held mics

**or WRT-8P or UTX-P1 Plug-on**

2 - **MB-8X** module bay

7 to 12 - **WRU-806B66/68** diversity receiver module for chans.30/32, 42/44

**or URX-M1** for UWP transmitter channels 62/64, 66/68

4 - **AN820A** active antennas (optional, recommended)

4 - **WBC-10B5P** antenna cables (optional, recommended)

**7-12 mics**

13 to 18- **WRT-8B or WRT-822 Body packs with ECM-XX-BC style lavalier mics** for chans.30/32, 42/44, 62/64, 66/68

**or WRT-807 or WRT-867 or WRT847B66/68** with CU mic capsule hand-held mics

**or WRT-8P or UTX-P1 Plug-on**

(UWP series does not operate beyond 16 live mics)

3 - **MB-8X** module bay

13 to 18- **WRU-806B66/68** diversity receiver module for chans.30/32, 42/44

**and** 62/64, 66/68

2 - **AN820A** active antennas (optional, recommended)

2 - **WBC-10B5P** antenna cables (optional, recommended)

6 - **WBC03BP** divider cables

1 - **WD820A** Antenna divider

**13-18 mics**

19 to 24- **WRT-8B or WRT-822 Body packs with ECM-XX-BC style lavalier mics** for chans.30/32, 42/44, 62/64, 66/68

**or WRT-807 or WRT-867 or WRT847B66/68** with CU mic capsule hand-held mics

**or WRT-8P or UTX-P1 Plug-on**

(UWP series does not operate beyond 16 live mics)

4 - **MB-8X** module bay

19 to 24- **WRU-806B66/68** diversity receiver module for chans.30/32, 42/44

**and** 62/64, 66/68

2 - **AN820A** active antennas (optional, recommended)

2 - **WBC-10B5P** antenna cables (optional, recommended)

6 - **WBC03BP** divider cables

1 - **WD820A** Antenna divider

**19-24 mics**

**NOTE: The 800 and UWP Series are not interoperable.  
Use each series transmitters with that series' receivers.**

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## Wireless Microphone Systems

## BODY PACK TRANSMITTERS



800

### WRT-8B

Ultra-compact body pack for  
lavalier mic or instrument

Frequency Response:	40-20kHz
Available Channels:	30/32, 42/44 62/64, 66/68

Models:

**WRT-8B 30/32**  
**WRT-8B 42/44**  
**WRT-8B 62/64**  
**WRT-8B 66/68**

- 40-20kHz typical frequency response
- Light weight 5 ounces
- Removable antenna
- Switchable 10 to 50mW output power for bat. life or range
- Accepts lavalier microphones with an SMC9-4P connector, like the Sony ECM-77BC, ECM-44BC, ECM-166BC
- Switchable input level (Mic/Line)
- Variable attenuator
- Selectable RF output level
- 13 hour operation using two AA-batteries at 10mW output power
- 6 hour operation using two AA-batteries at 50mW output power
- Low battery alarm indicator
- Rugged, die-cast magnesium construction



800

### WRT-822B

Bodypack transmitter  
for lavalier mic or instrument

Frequency Response:	70-15kHz
Available Channels:	30/32, 42/44 62/64, 66/68

Models:

**WRT-822B 30/32**  
**WRT-822B 42/44**  
**WRT-822B 62/64**  
**WRT-822B 66/68**

- 100-15kHz typical frequency response
- 20mW output power
- Accepts lavalier microphones with an SMC9-4P connector, like the Sony ECM-77BC, ECM-44BC, ECM-166BC
- Switchable input level (Mic/Line)
- Variable attenuator
- Fixed antenna
- 8 hour operation using two AA-batteries at 20mW output power
- Low battery alarm indicator

ECM-166BC: Uni Lav Mic  
ECM-55BC: Omni Lav  
ECM-77BC: Mini Omni Lav  
ECM322BC: Headset Mic

ECM-44BC: Omni Lav  
ECM-66BC: Uni Lav Mic  
ECM-77FC: Mini Omni Lav (skin tone)

## BODY PACK OPTIONS



K1161: Guitar cable



EC1.5CF: XLR cable (female) Plug in  
hand-held or output of mixer to body pack

UWP series has similar lav options with BMP connector designation

SEE PAGE 14 FOR MIC INFO



Mic stand adapter  
for UWP-B1



UWP

### UWP-S1 Package

UTX-B1 body Pack, Mic &  
URX-R1 rack receiver



UWP

### UWP-X1 Package

UTX-B1 body Mic & URX-M1  
plug-in receiver



UWP

### UWP-X5 Package

UTX-B1 body pack, head-mic &  
URX-M1 camera receiver

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## Wireless Microphone Systems

## HAND-HELD TRANSMITTERS



### WRT-847B

Handheld transmitter with interchangeable heads

Modular design 5 available mic capsules below. PLL-synthesized tuning to 188 frequencies of agility within a 24 MHz range. Four channel groups available. Selectable sensitivity. Back-lit LCD display. 8 hours battery life. Locking on/off switch. 10mW/50mW switchable RF output. Rugged, all-metal construction.

