

SONY



Pro-Audio General Catalogue

The history of the Sony microphone began in 1950 when, for the first time, Sony microphones and tape recorders were introduced to the world. Now, more than 60 years later, Sony is synonymous with the production and distribution of high quality professional audio products for news gathering, video production, live events and broadcast.

Sony innovations continued with the development of electret condenser microphones in the 1960s, appealing to audiophiles who needed condenser performance with the simplicity of a dynamic mic. This was followed by the introduction of the Sony Lavalier mic in the 1970s.

During the 1960s, the first wireless mic was also developed, offering systems for field and studio applications and offering the ideal combination of performance, reliability and versatility. From the 1970s, Sony developed the first Worldwide diversity system. And in the 1980s, we expanded into UHF systems, Diversity ENG camera receivers, wireless handheld mics and systems for music reproduction. More recently, Dual Diversity & rack mount tuners plus UHF diversity wireless systems were introduced to the market and, coming out of our work with digital audio on CD & DAT formats from the 1980s, the Oxford Console and the DMX-R100 followed in the 1990s.

Our fully Digital Wireless DWX system provides the best sound quality and stability of any digital wireless on the market, providing high end audio solutions in a range of applications from ENG to live music and fixed installations in studios and OBs, providing Sony audio solutions available for everyone.

With our UWP-D wireless microphone series Sony also provides a digital audio processing system for ENG use with portable receiver, providing the user with full channel access and up to 72MHz bandwidth, the perfect audio solution for shooting on the go.

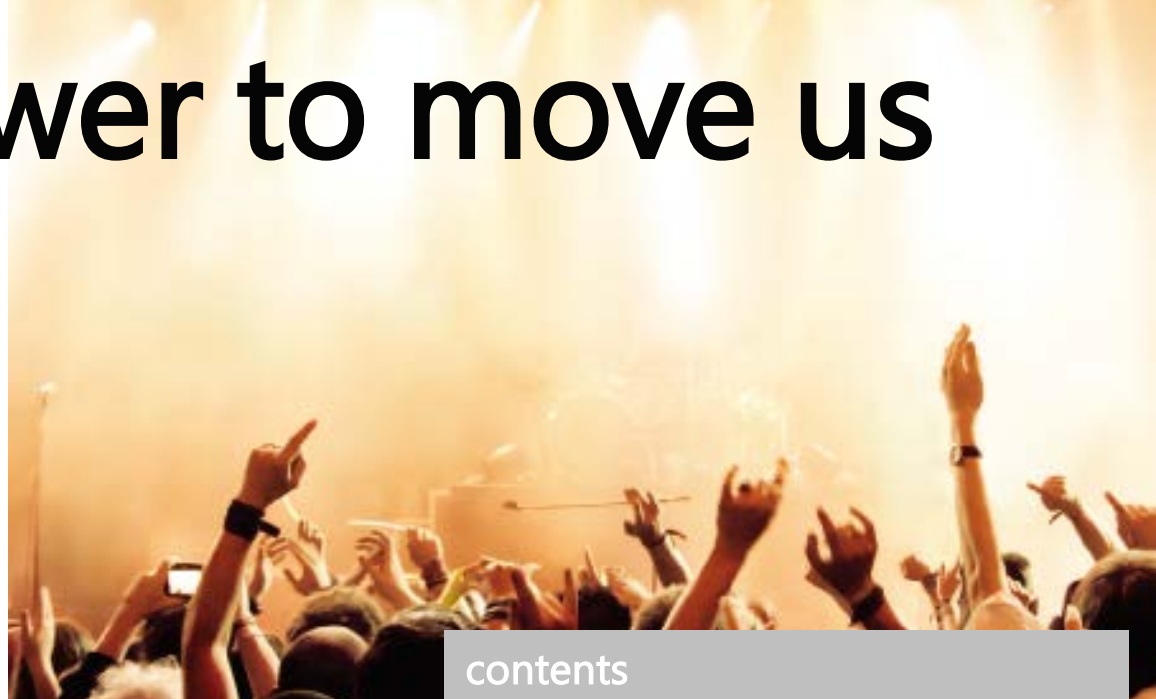


our pro audio heritage

the power to move us

Experience superb performance, long-lasting reliability and seamless system integration with Sony superior digital and analogue professional audio

With over 60 years' experience of continually redefining the creative and technical possibilities for live and recorded sound, our professional audio solutions range from leading-edge digital and analogue wireless systems to shotgun microphones, headphones and more. In fact, everything you need to create, share and enjoy perfect sound.



Wireless Microphone

contents

World-leading professional digital wireless microphone systems offering superb quality 24-bit AES/EBU digital audio for the highest quality applications.

DWX Series 4

Ground-breaking entry-level analogue wireless microphone packages with a range of robust, all-metal transmitters and portable and fixed receivers for professional and semi-professional applications.

UWP-D/UWP Series 16

Affordable high-quality 24-bit digital audio microphone packages with a range of robust, all-metal transmitters and portable and fixed receivers for a wide range of applications.

DWZ Series 30

Wired Microphone

Professional Electret condenser microphones delivering excellent sound and noise handling performance for location and studio applications.

ECM Series 41

Professional Dynamic microphones delivering excellent sound and noise handling performance for location and studio applications.

F Series 53

Mixer/Recorder/Headphone

Professional Mixer for location and Recorder and Headphone for general purpose applications

SRP/DMX/PCM/MDR Series 56

“ The Sony solution proved again that it's top notch ”
*Markus Lempesch,
Ryan Leslie European Stage Manager*

Superior digital sound quality and multi-channel operation

Created for use in live events and in broadcast TV studios, the DWX range seamlessly brings UHF wireless microphone technology into the digital domain. DWX is the no-compromise, ultimate quality choice, whatever your gig.

High-quality sound with Sony's original codec **WiDIF-HP**
High RF stability and minimized interference
RF remote control
supports improved workflow **Cross Remote**
Greater flexibility with multi-channel operation
Secure audio transmission

DWX
The digital wireless system for the digital moment

DWX

DIGITAL WIRELESS

Sony's New DWX™ Boosts Sound Quality and Operational Convenience

With its new, cutting-edge digital wireless microphone system, Sony combines advanced digital technologies, world-leading analog microphone expertise, wireless audio transmission technologies, and an enviable reputation for stability.

By incorporating the very latest digital technologies, the DWX is set to revolutionize live stage performances...in much the same way as the music recording industry changed when Sony applied advanced digital technologies to recorders, mixing consoles, and signal processing equipment.

The DWX ensures superb sound quality, convenient multi-channel operation, and innovative workflow without compromise.

Once again, Sony opens new doors to the digital world.



WiDIF-HP

Sony's Original Wireless Interface, WiDIF™-HP

A new high-profile format for the digital audio interface on UHF - WiDIF-HP – has been developed for the DWX.

Superb Quality Wireless Transmission

WiDIF-HP transmits high-quality 24-bit/48-kHz sampling digital audio signals in real time, with a wide dynamic range of more than 106 dB, a wide frequency response of 20 Hz to 22 kHz, and a low system latency of 3.4 ms*. Additionally, there is no compander, a device commonly used in conventional analog wireless systems which can degrade audio performance.

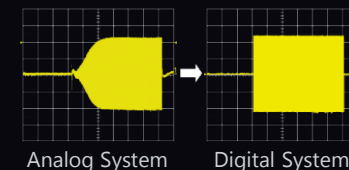
Greater Flexibility with Multi-channel Operation

WiDIF-HP enables large-scale multi-channel operation. Thanks to a digital modulator, WiDIF-HP realizes inter-modulation-free, equally spaced channel allocation, which enables a significant increase in the number of simultaneous digital wireless systems in comparison with current analog wireless systems. For example, up to 12 channels of simultaneous operation are supported using a 6-MHz bandwidth TV channel in the USA. WiDIF-HP supports approximately 50 percent more systems simultaneously than current analog wireless systems. This format allows the use of existing WL-800 Series analog wireless channel plans. In this configuration, the DWX reliably operates along with WL-800 Series analog wireless systems, with no risk of analog/digital wireless system interference.

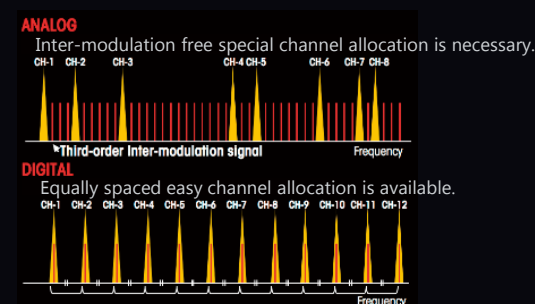
Frequency Response



Dynamic Response



More Simultaneous Multi-channel Operations



Stable and Secure Transmission

WiDIF-HP allows highly stable wireless transmission without audio degradation - transmission that is both secure and extremely tolerant to interference waves.

The format is digitally modulated and encrypted to minimize any risk of interception, providing highly secure transmission. For confidential communication, WiDIF-HP provides two communication modes:

Secure key mode: Wireless communication between a transmitter and receiver can be established by exchanging an encryption key that is generated by the transmitter.

Password mode: Multiple transmitters and receivers can be configured by setting all devices with the same user-designated password. In addition, password mode is for broadcast communication, enabling multiple receivers to receive audio signals from a single transmitter.

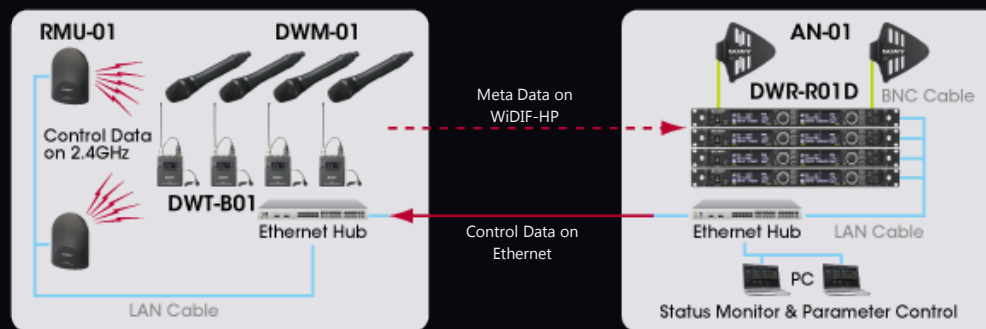
WiDIF-HP Specifications	
Sampling frequency	48 kHz
Quantization bit length	24 bit
Frequency response	20 Hz to 22 kHz
Dynamic range	106 dB typical (A-weighted)
Distortion (T.H.D)	0.03% or less
Occupied RF bandwidth	192 kHz or less
Modulation method	$\pi/4$ Shift QPSK
Audio delay	3.4 ms*

* When DWM-01 and DWR-R01 are used in combination.