800

Frequency Response:	50-15kHz
Available Channels:	30/32, 42,44 62/64, 66/68

Models:

**WRT-847B 30/32**  
**WRT-847B 42/44**  
**WRT-847B 62/64**  
**WRT-847B 66/68**

### WRT-847B capsule options:



**CU-F780** Dynamic Super-Cardioid (For female voice)



**CU-E700** Condenser Super-cardioid (Performance vocals)



**CU-G780** Dynamic Super-Cardioid (uses F-780/9X mic)



**CU-F117** Dynamic Omni-Directional (Interviews)



**CU-E672** Condenser Hyper-Cardioid Shot-Gun (Broadcast applications)

800



### WRT-807B

Handheld dynamic microphone transmitter

Frequency Response:	50-15kHz
Available Channels:	30/32, 42/44 62/64, 66/68

800



### WRT-867A

Handheld transmitter for "concert" sound

Frequency Response:	50-15kHz
Available Channels:	30/32, 42/44 62/64, 66/68



WNP

### WNP-C2 Package

UTX-H1 hand-held mic and camera receiver



WNP

### WNP-X2 Package

UTX- H1 hand-held mic and URX-M1 plug-in receiver



WNP



### WNP-S2 Package

UTX-H1 hand-held mic and URX-R1 half-rack receiver

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## Wireless Microphone Systems

## PLUG-ON TRANSMITTERS

800



**WRT-8P**  
Plug-on microphone  
transmitter

Equipped with selectable 50mW to 250mW RF output power, the WRT-8P is well-suited to any ENG field application. The long-distance high-power range provides stability for large-scale sporting event coverage and the low power setting excels in multi-channel environments, reducing susceptibility RF interference. It supplies +48V external power capability, has a MIC / LINE input selector, an easy to read LCD display with amber backlighting, up to 4 hours of abttry life with a battery alarm function transmitted to the receiver and model versions provide 4 channel groups. Provides phantom power and will work with condenser mics as well as dynamic.

Frequency Response:	70-15kHz
Available channels:	30/32, 42,44 62/64, 66/68

Models:

**WRT-8P 30/32**  
**WRT-8P 42/44**  
**WRT-8P 62/64**  
**WRT-8P 66/68**

UWP



**UTX-P1**  
Plug-on microphone  
transmitter

The UTX-P1 plug-on transmitter is designed to be used with Sony UWP series wireless receiver. Converts a wired microphone to a wireless microphone via an XLR connection. 50mW RF power output for stable and long-distance transmission. MIC/LINE input level switchable. Approximately six hours of continuous operation with two AA-size batteries. A backlit LCD provides extensive information, including the operating channel number and frequency in MHz, attenuator level, audio-input status, RF-output status, transmitter-battery status and accumulated operating time.

Frequency Response:	50-15kHz
Available channels:	62/64, 66/68

Models:

**UTX-P1 62/64**  
**UTX-P1 66/68**

## RECEIVER ACCESSORIES

**WD-850**

Antenna Divider



Connection of up to 4 diversity distribution outputs, using a pair of AN-820A antennas. Two pair of antenna input for 4 x AN-820A antennas, expanding the operating area. With cascade output. Not channel specific, Handling 566 MHz to 806 MHz range. Switchable power supply (DC 9 V or 12 V).

**WD-880A**

Antenna Divider



Connection of up to 6 diversity distribution outputs when using a pair of AN-820A antennas. Handles 70 MHz to 806 MHz. Band pass SAW filters divide the spectrum of TV channels into multiple frequency bands to outputs. Switchable power supply (DC 9 V or 12 V)


**AN-820A**

Active antenna

(not channel specific)



Built-in RF amplifier (10 dB gain). Installation on wall or place on mic stand with supplied adaptor. Use in pairs for diversity reception. LED for installation check. External power supply from the MB-8N/X6, WD-850/880A or SRP-X500 or 700 via a coaxial cable (sold separately).