∞ Cross Remote

Innovative Monitor/Control Function, Cross Remote™

WiDIF-HP transmits high-quality 24-bit/48-kHz sampling digital audio signals in real time, with a wide dynamic range of more than 106 dB, a wide frequency response of 20 Hz to 22 kHz, and a low system latency of 3.4 ms*. Additionally, there is no compander, a device commonly used in conventional analog wireless systems which can degrade audio performance.



Products

Sony is renowned for innovation in digital audio. Now, all of this expertise and legendary performance is available in a digital wireless microphone system using UHF frequency range.

DWM-02 Handheld digital wireless microphone



- Superb audio quality by using 24bit/48KHz high class AD - convertor
- Simultaneous multi-channel operation
- Three interchangeable heads and third party support
- Robust 31.3mm/pitch 0.1mm threading interchangeable mechanism for quick change (Shure mount, over 50 capsules from various manufacturers will work on the DWM-02)
- Remote control of transmitter functions from the receiver
- Selectable RF output power (1/10/50 mW)
- Digital low-cut filter
- Up to 72MHz bandwidth



CU-C31 Capsule Unit

- Condenser type
- Cardioid
- 60 Hz - 20 kHz



CU-F31 Capsule Unit

- Dynamic type
- Super cardioid
- 60 Hz - 18 kHz



CU-F32 Capsule Unit

- Dynamic type
- Wide cardioid
- 70 Hz - 18 kHz



DWA-CU01NM Microphone adapter

- Microphone adapter for 3rd party capsule



DWT-B01 Belt-pack digital wireless transmitter

- Superb audio quality by using 24bit/48KHz high class AD - convertor
- Unlimited simultaneous multi-channel operation*
- Lightweight and rugged design
- Switchable mic or line input level and adjustable attenuator
- 48V phantom power
- OLED display
- RF remote for all functions by Wireless Studio remote software
- Up to 72MHz bandwidth



ECM-77BC
Lavalier
Microphone



ECM-FT5BC
Flat Lavalier
Microphone



ECM-66BC
Lavalier
Microphone



ECM-55BC
Lavalier
Microphone



ECM-44BC
Lavalier
Microphone



DWT-P01 Plug-on digital wireless transmitter

- Superb audio quality by using 24bit/48KHz high class AD - convertor
- Unlimited simultaneous multi-channel operation*
- Lightweight and rugged design
- Switchable mic or line input level and adjustable attenuator
- 48V phantom power
- OLED display
- RF remote for all functions by Wireless Studio remote software
- Up to 72MHz bandwidth

*Bandwidth of the device is limiting the number of simultaneous channels.

Products



DWR-R02D 2 channel rack-mount digital wireless receiver

- Superb quality 24-bit/48kHz sampling digital audio
- Simultaneous multi-channel operation
- Unlimited number of simultaneous channels (500KHz spacing)
- Remote control of transmitter functions from the receiver
- Full control over cross-remote via Wireless Studio software
- 1U-size rack-mountable design
- Supports a variety of output functions such as XLR and BNC for AES3 digital, and GND lift function for analogue BAL output
- Supports a variety of output functions with two AES3/EBU outputs up to 24-bit/96 kHz plus World Sync input/output
- Flexible AC/DC power options
- Up to 72MHz bandwidth



DWR-S02D 2 channel slot-in portable digital wireless receiver

- Superb audio quality by AES3 out and 24Bit/48kHz D/A conversion
- Various viewfinder functions with Sony XDCAM camcorders
- Full digital workflow with Sony XDCAM camcorders
- Up to 72MHz bandwidth
- Active/Free channel scan



WD-850 Antenna divider

- Antenna signal output to up to four receivers
- Cascade output connectors allowing simultaneous use of up to two WD-850 channel dividers
- 2-channel antenna input connectors
- Power supplied to the Sony UHF antenna



DWA-01D Digital wireless adapter

- For use with DWR-S01D or DWR-S02D receiver
- Stand-alone wireless receiver operation
- Wide array of interfaces including two-channel AES3 digital or analogue output
- Unique lock-together mechanism to allow two DWA-01D adaptors to be easily combined
- Supports V-mount attachment
- Hirose 4-pin DC powering



DWA-F01D Digital wireless adapter

- For use with DWR-S01D or DWR-S02D receiver
- Stand-alone wireless receiver operation
- Top-panel operation for mixer bag
- Three-way powering (Hirose 4-pin DC powering, DC In and NP-Batteries)
- Three-parallel audio output, including XLR analogue output, BNC AES/EBU digital output and mini-phone analogue output

Accessories



AN-01
UHF Antenna

- Log-periodic antenna
- Uni-directional
- Built-in booster



AN-57
UHF ground plane antenna

- Ground plane antenna
- Horizontal omni-direction



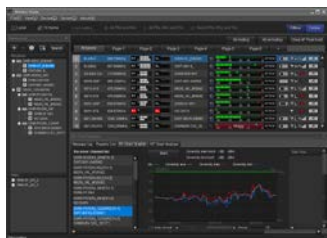
AN-820
UHF Antenna

- Dipole antenna
- Horizontal omni-direction
- Built-in booster



RMU-01
Remote Control Unit

- Extension of Cross Remote function
- Control of up to 82ch transmitter
- Two-way powering



Wireless Studio
PC Software

- Bundled application for PC
- Full control of all system parameters on receiver and transmitter
- Channel plan adviser
- RF Chart Grapher / RF Chart Analyser



LCS-F01D
Soft Carrying Case

- Soft case for DWA-F01D
- Shoulder strap is included
- Support V-mount attachment



GC-0.7CP
/S: Straight plug
/R: Right-angle plug



EC-1.5CF
Microphone cable



CBK-55BK
EFP-Style Buildup Kit for F55/F5

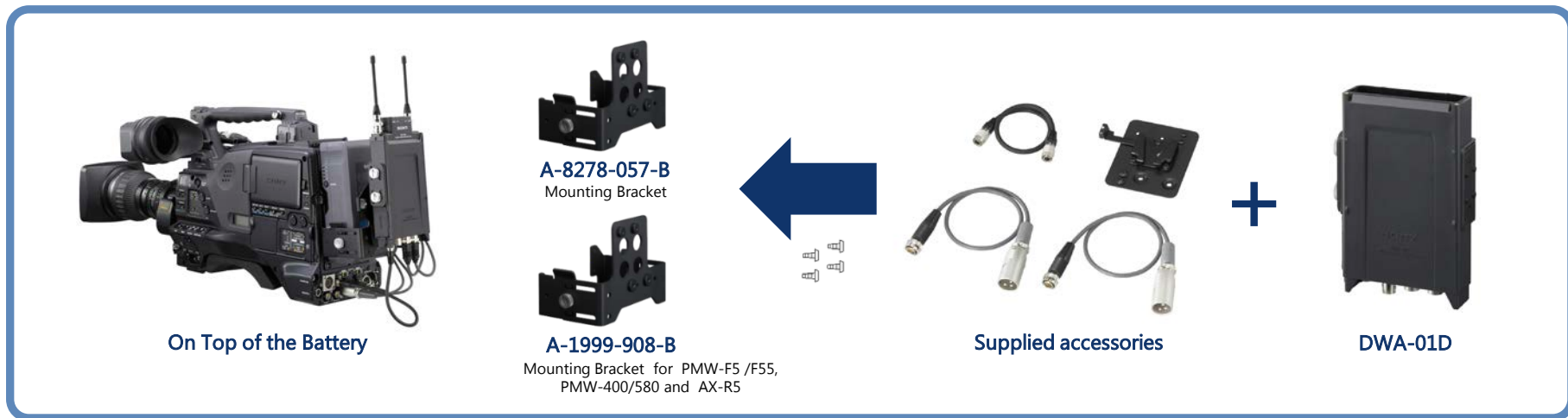
- Shoulder pad and additional interface for the PMW-F55/F5
- Supports Wireless slot-in audio receiver (WRR-855S/DWR-S02D)

CBK-55BK with
PMW-F55 & WRR-855S



For Shoulder Camcorders

The DWR-S02D can be inserted into wireless slot of Shoulder camcorders or mounted on top the Battery.



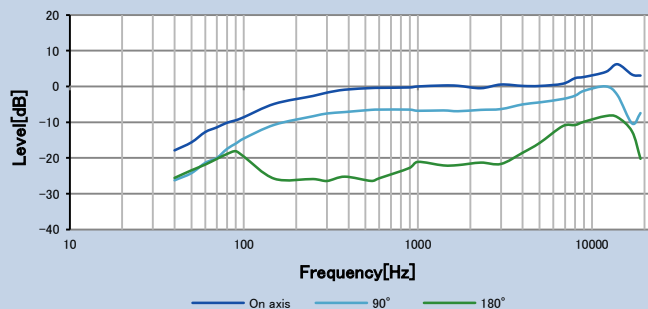
Frequencies

Operating Frequencies		470 MHz to 542 MHz	566 MHz to 630 MHz	566 MHz to 638 MHz	638 MHz to 694 MHz	638 MHz to 698 MHz	710 MHz to 782 MHz	806 MHz to 810MHz
UC	version	UC14		UC30 *1		UC42		
	Selectable Frequencies	564 (in 125kHz steps) 2772 (in 25kHz steps)		517 (in 125kHz steps) 2541 (in 25kHz steps)		470 (in 125kHz steps) 2310 (in 25kHz steps)		
CE	version		CE33		CE42		CE51	
	Selectable Frequencies		504 (in 125kHz steps) 2560 (in 25kHz steps)		441 (in 125kHz steps) 2240 (in 25kHz steps)		567 (in 125kHz steps) 2880 (in 25kHz steps)	
CN	version				CN29			
	Selectable Frequencies				441 (in 125kHz steps) 2240 (in 25kHz steps)			
J	version							JB
	Selectable Frequencies							30 (in 125kHz steps)

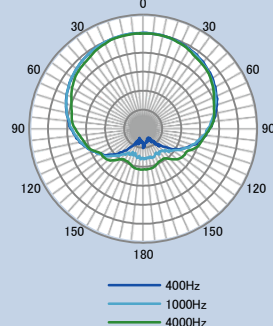
*1 566 MHz to 608 MHz and 614 MHz to 638 MHz

Specifications

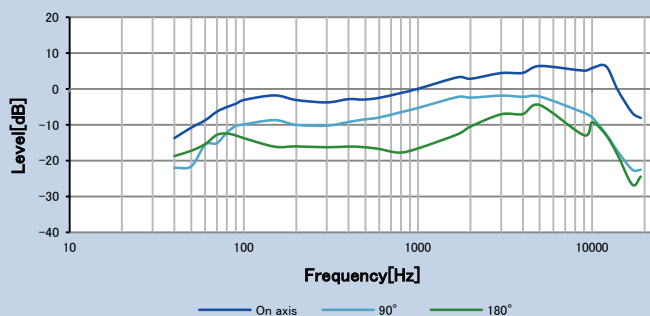
CU-C31



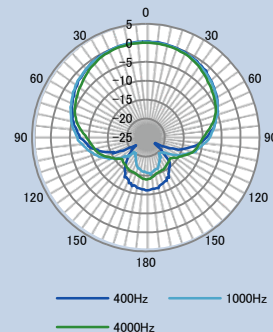
CU-C31 Polar pattern



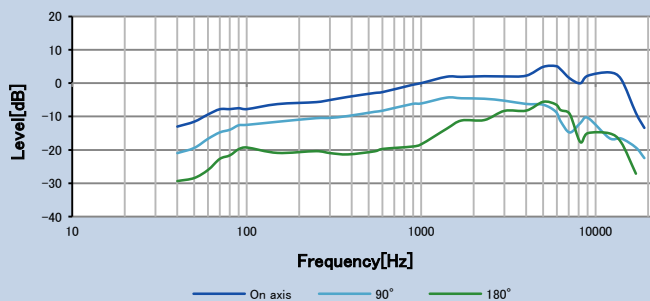
CU-F31



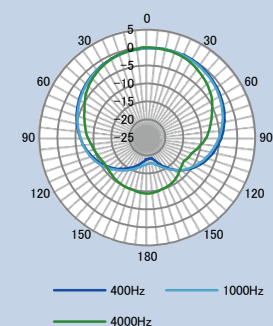
CU-F31 Polar pattern



CU-F32



CU-F32 Polar pattern



	CU-C31
Capsule type	Electret condenser
Directivity	Uni-directional (Cardioid)
Sensitivity	-48 dB (0 dB=1 V/Pa, 1 kHz)
Frequency response	60 Hz to 20 kHz
Operating temperature	0 °C to 50 °C (32 °F to 122 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Dimensions	Φ47.6 mm x 61.5 mm
Mass	Approx. 130 g

	CU-F31
Capsule type	Dynamic
Directivity	Uni-directional (Super cardioid)
Sensitivity	-54 dB (0 dB=1 V/Pa, 1 kHz)
Frequency response	60 Hz to 18 kHz
Operating temperature	0 °C to 50 °C (32 °F to 122 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Dimensions	Φ47.6 mm x 77.4 mm
Mass	Approx. 150 g

	CU-F32
Capsule type	Dynamic
Directivity	Uni-directional (Cardioid)
Sensitivity	-54 dB (0 dB=1 V/Pa, 1 kHz)
Frequency response	70 Hz to 18 kHz
Operating temperature	0 °C to 50 °C (32 °F to 122 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Dimensions	Φ47.6 mm x 77.4 mm
Mass	Approx. 150 g

Specifications

		DWT-B01 Bodypack transmitter	DWM-02 Handheld wireless microphone	DWT-P01 Plug-on transmitter
Wireless Interface		WiDIF-HP		
Oscillator Type		Crystal-controlled PLL Synthesizer		
Antenna Type		λ/4 flexible wire		
Type of Emission		G1E or G1D		
Carrier Frequencies	UC	U1424: 470.125 MHz to 541.875 MHz (TV-14 to TV-25 channels), 125 kHz steps		
		U3040: 566.125 MHz to 637.875 MHz (TV-30 to TV-41 channels, except TV-37channel), 125 kHz steps		
		U4250: 638.125 MHz to 697.875 MHz (TV-42 to TV-51 channels), 125 kHz steps		
	E7	CE3338: 566.025 MHz to 630.000 MHz (TV-33 to TV-40 channels), 25 kHz steps		
		CE4248: 638.025 MHz to 710.000 MHz (TV-42 to TV-50 channels), 25 kHz steps		
		CE5157: 710.025 MHz to 782.000 MHz (TV-42 to TV-50 channels), 25 kHz steps		
	CN	CN2935: 638.025 MHz to 694.000 MHz (TV-29 to TV-35 channels), 25 kHz steps	-	
	J	JB: 806.125 MHz to 809.750 MHz (B band), 125 kHz steps	-	
RF Power	UC	1 mW/10 mW/50 mW (e.r.p) selectable		
	CE7	1 mW/10 mW/50 mW (e.r.p) selectable		
	CN	1 mW/10 mW/50 mW (e.r.p) selectable	-	
	J	1 mW/10 mW (e.r.p) selectable	-	
Input Connector		Sony 4-pin (SMC9-4S) (female)	-	XLR-3-11C (female)
Phantom Power Voltage		-	-	+48 V
Reference Input Level		MIC: -60 dBV (-58 dBu), 1 kHz (at 0-dB attenuator level) LINE: +4 dBu, 1 kHz	-	MIC: -60 dBV (-58 dBu), 1 kHz (at 0-dB attenuator level) LINE: +4 dBu, 1 kHz
Maximum Input Level		MIC: -22 dBu (with 0 dB attenuator) LINE: +24 dB	-16 dBu (with 0 dB attenuator)	MIC: -22 dBu (with 0 dB attenuator) LINE: +24 dB
Audio Attenuator Adjustment Range		0 to 48 dB (3 dB steps, MIC input mode only)	0 dB to 21 dB (in 3-dB steps)	0 to 48 dB (3 dB steps, MIC input mode only)
Frequency Response		Transmission: 20Hz to 22kHz (typical)		
Dynamic Range		106 dB typical (A-weighted, T.H.D=1%)	-	106 dB typical (A-weighted, T.H.D=1%)
Distortion (T.H.D)		0.03% or less (0 dBu = 0.775 Vrms)	-	0.03% or less (0 dBu = 0.775 Vrms)
Audio Delay		Approx. 1.5 msec		
Wireless Remote Control		Cross Remote (2.4-GHz IEEE802.15.4 compliant)		
Display		OLED		
Power Requirements		DC 3.0 V (with two AA-size alkaline (LR6) batteries)		
Battery Operating Time		Approx. 5 hours with Sony's AA-size alkaline (LR6) batteries at 25°C(77°F) at 10-mW output (with the wireless remote control function off and DIMMER MODE set to AUTO OFF)		Approx. 5 hours with Sony's AA-size alkaline (LR6) batteries at 25°C(77°F) at 10-mW output (with the wireless remote control function off and DIMMER MODE set to AUTO OFF, and +48V set to OFF)
Operating Temperature		0°C to 50°C (32°F to 122°F)		
Storage/Transport Temperature		-20°C to +60°C (-4°F to +140°F)		
Dimensions		63 x 17 x 73 mm (excluding the antennas) (W x H x D)	Ø37.1 x 194 mm	44 x 78 x 44 mm (excluding protrusions) (W x H x D)
Mass		Approx. 125 g (including batteries)	Approx. 235 g (including batteries)	Approx. 245 g (including batteries)
Supplied Accessories		Spare battery case (1), Soft case (1), Microphone cable (4-pin to XLR type 3-pin) (1), USB adapter cable (1), USB cable (1), Carrying case (1), Scribble sheet (1), CD-ROM (1)	Identification ring (1 set), Microphone holder (1), USB adapter cable (1), USB cable (1), Carrying case (1), Stand adaptor (1), For the model available in the U.S.A.: PF1/2 to W5/8 type, For the model available in Europe.: PF1/2 to W3/8 type, CD-ROM (1)	Spare battery case (1), Soft case (1), USB adapter cable (1), USB cable (1), CD-ROM (1)