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## Wired Microphones

## SHOTGUN MICROPHONES



### ECM-672

12" long. AA battery or phantom power operation. Frequency response 50-16kHz. XLR type connector. -42 sensitivity. 16dB self noise.



### ECM-673

Short shotgun, electret condenser-type microphone with 2 way powering (battery or phantom). 7 7/8" long. 4.7 ounces. Frequency response 40-20kHz. XLR type connector. -36 sensitivity. 17dB self noise. low-cut filter switch to reduce wind noise or other rumble.

### ECM-674

Medium-sized shotgun, electret condenser-type microphone with 2 way powering (battery or phantom). 10 5/8" long. 7 ounces. Frequency response 60-18kHz.

XLR type connector. -36 sensitivity. 19dB self noise. low-cut filter switch to reduce wind noise or other rumble. Liquid leakage protection from battery by shutting off when voltage drops.



### ECM-678

9.9" long. Frequency response 40-20kHz. XLR type connector. -28 sensitivity. less than 6dB self noise. Phantom power only.



### WIRELESS SHOTGUN WRT-847B & CU-E672

SEE PAGE 11

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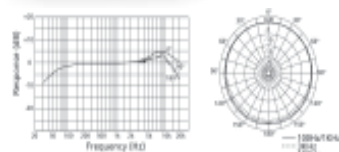
## Wired Microphones

## LAVALIERE MICROPHONES



### ECM-44B

Miniature electret condenser lavalier microphone. Black anodized finish; Omni-directional; AA battery operation only. Frequency response 40-15kHz. XLR type connector. -53dB sensitivity.



### ECM-44BC

ECM-44B type microphone head with 1.2m cable and SMC9-4P connector for connection to Sony wireless belt pack transmitters.

### ECM-44BMP

Omni-directional electret condenser lavalier microphone with locking 1/8" Mini Phone Plug.

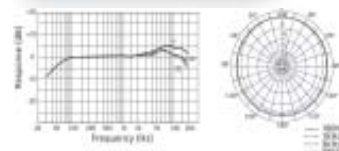
### ECM-44BPT

ECM-44B microphone without the power unit, or connector.



### ECM-55

Omni-directional electret condenser lavalier with black anodized finish and a frequency response with enhanced presence. Battery or phantom power. Frequency response 30-18kHz. XLR type connector. -52dB Sensitivity.



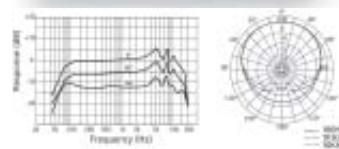
### ECM-66B

Uni-directional electret condenser lavalier microphone features mic head that weighs only .25 ounces, a black finish, and battery or phantom power. 70-14KHz frequency response. XLR connector. -50 dB sensitivity. 300 hour battery life. -29 dB noise.



### ECM-66BC

ECM-66B type microphone head with 1.2m cable and SMC9-4P connector for connection to Sony wireless belt pack transmitters.



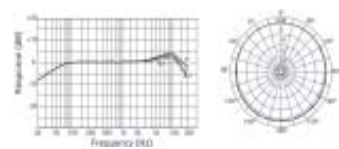
### ECM-77B

Perfect for television applications, omni-directional electret condenser in a miniature design to be inconspicuous. This tiny mic runs on either phantom power or AA battery operation. Frequency response 40-20,000Hz. XLR connector. -52dB sensitivity. SN +62dB



### ECM-77BC

ECM-77B type microphone head with 1.2m cable and SMC9-4P connector for connection to Sony wireless belt pack transmitters.



### ECM-77BMP

High-Quality, omni-directional micro-lavalier condenser microphone with BMP style 1/8" locking mini plug, for use with UWP series.

### ECM-77BPT

ECM-77B microphone without the power unit, or connector.

### ECM-77FPT

ECM-77F Beige colored microphone without power supply or connector.

**SONY®**

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## Wired Microphones

## LAVALIERE MICROPHONES



### ECM-88B

The ECM-88 is a miniature omni-directional electret-condenser microphone ideally suited for quality-critical applications in broadcasting, theater and field production. This lavalier mic achieves high-sensitivity and has a flat-and-wide frequency response 40-20kHz.



### ECM-88BC

with 4-pin (SMC9-4P) connector.