*0dBμV= 1μV EMF, 0dBu=0.775Vrms, 0dBV=1V, 0dB SPL=2x10⁻⁵ Pa

Specifications

	DWR-R02D Rack-mount receiver	DWR-S02D Slot-in receiver	
Wireless Interface	WiDIF-HP	WiDIF-HP	
Oscillator Type	Crystal-controlled PLL Synthesizer	Crystal-controlled PLL Synthesizer	
Reception Type	True diversity	True diversity	
Circuit system	Double Superheterodyne	Double Superheterodyne	
Antenna Type	Detachable	Detachable	
Antenna Input Connector	BNC-R, 50 Ω (x2)	BNC-R, 50 Ω (x2)	
Antenna Cascaded Output	BNC-R, 50 Ω (x2)	-	
Carrier Frequencies	UC	U1424: 470.125 MHz to 541.875 MHz (TV-14 to TV-25 channels), 125 kHz steps	U1424: 470.125 MHz to 541.875 MHz (TV-14 to TV-25 channels), 125 kHz steps
		U3040: 566.125 MHz to 637.875 MHz (TV-30 to TV-41 channels, except TV-37channel), 125 kHz steps	U3040: 566.125 MHz to 637.875 MHz (TV-30 to TV-41 channels, except TV-37channel), 125 kHz steps
		U4250: 638.125 MHz to 697.875 MHz (TV-42 to TV-51 channels), 125 kHz steps	U4250: 638.125 MHz to 697.875 MHz (TV-42 to TV-51 channels), 125 kHz steps
	CE7	CE3338: 566.025 MHz to 630.000 MHz (TV-33 to TV-40 channels), 25 kHz steps	CE3338: 566.025 MHz to 630.000 MHz (TV-33 to TV-40 channels), 25 kHz steps
		CE4248: 638.025 MHz to 710.000 MHz (TV-42 to TV-50 channels), 25 kHz steps	CE4248: 638.025 MHz to 710.000 MHz (TV-42 to TV-50 channels), 25 kHz steps
		CE5157: 710.025 MHz to 782.000 MHz (TV-42 to TV-50 channels), 25 kHz steps	CE5157: 710.025 MHz to 782.000 MHz (TV-42 to TV-50 channels), 25 kHz steps
	J	770.250 MHz to 809.750 MHz (FPU-1 to FPU-4, B band), 125 kHz steps	770.250 MHz to 809.750 MHz (FPU-1 to FPU-4, B band), 125 kHz steps
Frequency Response	20Hz to 22kHz (typical)	20Hz to 22kHz (typical)	
Dynamic Range	106 dB or more typical (A-weighted, T.H.D=1%)	106 dB or more typical (A-weighted, T.H.D=1%)	
Distortion (T.H.D)	0.03% or less (0 dBu = 0.775 Vrms)	0.03% or less (0 dBu = 0.775 Vrms)	
Audio Delay	Approx. 1.9 ms (analog output)	Approx. 2.1 msec (Analog output in combination with the DWA-01D/F01D)	
	Approx. 1.9 ms (digital output)	Approx. 1.9 msec (AES/EBU output in combination with the DWA-01D/F01D and through a digital connection with a camcorder)	
Analog Output	BAL: XLR-3-32 (male), 47 Ω or less (x2) UNBAL: Ø6.3 mm (1/4 inch) mono jack, 220 Ω or less (x2) Output level (0 dBu = 0.775 Vrms) BAL: -22 dBu maximum/-58 dBu reference (when MIC output) BAL: +24 dBu maximum/-12 dBu reference (when LINE output) UNBAL: +8 dBu maximum/-28 dBu reference (when UNBAL ATT =0 dB)	D-sub 15 pin (male) (x1) Analog: Reference output level: -40 dBu Digital: Reference output level: -36 dBFS/-20 dBFS (switchable)	
	Digital Output	XLR-3-32 (male), 110 Ω (x1) BNC-R, 75 Ω (x1) Reference output level (0 dBu = 0.775 Vrms) -36 dBFS	
Headphone Output	Ø6.3 mm (1/4 inch) stereo jack	-	
WORD SYNC IN/OUT connectors	Input connector: BNC-R with a 75 Ω termination switch Output connector: BNC-R External Word Sync: 32 kHz to 96 kHz	-	
Wireless Remote Control	Cross Remote (2.4-GHz IEEE802.15.4 compliant)	Cross Remote (2.4-GHz IEEE802.15.4 compliant)	
LAN Connector	RJ-45 modular jack 100BASE-TX: IEEE802.3u compliant	-	
Display	OLED	OLED	
Power Requirements	AC: 100 to 240 V 0.4 A or less DC: 12 V 1.6 A or less	7 V DC	
Operating Temperature	0°C to 50°C (32°F to 122°F)	0°C to 50°C (32°F to 122°F)	
Storage/Transport Temperature	-20°C to +60°C (-4°F to +140°F)	-20°C to +60°C (-4°F to +140°F)	
Dimensions	482 x 44 x 335 mm (W x H x D)	88 x 119 x 31 mm (W x H x D)	
Mass	Approx. 4.1 kg (including the attached antenna)	Approx. 280 g (including the supplied antennas)	
Supplied Accessories	Whip antenna (2), Antenna mount with BNC connector (2), AC power cord (1), Foot (4), Operating Instructions (CD-ROM) (1), PC control software (CD-ROM) (1)	Whip antenna (2), USB adapter cable (1), USB cable (1), CD-ROM (1), Frequency band label (1)	

*0dBuV= 1μV EMF, 0dBu=0.775Vrms, 0dBV=1V, 0dB SPL=2x10⁻⁵ Pa

		WD-850 UHF Antenna Divider
Input/Output	Frequency Range	US : 470 to 806 MHz CE : 470 to 862 MHz J : 770 to 810 MHz
	Antenna Input	BNC-R, 50 Ω (x4), (2 inputs 2 channels)
	Supply Voltage For Booster	DC 9V/OFF switchable (supplied through the antenna input connectors)
	Output Connector	BNC-R, 50 Ω (x8), (4 outputs 2 channels)
	Cascaded Output	BNC-R, 50 Ω (x2), (1 input 2 channels)
	RF Transmission Loss	±3 dB (between antenna input to output)
	Inter-Connector Connection Loss	15 dB or more
Input/Output VSWR	3.0 or less	
General	Power Requirements	US: 120 V AC, 60 Hz CE: 230 V, 50 Hz J: AC 100V, 50Hz/60Hz
	Power Consumption	18 W (when 100 mA is being supplied to the antenna booster)
	Operating Temperature	0°C to 50°C
		32°F to 122°F
	Storage/Transport Temperature	-20°C to +60°C
		-4°F to +140°F
	Dimensions	Approx. 482 × 44 × 285 mm (W x H x D)
Approx. 19 x 1 3/4 x 11 1/4 inches (W x H x D)		
Mass	Approx. 4.4 kg Approx. 9 lb 11 oz	
Supplied Accessories	50 Ω terminator (6)	
	AC power cord (1) Operating Instructions (1)	

Specifications

	DWA-01D Wireless Adapter	DWA-F01D Wireless Adapter
Audio output connector	Analog/Digital: SMC9-4S (female) (OUTPUT1/2)	Analog: XLR-3-32 type (OUTPUT 1/OUTPUT 2) Digital: BNC-R
Analog output impedance	150 ohms or less	150 ohms or less
AES3-id output impedance	110 ohms	75 ohms
WORD SYNC IN connector	BNC-R, 75 ohms (when the DWR-S02D is attached to the adapter and 75-ohm termination is added)	BNC-R, 75 ohms (when the DWR-S02D is attached to the adapter and 75-ohm termination is added)
OUTPUT 1/2 or Phones connector	Ø 3.5 mm TRS jack	Ø 3.5 mm TRS jack
OUTPUT 1/2 or Phones level	50 mW (16-ohm load, at T.H.D = 1%)	MIC LEVEL selected: -52 dBu PHONES selected: 50 mW (16-ohm load, at T.H.D = 1%)
Power requirements	12 V DC	12 V DC (DC IN), 7.2 V DC (battery)
Operating voltage	10 V DC to 17 V DC	10 V DC to 17 V DC (DC IN), 6 V DC to 8.4 V DC (battery)
Maximum continuous operation	-	Approx. 5 hours (ambient temperature of 25 °C (77 °F), °F), fully charged Sony NP-F570 lithium-ion battery, OUTPUT 1/2 unused, DWR-S01D CH1/CH2 ON, wireless remote control function OFF, auto switch for display set to AUTO DIMMER)
Operating temperature	0 °C to 50 °C (32 °F to 122 °F)	0 °C to 50 °C (32 °F to 122 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)	-20 °C to +60 °C (-4 °F to +140 °F)
Dimensions	Approx. 88 × 144 × 31.5 mm (W x H x D)	Approx. 142 × 125 × 39 mm (W x H x D)
Mass	Approx. 330 g	Approx. 400 g (excluding receiver and battery)
Supplied accessories	DC power cable (for 4-pin connector) (1), Mount plate (1), Audio cable (2)	DC power cable (for 4-pin connector) (1), Operating Instructions (1), CD-ROM (1)

	AN-01 UHF Antenna	AN-57 Ground Plane Antenna
Frequency range	470 to 862 MHz	638 MHz to 810 MHz (When supplied elements are attached: 470 MHz to 638 MHz)
Antenna gain	5 dBi or more	0 dBi (from center frequency)
Voltage standing wave ratio	2.5 or less	3 or less (from center frequency)
Directivity	Half power angle: 150 degrees or less Front to back ratio: 12 dB or more	Horizontal, omnidirectional
Booster Frequency range	470 to 862 MHz	-
Booster gain	18 dB/10 dB/0 dB, switchable	-
Output impedance	50 ohms	Impedance 50 Ω (representative value)
Booster Voltage standing wave ratio	3 or less	-
Noise figure	6 dB or less	-
Third order intermodulation	60 dB or more (95 dBμVEMF input)	-
Output connector	BNC-R type	BNC-R type
Supply voltage	9 V/12 V DC	-
Current consumption	100 mA or less	-
Operation temperature	0 °C to 50 °C (32 °F to 122 °F)	-
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)	-
Dimensions	Approx. 343 × 341 × 36 mm (W x H x D)	Ø121 × 288 mm (When supplied elements are attached: Ø153 × 320 mm)
Mass	Approx. 530 g	Approx. 280 g
Supplied accessories	Microphone stand attachment pole/ grip (1 set), Stand Adapter, PF1/2 to W5/8 type (1), PF1/2 to W3/8 type (1), Operating Instructions (1)	Antenna Elements (4), Operating Instructions (1)

	RMU-01 Remote Control Unit
Radio system	Conforms to IEEE802.15.4
Frequency range of transmission/ Reception	2405 MHz to 2480 MHz
Antenna gain	2 dB
Antenna power	1 mW
Remote control distance	10 m (33 feet) at maximum (per unit)
LAN transmission speed	10 M/100 Mbps (automatic detection)
Connectors	LAN connector: RJ45-type, eightpin (accepts PoE power)
Supply voltage	When the PoE device is used: 48 V DC When the AC adapter is used: 12 V DC
Current consumption	When the PoE device is used: 50 mA or less When the AC adapter is used: 100 mA or less
PoE power reception	Conforms to IEEE802.3af (supports mode A and B)
Operation temperature	When the PoE device is used: 0 °C to 50 °C (32 °F to 122 °F) When the AC adapter is used: 0 °C to 45 °C (32 °F to 113 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Dimensions	107 × 151 × 30 mm (W x H x D)
Mass	Approx. 300 g (10.5 oz)
Supplied accessories	AC adapter (1), Bracket (2), Screw adapter (2), Screws (1 set), Safety wire (1), Operating Instructions (1), CD-ROM (1)

Ultimate Sound with Digital Audio Processing

High-quality Sound
Superior Operability
Low Profile and Lightweight



UWP

UHF Wireless
microphone package

Innovation in Sound - - Introducing the new UWP-D Series wireless microphone system, which realizes high-quality sound and stable wireless transmission utilizing true diversity reception system

High-quality Sound with Digital Audio Processing

Innovation in Sound -- Introducing the new UWP-D Series wireless microphone system, which realizes high-quality sound and stable wireless transmission utilizing true diversity reception system. Since its introduction in 2003, the UWP Series has been widely used in a broad range of applications, not only for ENG (electronic news gathering) and EFP (electronic field production), but also for live concerts, sporting events, documentaries, and weddings.

High-quality Sound

Sony's Digital Audio Processing technology improves transient response performance, and realizes high-quality sound.

Superior Operability

Performs channel settings via Automatic Channel Setting mode.

Low Profile and Lightweight

The small body size and lightweight design are ideal for use in small camcorders or interchangeable-lens digital cameras.



UWP-D11



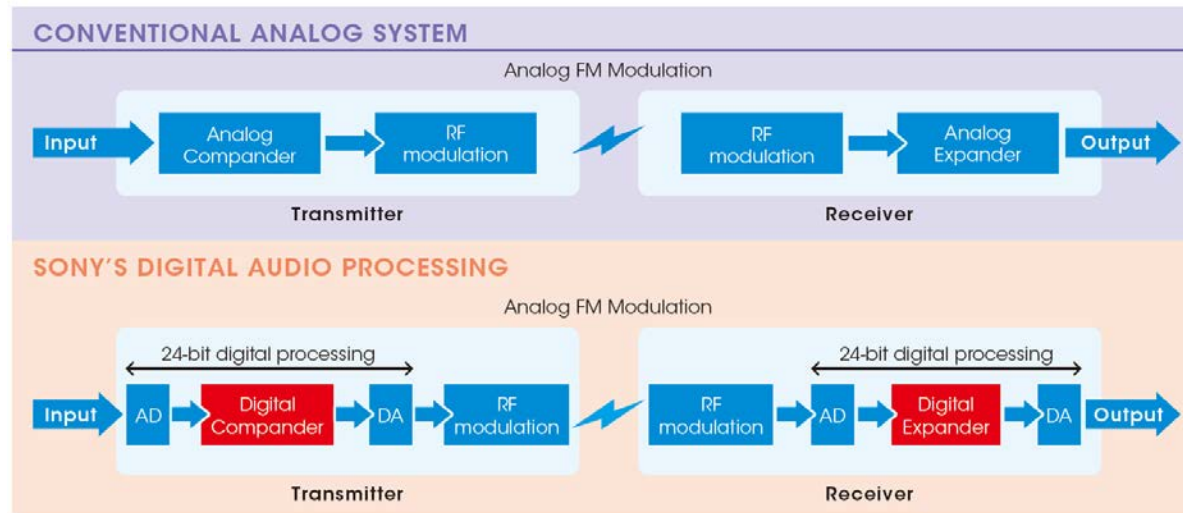
UWP-D12



UWP-D16

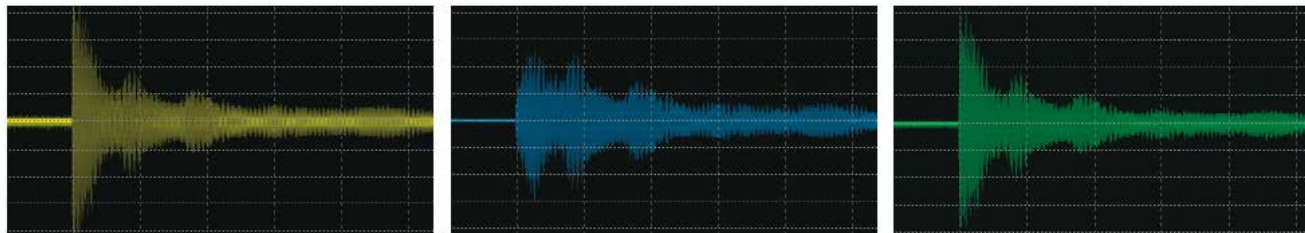
Sony's Digital Audio Processing

Sound quality is the most important issue in wireless transmission. Conventional analog systems make use of compressors to provide the required dynamic range. However, while compressor systems have improved over time, their inherent problems with sound quality and transient response performance have yet to be completely solved. Sony's newly developed Digital Audio Processing, which uses DSP (digital signal processing) for digital compressing, realizes high sound quality.



DSP optimizes a time-constant range between the transmitter and receiver. It provides superb transient response performance. While analog compressing systems cannot reproduce sounds such as a bell or tee shot with precision, Sony's Digital Audio Processing can reproduce them very accurately.

Dynamic Response



Original Sound

Analog System

Digital Audio Processing

DSP also can correct characteristics of frequency response in the transmission process for precise reproduction of original sounds.

Multi Interface Shoe Adaptor (Option)

The wireless receiver of the UWP-D Series can be attached to camcorders or interchangeable-lens cameras that have an MI (Multi-Interface) shoe using the MI shoe adaptor. This eliminates the need for connecting cables. By using the MI shoe adaptor, audio signals can be transmitted from the wireless receiver to a camera. In addition, the wireless receiver can get power from the camera, and the camera can control power ON/OFF, unifying power management*¹.



XLR cable connection



- Need audio cable
- Need AA alkaline battery
- Need On/Off manual operation






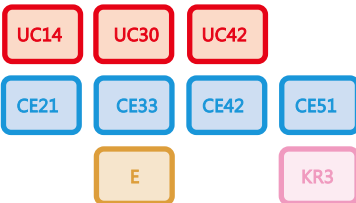
MI Shoe connection



- No need audio cable
- Power supply from camera*¹
- On/Off control from camera*¹

*¹ For details on cameras that support this unit, visit the Sony website.

Package Lineup

			Frequencies as follows
<p>UWP-D11</p> 	 <p>UTX-B03 : Bodypack Transmitter</p> <p>URX-P03 : Portable Receiver</p>  <p>Omni-directional Lavalier Microphone</p> <p>Microphone Holder Clip</p> <p>XLR-BMP Cable</p> <p>Stereo Mini-BMP Cable</p> <p>Belt Clip</p> <p>Shoe Mount Adaptor</p> <p>Windscreen</p>		
<p>UWP-D12</p> 	 <p>UTX-M03 : Handheld Wireless Microphone</p> <p>URX-P03 : Portable Receiver</p>  <p>Microphone Holder Clip</p> <p>XLR-BMP Cable</p> <p>Stereo Mini-BMP Cable</p> <p>Belt Clip</p> <p>Shoe Mount Adaptor</p>		
<p>UWP-D16</p> 	 <p>UTX-P03 : Plug-on Transmitter</p> <p>UTX-B03 : Bodypack Transmitter</p> <p>URX-P03 : Portable Receiver</p>  <p>Omni-directional Lavalier Microphone</p> <p>Microphone Holder Clip</p> <p>XLR-BMP Cable</p> <p>Stereo Mini-BMP Cable</p> <p>Belt Clip</p> <p>Shoe Mount Adaptor</p> <p>Windscreen</p> <p>Soft Case</p>		

Products



UTX-B03 Bodypack Transmitter

- Sony's Digital Audio Processing
- Compatibility with UWP Series / WL-800 Series
- Extremely compact, lightweight, and robust metal body
- USB for power supply or charging batteries
- Switchable MIC/LINE input level and adjustable attenuator (0 dB to 21 dB, 3-dB steps)
- Supplied with omni-directional lavalier microphone



UTX-P03 Plug-on Transmitter

- Sony's Digital Audio Processing
- Converts a wired microphone to a wireless microphone via an XLR-type connector
- Compatibility with UWP Series / WL-800 Series
- USB for power supply or charging batteries
- Extremely compact, lightweight, and robust metal body
- +48 V power supply



UTX-M03 Handheld Wireless Microphone

- Sony's Digital Audio Processing
- Incorporates an all-metal, robust, uni-directional dynamic microphone capsule with minimized popping and wind noise
- Compatibility with UWP Series / WL-800 Series
- USB for charging batteries
- Interchangeable microphone capsule



URX-P03 Portable Receiver

- Sony's Digital Audio Processing
- Easy-to-use Automatic Channel Setting mode
- Space Diversity Reception System for stable reception
- Compatibility with UWP Series / WL-800 Series
- Headphone output for monitoring
- Extremely compact, lightweight, and robust metal body
- USB for power supply or charging batteries
- Output level control

Accessories



ECM-V1BMP
Omni-directional Lavalier Microphone



AD-RV1B2
Windscreen Pack (SPCS)



SAD-HV1B2
Holder Clip Pack (4PCS)



BATC-3AA
Battery Case



BLC-BP2
Belt Clip (2PCS)



SMAD-P2
Shoe Mount Adaptor



SMAD-P3
MI Shoe Mount Adaptor



SAD-M01
Microphone Holder



EC-0.46BX
3-pole Locking Mini Plug-XLR(M) Cable



EC-1.5BX
3-pole Locking Mini Plug-XLR(F) Cable



EC-0.8BM
3-pole Locking Mini Plug-Stereo Mini Plug Cable



LCS-URXP3
Soft Case



ECM-X7BMP
Uni-directional Lavalier Microphone



ECM-77BMP
Omni-directional Lavalier Microphone



ECM-44BMP
Omni-directional Lavalier Microphone



ECM-166BMP
Uni-directional Lavalier Microphone



ECM-FT5BMP
Omni-directional Lavalier Microphone



ECM-LZ1UBMP
Uni-directional Lavalier Microphone



ECM-322BMP
Omni-directional Headset Microphone



ECM-HZ1UBMP
Uni-directional Headset Microphone



CU-C31
Capsule Unit
• Condenser type
• Cardioid
• 60 Hz - 20 kHz



CU-F31
Capsule Unit
• Dynamic type
• Super cardioid
• 60 Hz - 18 kHz



CU-F32
Capsule Unit
• Dynamic type
• Wide cardioid
• 70 Hz - 18 kHz

How to Attach the Soft Case (Option)