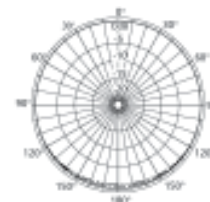
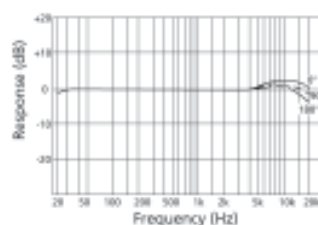
### ECM-88BPT

without connector (Pigtail)



### ECM-88FPT

Beige colored for applications that require hidden against skin.



### ECM-166

Basic uni-directional lavalier condenser microphone with BMP style 1/8" locking mini plug, for use with UWP series. Frequency response 100-10,000Hz SMC9-4P typeconnector.



### Supplied accessories for Lav mics

Vertical, horizontal and dual clips, foam windscreen and carrying case. ECM-44 & 166 have one clip, screen and case.

## ACCESSORIES

### ADKIT-77 / ADKIT-88 / ADKIT

Accessory kit includes one horizontal (black) single holder clip, one vertical (black) single holder clip, one horizontal (black) double holder clip, one safety pin clip, one (black) metal wind screen, and six colored urethane windscreens for the ECM 77 or ECM 88.



### ADR-44B

Urethane wind screens for ECM-44. Black 12 pieces in each package.

### ADR-55B

Metal wind screens for ECM-55. Black, 6 pieces in each package.

### ADR-66B

Urethane wind screens for ECM-66. Black 12 pieces in each package..

### ADR-77B

Metal wind screen pack for ECM-77. Black, 6 pieces in each package.

### ADC-77B

Urethane colored wind screens or ECM-77 6 colors, 12 pieces each pack

### ADR-88B

Black urethane windscreen for ECM-77. Package of 12.

### ADC-88

Color wind screen pack for ECM-88 Lavalier Mic. Urethane, package includes a total of 12 (with 6 colors, includes two of each color)



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## Wired Microphones

## LAVALIERE

### ACCESSORIES



#### SADH- 44B, SADH-55B, SADH-77B, SADH-88B

Black horizontal single clip for ECM 44, 55, 77 and 88 (10 piece pack)

#### SADP- 88

Black pin type clip pack for ECM-88 (6 piece pack)

#### SADS-77, SADS-88

Safety pin clip pack for ECM 77 and 88. (6 piece pack)

#### SADS-77, SADS-88B

Safety pin clip pack for ECM 77 and 88. (6 piece pack)

#### SADV- 77B, SADV-88B, SADH-77B, SADH-88B

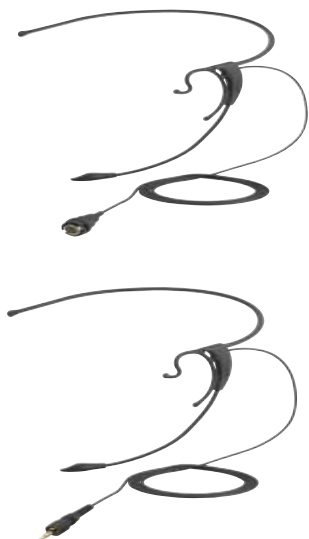
Black vertical single clip for ECM 47 and 88(10 piece pack)

#### SADW- 77B, SADW-88

Double lack horizontal single clip for ECM 77 and 88 (10 piece pack)

## Wired Microphones

## HEAD-SET MICROPHONE



#### ECM-322

Designed for highly sensitive and clear sound pickup in live sound, house of worship, corporate, and educational applications. Lightweight, extremely comfortable, and inconspicuous, these systems were created to provide A/V presenters, lecturers, ministers, and educators with hands-free capability.

**ECM-322BC** headset mic system features a four-pin connector for Sony's WL-800 Wireless Series

#### ECM-322BMP

1/8" connector for UWP Series Wireless UWP X5 Headset/Wireless Package includes ECM-322BMP headset, UWP body pack transmitter, and URX-M1 tuner module

## Wired Microphone Systems

## MINI STEREO MICROPHONES



#### ECM 719

#### Miniature Stereo Microphone

Super small ideal fo Sony MD Walkman &amp; DAT. Stereo unidirectional (Cardioid) electret condenser. Oxygen-free copper cable for excellent conductivity. L-Shaped Gold-Plated Stereo Mini Plug. 2-Way Power supply from LR44 type battery, &amp; plug-In power. 100 Hz-15 kHz Frequency Response &amp; 80 dB Dynamic Range Weight: Approx. 2oz Dimensions: 1-1/2" x 1-5/8" x 1-1/4"

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*Wired Microphones*
**HAND-HELD MICROPHONES**

**F112**

Dynamic omni-directional handheld wired ENG microphone. High sensitivity of -54 dB


**F710**

Low cost dynamic handheld microphone for general purpose use. Neodymium magnet offers high output. On/off switch.