For Handheld Camcorders



On the Grip Belt



LCS-URXP3
Soft Case

For Shoulder Camcorders



On Top of the Battery



V-Shoe Mount



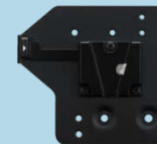
Direct Mount



A-8278-057-B
Mounting Bracket



A-8278-057-B
Mounting Bracket



A-1528-515-A
Mounting Plate



SMAD-V1
V-Shoe Mount Adaptor
* Remove the V-Shoe part



SMAD-V1
V-Shoe Mount Adaptor



LCS-URXP3
Soft Case



LCS-URXP3
Soft Case

Frequencies

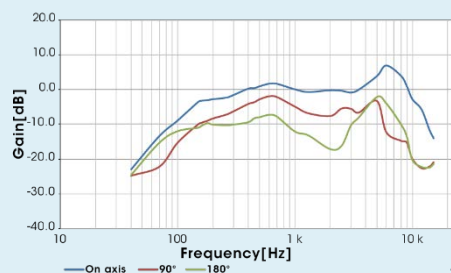
	Operating Frequencies	470 MHz to 542 MHz	566 MHz to 630 MHz	566 MHz to 638 MHz	638 MHz to 694 MHz	638 MHz to 698 MHz	710 MHz to 782 MHz	794 MHz to 806 MHz	806 MHz to 810 MHz	925 MHz to 937 MHz
UC	version	UC14		UC30 ^{*1}		UC42				
	Selectable Frequencies	564 (in 125-kHz steps) 2772 (in 25-kHz steps)		517 (in 125-kHz steps) 2541 (in 25-kHz steps)		470 (in 125-kHz steps) 2310 (in 25-kHz steps)				
CE	version	CE21	CE33		CE42		CE51			
	Selectable Frequencies	567 (in 125-kHz steps) 2880 (in 25-kHz steps)	504 (in 125-kHz steps) 2560 (in 25-kHz steps)		441 (in 125-kHz steps) 2240 (in 25-kHz steps)		567 (in 125-kHz steps) 2880 (in 25-kHz steps)			
CN	version						CN38			
	Selectable Frequencies						567 (in 125-kHz steps) 2880 (in 25-kHz steps)			
E	version							E		
	Selectable Frequencies							94 (in 125-kHz steps)		
J	version								J	
	Selectable Frequencies								94 (in 125-kHz steps)	
KR	version									KR3
	Selectable Frequencies									94 (in 125-kHz steps)

*1 566 MHz to 608 MHz and 614 MHz to 638 MHz

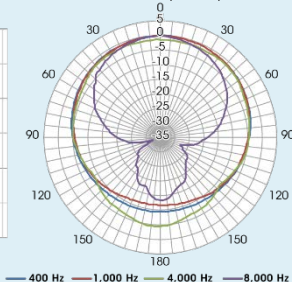
Specifications

UTX-M03

Frequency Response Characteristics

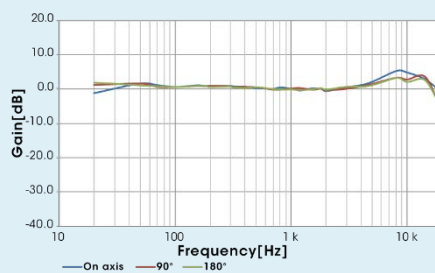


Directivity Characteristics (1kHz)

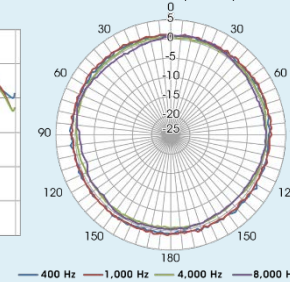


ECM-V1BMP

Frequency Response Characteristics



Directivity Characteristics (1kHz)



Model Code	ECM-V1BMP
Frequency Response	40 Hz to 20 kHz
Directivity	Omni-directional
Capsule Type	Condenser
Sensitivity	-43.0 dB ±3.0 dB (1 kHz/Pa)
Dynamic Range	86 dB or more
Maximum Input Sound Pressure Level	120 dB SPL
Microphone Head	Φ6.8 x 19.5 mm (9/32 X 25/32 inches) (diameter/length)
Mic Cable	1.2 m (3.9 feet)
Power Requirements	DC 5 V
Supplied Accessories	Windscreen (1) Horizontal Clip (1)

Specifications

UTX-B03 Backpack transmitter		UTX-M03 Handheld wireless microphone	UTX-P03 Plug-on transmitter
Oscillator Type	Crystal-controlled PLL Synthesizer		
Antenna Type	1/4 wave length wire	1/4 wave length wire (internal)	Integral type
Type of Emission	F3E		
Carrier Frequencies	UC	UC14 : 470.125 MHz to 541.875 MHz	
		UC30 : 566.125 MHz to 607.875 MHz and 614.125 MHz to 637.875 MHz	
		UC42 : 638.125 MHz to 697.875 MHz	
	CE7	CE21 : 470.025 MHz to 542.000 MHz	
		CE33 : 566.025 MHz to 630.000 MHz	
		CE42 : 638.025 MHz to 694.000 MHz	
	CN	CN38 : 710.025 MHz to 782.000 MHz	-
	E	E : 794.125 MHz to 805.875 MHz	
J	JB : 806.125 MHz to 809.750 MHz	-	
KR	KR3 : 925.125 MHz to 937.500 MHz		
RF Power	UC	40 mW / 5 mW	
	CE7	30 mW / 5 mW	
	CN	-	
	J	-	
	KR/E	10 mW / 2 mW	
Capsule Type	Electret condenser	Dynamic	-
Directivity	Omni-directional	Uni-directional	-
Input Connector	3-pole locking mini jack	-	XLR-3-11C (female)
Phantom Power Voltage	-	-	+48V
Reference Input Level	MIC: -60 dBV (at 0-dB attenuator level) / LINE: +4 dBu	-	MIC: -60 dBV (at 0-dB attenuator level) / LINE: +4 dBu
Maximum Input Level	-	151 dB SPL (at 21-dB attenuator level)	-
Audio Attenuator Adjustment Range	0 dB to 21 dB (in 3-dB steps): Mic input	0 dB to 21 dB (in 3-dB steps)	0 dB to 21 dB (in 3-dB steps): Mic input
Frequency Response	UC/CE7/CN/KR/E	Transmission: 23 Hz to 18 kHz (typical)	Transmission: 23 Hz to 18 kHz (typical)
		Capsule Unit: 70 Hz to 18 kHz	-
Frequency Response	J	Transmission: 23 Hz to 15 kHz (typical)	-
		Capsule Unit: 70 Hz to 18 kHz	-
Signal-to-Noise Ratio	96 dB (max deviation, A-weighted)		
Audio Delay	Approx. 0.35 msec		
Pilot Tone Signal	32 kHz / 32.382 kHz / 32.768 kHz		
Display	LCD		
Power Requirements	DC 3.0 V (with two AA-size alkaline (LR6) batteries)		
	DC 5.0 V (via USB micro-B)		
Battery Operating Time	UC/CE7/CN: Approx. eight hours with Sony's AA-size alkaline (LR6) batteries at 25°C (77°F) at 30-mW output		UC: Approx. six hours with Sony's AA-size alkaline (LR6) batteries at 25°C (77°F) at 50-mW output
	E/KR3/J: Approx. 10 hours with Sony's AA-size alkaline (LR6) batteries at 25°C (77°F) at 10-mW output		CE7: Approx. eight hours with Sony's AA-size alkaline (LR6) batteries at 25°C (77°F) at 30-mW output
Storage/ Transport Temperature	-20°C to +55°C (-4°F to +131°F)		
Dimensions	63 x 82 x 20 mm (2 1/2 x 3 1/4 x 13/16 inches) (excluding the antennas) (W x H x D)	ø48 x 260 mm (1 15/16 x 10 1/4 inches) (diameter / length)	42 x 42 x 102 mm (1 11/16 x 1 11/16 x 4 1/8 inches) (W x H x D)
Mass	Approx. 149 g (5.3 oz) (including batteries)	Approx. 296 g (10 oz) (including batteries)	Approx. 197 g (6.9 oz) (including batteries)

URX-P03 Portable receiver		
Oscillator Type	Crystal-controlled PLL Synthesizer	
Antenna Type	True diversity	
Type of Emission	1/4 wave length wire	
Carrier Frequencies	UC	UC14 : 470.125 MHz to 541.875 MHz
		UC30 : 566.125 MHz to 607.875 MHz and 614.125 MHz to 637.875 MHz
		UC42 : 638.125 MHz to 697.875 MHz
	CE7	CE21 : 470.025 MHz to 542.000 MHz
		CE33 : 566.025 MHz to 630.000 MHz
		CE42 : 638.025 MHz to 694.000 MHz
		CE51 : 710.025 MHz to 782.000 MHz
	CN	CN38 : 710.025 MHz to 782.000 MHz
	E	E : 794.125 MHz to 805.875 MHz
	J	JB : 806.125 MHz to 809.750 MHz
KR	KR3 : 925.125 MHz to 937.500 MHz	
Frequency Response	23 Hz to 18 kHz (typical)	
Signal-to-Noise Ratio	96 dB (max deviation, A-weighted)	
Distortion (T.H.D)	0.9% or less (-60 dBV, 1 kHz input)	
Audio Delay	Approx. 0.35 msec	
Analog Output	3-pole mini jack, unbalanced	
Analog Output Level	-60 dBV (at ±5 kHz deviation)	
Audio Attenuator Adjustment Range	-12 dB to +12 dB (3-dB step)	
Headphone Output	ø3.5 mm (5/32 inch) stereo mini jack	
Headphone Output Level	5 mW (at 16-ohm load)	
Pilot Tone Signal	32 kHz / 32.382 kHz / 32.768 kHz	
Display	LCD	
Power Requirements	DC 3.0 V (with two AA-size alkaline (LR6) batteries)	
	DC 5.0 V (via USB micro-B)	
Battery Operating Time	Approx. six hours with Sony's AA-size alkaline (LR6) batteries at 25°C (77°F)	
Operating Temperature	0°C to 50°C (32°F to 122°F)	
Storage/ Transport Temperature	-20°C to +55°C (-4°F to +131°F)	
Dimensions	63 x 82 x 23.8 mm (2 1/2 x 3 1/4 x 15/16 inches) (excluding the antennas) (W x H x D)	
Mass	Approx. 176 g (6.2 oz) (including batteries)	

*0dBμV= 1μV EMF, 0dBu=0.775Vrms, 0dBV=1V, 0dB SPL=2x10⁻⁵ Pa

Compatibility with UWP Series / WL-800 Series

DSP enables a digital compander to match Sony's analog wireless system. The UWP-D transmitter can be used with a UWP Series or WL-800 Series receiver, and a UWP Series or WL-800 Series transmitter can be used with a UWP-D receiver

Transmitter	Receiver	COMPANDER MODE
UWP-D	UWP-D	UWP-D
UWP	UWP-D	UWP
UWP-D	UWP	UWP
WL800	UWP-D	WL800
UWP-D	WL800	WL800

UWP-D: High speech quality mode supported in combination with UWP-D series devices.