**F720**

Quality dynamic hand-held cardioid microphone. Rugged construction. Built-in LC switch. Replaceable capsule. Finished in black. Efficient one-piece shock mount to protect the capsule from external noise and vibration. Integral double windscreen to prevent popping & blasts.


**F740 9X**

Designed for critical live vocal and instrumental reproduction, this dynamic handheld microphone features an AlNiCo magnet and Copper Clad Aluminum Wiring for very crisp, clean, transparent sound.


**F780 9X**

A perfect choice for critical live vocals or where high-quality, rugged reliability, and resistance to feedback are required. Sony Pro Audio's F7809X Hyper-Cardioid Handheld, Dynamic Vocal Microphone is an enhanced version of its top-of-the-line model F-7

*Wired Microphones*
**TABLE MICROPHONE**

**ECM -530**

Tabletop condenser microphone. Ideal for conference or lecture application. Flexible gooseneck design, "AA" Battery and Phantom Power operation, matte black finish, noise-isolated base, inconspicuous wiring through the back of the base. Frequency response 70-18K Hz. Uni-directional. Sensitivity -48 dB

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## Wired Microphone Systems

## STUDIO MICROPHONES


**C-800G PAC**
**Ultra-Sonic**

Large diaphragm *tube* condenser microphone is designed for the highest possible sound reproduction quality. Warm sound quality through a 6AU6 vacuum tube, a unique Peltier-based cooling system to achieve optimum tube operating temperature, and an electronically selectable pick-up pattern (Omni/Uni) for various recording applications. The package includes a power supply (AC-MC800G) and all the necessary accessories. High sensitivity of -33dB/Pa. Frequency response: 20 Hz-18,000 Hz. Signal-to-noise ratio: 73 dB. Dynamic range: 113 dB. Max. sound pressure level 131 DB SPL. Self noise 18dB.


**C-38B**
**Vintage**

Large diaphragm FET condenser microphone. Selectable directivity, uni-directional or omni-directional 140 dB SPL, suitable for recording wind instruments 2-way powering, internal 9V battery (battery life approximately 250 hours) or 48V phantom power Vibration resistant construction Excellent shielding against external magnetic fields. Frequency response 30 to 18,000 Hz Signal to noise ratio (A weighted, 1 kHz, 1 Pa) 70+ dB, Self noise 26 dB, Sensitivity -48 dB Maximum input sound pressure level- 40 dB SPL, Attenuator -8 dB.

## Microphone Mixers

## PORTABLE & RACK


**DMX-PO1**

Digital, lightweight, portable field mixer for ENG and EFP. 32-bit, full digital sound processing and Scene Memory to recall ten parameter settings. Four XLR inputs as mic or line, phase reverse, 2 master outs, AES & SPDIF digital outs, tape out, 24 bit A/D, low cut filter, eq, comp/limiting, 5 hours of battery life, 4lbs. 13ounces. -126 dB noise. Green electronics.


**SRP-X100**

Single space rack-mount mixer for business meeting, boardroom, educational and house of worship needs. Includes 6 mono inputs (2 mic and 4 switchable mic/line) and 3 stereo input channels with flexible routing to stereo master, two mono subs and record outputs (not including chan.9). -83dB noise. Green electronics

**SONY®**

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*Headphones*
**PRO HEADPHONES**

**MDR-7502**

Small diaphragm headphones. Headphone features include 30mm driver unit, closed ear design. Frequency response: 60Hz to 16kHz, Sensitivity: 98 db/mW


**MDR-7505**

Small diaphragm foldable headphones. Headphone features include folding construction, 40mm driver unit, closed ear design. Frequency response: 10Hz to 25kHz, Sensitivity: 105 dB/mW

**Supplied Accessories:** Carrying case


**MDR-7506**

Large diaphragm foldable headphones. Headphone features include rugged design, folding construction, 40mm driver unit, closed ear design. Response: 5Hz to 30kHz, Sensitivity: 106 dB/mW

**Supplied Accessories:** Carrying case


**MDR-7509HD**

Auranomic (driver units have been designed in accordance with the angle of the ear) large diaphragm studio-reference full-cup (closed ear) headphones. Features rugged design, folding construction, 360kJ/m<sup>3</sup> high power neodymium magnets, 80kHz reproduction using 50mm HD driver units, high power handling capacity 3,000mW & Gold connectors. Closed ear design. Response: 10Hz to 20kHz.