UWP: Mode supported in combination with Sony UWP series transmitters.

WL800: Mode supported in combination with Sony 800-series transmitters.



WRR-855S

UHF Synthesized Diversity Tuner

- Space Diversity Tuner for camcorder use
- Easily mounts onto Sony HDCAM™/XDCAM™ HD422/Digital Betacam™/XDCAM SD/ MPEG IMX™ camcorders without need for audio/power cables or a mounting adapter
- 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
- A LCD provides various information such as RF input level and audio output status



DWA-01D

Digital wireless adapter

- For use with DWR-S01D or DWR-S02D receiver
- Stand-alone wireless receiver operation
- Wide array of interfaces including two-channel AES3 digital or analogue output
- Unique lock-together mechanism to allow two DWA-01D adaptors to be easily combined
- Supports V-mount attachment
- Hirose 4-pin DC powering



BTA-801

Portable Tuner Mount Adapter

- Allows a WRR-855S portable tuner to be mounted on a Sony professional camcorder
- External DC power input via the supplied 4-pin cable



DWA-F01D

Digital wireless adapter

- For use with DWR-S01D or DWR-S02D receiver
- Stand-alone wireless receiver operation
- Top-panel operation for mixer bag
- Three-way powering (Hirose 4-pin DC powering, DC In and NP-Batteries)
- Three-parallel audio output, including XLR analogue output, BNC AES/EBU digital output and mini-phone analogue output

Accessories



LCS-F01D

Soft Carrying Case

Specifications

WRR-855S UHF Synthesized Diversity Tuner	
Receiving channels	1 channel
Receiving frequency range	566 MHz to 590 MHz (U30/32) 638 MHz to 662 MHz (U42/44) 606 MHz to 630 MHz (CE38) 758 MHz to 782 MHz(CN) 782 MHz to 806MHz (U6668) 806 MHz to 810MHz (JB) 925 MHz to 932MHz(KR)
Local oscillators	1st: PLL synthesizer 2nd: PLL synthesizer
De-emphasis	50 μ s
Reference deviation	\pm 5 kHz deviation at 1 kHz modulation (Maximum deviation: \pm 40 kHz deviation at 1 kHz modulation)
Selectivity	60 dB or more at \pm 250 kHz
Spurious rejection	80 dB or more
Frequency range	40 Hz to 18 kHz (typical)
Signal-to-noise ratio	60 dB or more at 60 dB μ RF input at reference deviation, A-weighted
RF muting (squelch) level	10 dB μ or OFF
Audio output level	-40 dBu at reference deviation
Audio output connector	D-sub 15-pin (1), unbalanced
Antenna connector	BNC-R type (2), 50 Ω (nominal)
Operating voltage	External: DC 7 V
Current (power) consumption	200 mA or less at external DC 7 V
Dimensions (W x H x D)	88.0 x 119.0 x 31.3 mm (3 1/2 x 4 3/4 x 1 1/4 inches)
Mass	Approx. 280 g (10.0 oz)
Supplied accessories	Antennas (1 pair), Operating instructions (1)

*The WRR-855S receives power from a camcorder via the D-sub 15-pin connector.

**0dB μ V= 1 μ V EMF, 0dBu=0.775Vrms, 0dBV=1V, 0dB SPL=2x10⁻⁵ Pa

Products UWP-X Series

UWP-X7

Fixed all-metal belt-pack UHF wireless microphone package

- UTX-B2 belt-pack transmitter
- URX-M2 tuner module
- Supplied accessories: Lavalier microphone (x1), windscreen (x1), microphone holder clip (x1), belt clip (x1)



URX-M2

Tuner module

- Installed in the MB-X6 tuner unit or the SRP-X500P all-in-one type presentation mixer/amplifier
- Can use up to six receivers in MB-X6 mainframe
- UWP is available in CH33, CH38, CH42 and CH51 with 24MHz Bandwidth*



MB-X6 Tuner Base Unit



Front Panel: MB-X6 with six WRU-806A/806B tuner units installed



Rear Panel

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

UTX-B2

Belt-pack transmitter

- Extremely compact, lightweight and robust metal body
- Switchable MIC/LINE input level and adjustable attenuator (0 to 21dB, 3dB steps)
- Supplied with omni-directional Lavalier microphone
- UWP is available in CH33, CH38, CH42 and CH51 with 24MHz Bandwidth*
- Output power is 5/30mW



UTX-M03

Handheld Wireless Microphone

- Sony's Digital Audio Processing
- Incorporates an all-metal, robust, uni-directional dynamic microphone capsule with minimized popping and wind noise
- Compatibility with UWP Series / WL-800 Series
- USB for charging batteries
- Interchangeable microphone capsule



SRP-X500P Digital Powered Mixer



SRP-X500P with two URX-M2 tuner modules installed

SRP-X700P Digital Powered Mixer



SRP-X700P with two URX-M2 tuner modules installed

Accessories UWP-X Series



AD-RX7B
Windscreen Pack (5PCS)



SAD-HV1B
Holder Clip Pack (4PCS)



BATC-2AA
Battery Case



SAD-M01
Microphone Holder



ECM-X7BMP
Lavalier Microphone



ECM-166BMP
Uni-directional
Lavalier Microphone



ECM-LZ1UBMP
Uni-directional
Lavalier Microphone



ECM-322BMP
Omni-directional
Headset Microphone



ECM-HZ1UBMP
Uni-directional
Headset Microphone



AN-820
UHF Antenna



AN-57
UHF ground
plane antenna

Frequencies UWP-X Series

	Operating Frequencies	566 MHz to 590 MHz	566 MHz to 590 MHz	606 MHz to 630 MHz	638 MHz to 662 MHz	638 MHz to 662 MHz	758 MHz to 782 MHz	794 MHz to 806 MHz	806 MHz to 810MHz	925 MHz to 932MHz
UC	version Selectable Frequencies		UC3032 188 (in 125kHz steps)			UC4244 188 (in 125kHz steps)				
CE	version Selectable Frequencies	CE33 189 (in 125kHz steps)		CE38 189 (in 125kHz steps)	CE42 189 (in 125kHz steps)					
CN	version Selectable Frequencies					CN 188 (in 125kHz steps)				
E	version Selectable Frequencies							E 94 (in 125kHz steps)		
J	version Selectable Frequencies								JB 30 (in 125kHz steps)	
KR	version Selectable Frequencies									KR 55 (in 125kHz steps)

Specifications

UTX-B2X Bodypack Transmitter		URX-M2 Tuner Module
Oscillator	Crystal-controlled PLL Synthesizer	
Type of emission	F3E	Space diversity
Carrier frequencies	U3032	566 MHz to 590 MHz, selectable from 188 frequencies (in 125-kHz steps)
	U4244	638 MHz to 662 MHz, selectable from 188 frequencies (in 125-kHz steps)
	CE33	566 MHz to 590 MHz, selectable from 189 frequencies (in 125-kHz steps) / 960 frequencies (in 25-kHz)
	CE38	606 MHz to 630 MHz, selectable from 189 frequencies (in 125-kHz steps) / 960 frequencies (in 25-kHz)
	CE42	638 MHz to 662 MHz, selectable from 189 frequencies (in 125-kHz steps) / 960 frequencies (in 25-kHz)
	CN	758 MHz to 782 MHz, selectable from 188 frequencies (in 125-kHz steps)
	E	794 MHz to 806 MHz, selectable from 94 frequencies (in 125-kHz steps)
	J	806 MHz to 810MHz, selectable from 30 frequencies (in 125-kHz steps)
KR	925 MHz to 932MHz, selectable from 55 frequencies (in 125-kHz steps)	
RF power output	30mW/5mW selectable (U,CE7,CN models) 10mW/2mW selectable (E, J, KR3 model)	-
Antenna	1/4 wave length wire	
Pilot tone signal	32 kHz	
RF squelch level	-	25 dB μ
Frequency response	40 Hz to 18 kHz (typical) (U,CE7,CN,E,KR) 50 Hz to 15 kHz (typical) (J)	40 Hz to 18 kHz (typical) (U,CE7,CN,E,KR) 50 Hz to 15 kHz (typical) (J)
Reference deviation	± 7 kHz (-60 dBV, 1-kHz input) (U,CE7,CN,E,KR) ± 5 kHz (-66 dBV, 1-kHz input) (J)	± 5 kHz (at 1-kHz modulation)
Signal-to-noise ratio	60 dB or more (± 7 -kHz deviation at 1-kHz modulation, A-	60 dB or more (± 5 -kHz deviation at 1-kHz modulation, A-weighted)
Microphone capsule	Electret condenser, omni-directional (UTX-B2V) Electret condenser, uni-directional (UTX-B2X)	-
Audio attenuator adjustment range	0 dB to 21 dB (in 3-dB steps): Mic input	-
Audio input level	MIC: -60 dBV (at 0-dB attenuator level) LINE: +4 dBu	-
Audio connector	Input: 3-pole mini jack	Output: 3-pole mini jack, unbalanced
Indicators	LCD	Operating channel number/frequency, attenuator level, RF level (High/Low), audio input status, transmitter battery accumulated operating time
	LED	Audio input status
Power requirements	DC 3.0 V (with two AA-size alkaline (LR6) batteries)	DC 9.0 V
Battery life	Approx. eight hours with Sony's AA-size alkaline (LR6) 25°C(77°F) at 30-mW output (except E model) Approx. ten hours with Sony's AA-size alkaline (LR6) 25°C(77°F) at 10-mW output (E model)	-
Dimensions (W x H x D)	63 x 82.5 x 18.7 mm (2 1/2 x 3 1/4 x 3/4 inches) excluding the antennas	57 x 26 x 121 mm (2 1/4 x 1 1/16 x 4 7/8)
Mass	Approx. 145 g (5.1 oz), including batteries	Approx. 150 g (5.3 oz)

MB-X6 Tuner Base Unit	
Receiving channels	6 channels when accommodating 6 URX-M2 tuner modules
Receiving frequency range	566 MHz to 862 MHz
Audio output level	-20 dBu* (LINE)/-58 dBu* (MIC) at reference deviation
Audio output connector	XLR-3-32 (7), balanced
Antenna attenuator level	0 dB or 10 dB
Antenna connector	Inputs: BNC-R type (2), 50 Ω (nominal)
Operating voltage	AC 120 V, 60 Hz (USA-type) AC 230 V, 50/60 Hz (AU-type)
Current (power) consumption	30 W when accommodating six WRU-806A/806B tuner modules
Dimensions (W x H x D)	482 x 44 x 285 mm (19 x 1 3/4 x 11 1/4 inches)
Mass	Approx. 5.5 kg (12 lb 2 oz)
Supplied accessories	AC power cord (1), Antennas (1 pair), Operating instructions (1)

*0dB μ V= 1 μ V EMF, 0dBu=0.775Vrms, 0dBV=1V, 0dB SPL=2x10⁻⁵ Pa

Digital wireless audio packages using 2.4GHz ISM band, for musicians and presenters

High quality digital sound and reliable RF transmission providing superior performance from Sony.