**Supplied Accessories:** Carrying case

# SONY®

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## Headphones

## CONSUMER HEADPHONES



### MDR-V700DJ Disc Jockey Headphones

- Large diaphragm DJ headphones. • Neodymium Magnet • Impedance 24 ohms
- Sensitivity 107 dB/mW • Power Handling Capacity 3000 mW • Frequency Response 5 — 30,000 Hz • Wide, adjustable single headband with folding earcups • Earcups swivel and reversible for single-sided monitoring • auto-return mechanism • 50mm drivers
- Supplied: Carrying case



### MDR G42 LP Street Style® Headphones; Behind-the-neck headband

- Drive Unit: 30 mm • Diaphragm: PET • Impedance: 24 ohms • Frequency Response: 16 - 20,000 Hz • Headband: Behind-the-neck, Single • Cord: Oxygen-free copper; Single-sided, 5 feet (1.5 m) • Plug: L-Shaped, stereo mini plug • Audio sensitivity: 104 dB/mW • Magnet: Ferrite • Power Handling Capacity: 1000 mW



### MDR-RF960RK Wireless Headphones

- 150 foot range. 900 MHz Radio Frequency (RF) Transmission. • Rechargeable NiMH batteries.
- 30mm diameter, dome type • Automatic tuning • RF Carrier Frequencies: Ch.1: 913.5 MHz Ch. 2: 914.0 MHz Ch. 3: 914.5 MHz • Frequency Response: 20-20,000Hz • Sensitivity: 105 dB/mW
- Power AC 120Vm 60Hz when used with supplied AC power adapter which connects to the DC 9V jack. • UniMatch® plug adapter • Weight: Headphones: 9.5 oz w/battery Transmitter: 6.7 oz (195g) • Dimensions: Transmitter: 5.2" x 4.9" x 5.35" (133 x 124 x 136mm)



### MDR-NC6 Noise Cancelling Headphones

- Reduces outside noise by 70% (10db) • Slim Swivel Folding Style • Impedance: Power On: 20 ohms at 1kHz; Power Off: 65 ohms at 1kHz • Frequency Range: 10 dB at 300 Hz • Noise Reduction: 40 - 1,500 Hz • Single AA battery required. )



### MDREX71SL

**Super-Light In-The-Ear Design New,  
Super-Small 9 mm Drivers Soft,  
Silicon Earbuds**

Response: : 6 - 23,000 Hz

**Weight: 0.1 oz. (4g), without cord**

Supplied Accesories: Carrying case  
Second set of earpads

**SONY**

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*Digital Recorders*
**PORTABLE PCM & HD MD**

**PCM-D1**

The PCM-D1 portable audio recorder is ideal for capturing live musical and theatrical performances, or for journalists recording in the field. Features include 96 kHz-24 bit recording capability, 4 GB internal Flash Memory, removable Memory Stick Pro™ High-Speed storage (optional) and a built-in USB port compatible with Macintosh® and Windows® PC operating systems. The PCM-D1 is lightweight, free of all drive mechanisms, equipped with highly sensitive electret condenser microphones, and designed with circuits that process stereo sound with virtually no extraneous noise

- 96 kHz-24 bit, virtually noise-free, recording quality
- Built-in, X-Y configuration electret condenser microphones
- 4GB internal Flash Memory, free of drive mechanisms
- Slot for removable Memory Stick PRO (High Speed) storage
- Built-in USB 2.0 port, compatible with Macintosh® and Windows®/PC
- Four rechargeable nickel metal hydride AA batteries (charger included)
- Rugged titanium body with portable, lightweight design


**MZ-M200**

The next-generation of portable recording and playback is the MZ-M200 Hi-MD recorder. 1GB MiniDiscs, for up to 94 minutes of uncompressed recording time and up to 34 hours in ATRAC3 plus format.

USB 2.0 for Uploading recordings to a PC. Mac and Windows software (Sonicstage) converts Hi-MD recordings to WAV files. Linear PCM (44.1kHz 16-bit) uncompressed - 94 min. on a Hi-MD disc AC adapter/charger and Lithium Ion rechargeable battery Includes ECM-DS70P stereo microphone. Includes MDR-EO ear bud headphones a true overload indicator uncompressed PCM linear audio capability.