DWZ

Epic digital wireless technology, amazingly affordable



“

The DWZ-M50 mic is heavy enough to feel like a quality built piece of kit, but without being so heavy it would make your arm ache. The weight has also been nicely balanced and the whole unit sits well in the hand.

My opinion of Sony has actually been turned around by this product. It is a very impressive and adaptable system which I would definitely recommend.

”

Ashley Riggs, Pro Mobile, Issue 59

Great Performances for Presenters and Vocalists

Experience stable and reliable sound from Sony. With 24-bit linear PCM digital transmission, you get high sound quality with high reliability, utilizing unique transmission technology also developed by Sony. With the support of two RF modes, your audio signal can be captured and transmitted reliably and easily.



DWZ-M70



DWZ-B70HL



DWZ-M50



DWZ-B50GB



DWZ-B50I

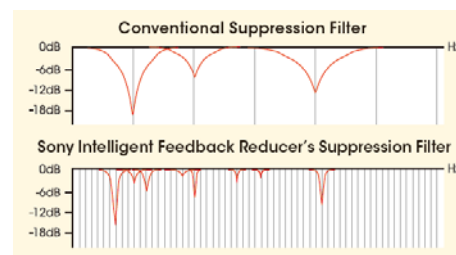


DWZ-B30GB

Technologies

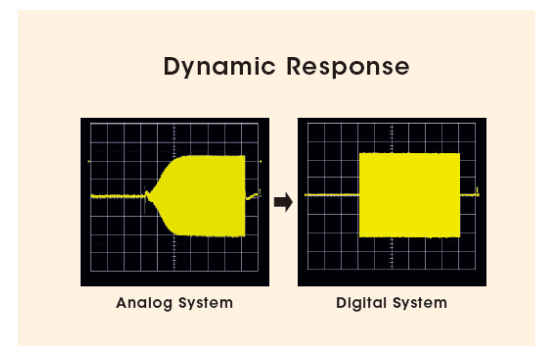
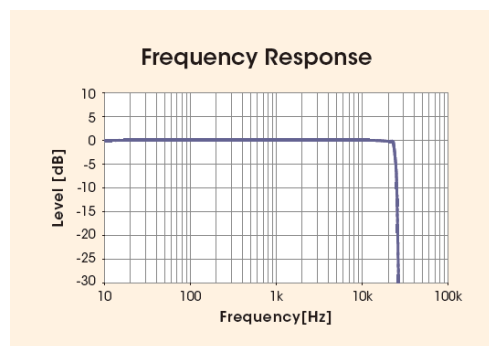
Intelligent Feedback Reducer DWZ-M70 DWZ-B70HL

The Sony Intelligent Feedback Reducer can suppress unwanted feedback (howling) with high-performance DSP and Sony's unique algorithms designed to eliminate feedback before it becomes unbearable. Also, the equivalent of maximum 1024-band suppression filters are continuously tuned automatically in real time, eliminating feedback and avoiding deteriorating the original signal; this delivers the highest quality sound that can be enjoyed by presenters, vocalists, and audiences. You can freely select the audio outputs to which you want this feedback reduction filter to apply – for example, you can output original audio to the main PA system, while processed audio is delivered to your monitor speakers.



Superb Digital Sound Quality

High-quality 24-bit linear PCM digital transmission offers a pristine audio experience, and a wide frequency range of 10 Hz to 22 kHz. With these high-quality digital sound packages, you can experience professional performances by presenters and vocalists. The audio performance degradation that's typical with conventional analog wireless systems is avoided, because these digital wireless packages are designed without the need for a compander.



Technologies

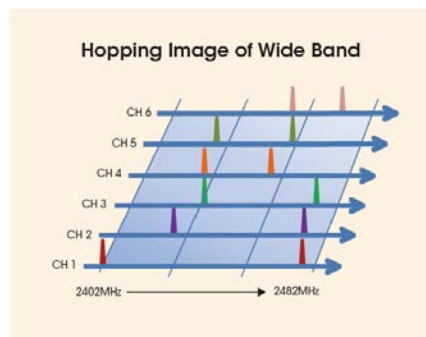
Two RF Modes for Reliable Transmission

The DWZ-M70 package and WZ-B70HL package provide two selectable RF modes. Simply choose the one that makes best use of your actual 2.4-GHz RF environment.

[Wide Band Hopping Mode]

This mode reduces interference with other wireless equipment used in the same environment, such as wi-fi devices. It doesn't require you to have technical knowledge about radio frequencies.

Wide Band Hopping Mode also supports additional error correction for more secure transmission*.

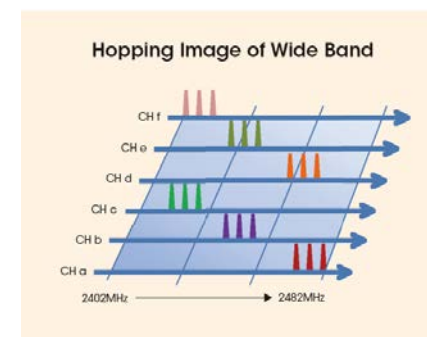


* Latency of approximately 5 ms.

[Narrow Band Hopping Mode]

This mode helps you to avoid interference from other devices – for example, 2.4-GHz wireless remote controllers that are commonly used for lighting control. This enables you to coordinate

frequencies when using multiple wireless systems simultaneously**.



** Latency of approximately 3 ms.

Battery Recharging System DWZ-M70 DWZ-B70HL

The BC-DWZ1 optional battery charger enables you to recharge NiMH batteries in the ZTX-M02RC and the ZTX-B02RC. The BC-DWZ1 is a contactless recharger; this means that you simply place the handheld microphone and/or bodypack transmitter into the charging station to recharge NiMH-type batteries. You do not need to physically remove the rechargeable batteries to recharge them, which saves you time and reduces wear and tear to the transmitters.

*BC-DWZ1 and NiMH battery are sold separately.



Package Lineup

DWZ-B70HL

Digital wireless Lavalier microphone set for presenters and vocalists



ZRX-HR70
Half-rack receiver



ZTX-B02RC
Belt-pack transmitter



ECM-HZ1UBMP
Headset microphone



Microphone holder clip



Cord Clip



Belt Clip



ECM-LZ1UBMP
Lavalier microphone



Antenna



AC adaptor

DWZ-M70

Digital wireless set for presenters and vocalists



ZRX-HR70
Half-rack receiver



ZTX-M02RC
Handheld microphone



Microphone holder



Antenna



AC adaptor

DWZ-M50

Digital wireless vocal set optimised for musicians and bands



ZRX-HR50
Half-rack receiver
(DIGITAL WIRELESS RECEIVER)



ZTX-M01
Handheld microphone
(DIGITAL WIRELESS RECEIVER)



Microphone holder



Antenna



AC adaptor

Package Lineup

DWZ-B50GB
Digital wireless guitar



ZRX-HR70
Half-rack receiver
(DIGITAL WIRELESS RECEIVER)



ZTX-B01
Bodypack transmitter
(DIGITAL WIRELESS RECEIVER)



GC-0.7BMP
Guitar cable



Antenna



Belt Clip



AC adaptor

DWZ-B50I
Digital wireless instrument set



ZRX-HR50
Half-rack receiver
(DIGITAL WIRELESS RECEIVER)



ZTX-B01
Bodypack transmitter
(DIGITAL WIRELESS TRANSMITTER)



ECM-GZ1UBMP
Gooseneck microphone



Antenna



Belt Clip



AC adaptor

DWZ-B30GB
Digital wireless set for guitar and bass



ZRX-C30
Compact receiver



ZTX-B01
Bodypack transmitter
(DIGITAL WIRELESS RECEIVER)



GC-0.7BMP
Guitar cable



Belt Clip



Belt Clip



AC adaptor

Products



ZRX-HR70

digital wireless half-rack receiver

- Intelligent Feedback reducer function
- 3-way parallel audio output .” TS phone (x2), Balanced XLR (x1)
- 5-Band graphic digital equalizer
- Colour LCD for simple operation and status monitoring for TX & RX
- Clear channel scan for easy set up
- Rack mountable 1U half-rack size (with optional RMM-HRD1 rack mount kit)
- Detachable whip antenna



ZRX-HR50

digital wireless half-rack receiver

- 3-way parallel audio output .” TS phone (x2), Balanced XLR (x1)
- 5-Band graphic digital equalizer
- Colour LCD for simple operation and status monitoring for TX & RX
- Clear channel scan for easy set up
- Rack-mountable 1U half-rack size (with optional RMM-HRD1 rack mount kit)
- Detachable whip antenna



Products



ZTX-M01

digital wireless handheld microphone

- Sony's original high-quality cardioid dynamic capsule
- Interchangeable capsule design, with a flexible choice of capsules, including CU-C31, CU-F31 and CU-F32
- Momentary switch for muting or talk-back application
- Lock function protects from inadvertent setting changes
- Two AA battery operation
- Robust metal body



ZTX-M02RC

Digital wireless handheld microphone

- AES 128-bit Encryption function
- Sony's original high-quality cardioid dynamic capsule
- Interchangeable capsule design, with a flexible choice of capsules
- Latch switch for power on/off for conventional operation
- Two AA battery operation with contactless rechargeable function (with optional BC-DWZ1 battery charger)
- Robust metal body



ZTX-B01

digital wireless belt-pack transmitter

- Muting function for tuning
- Lock function protects from inadvertent setting changes
- Two AA battery operation
- Robust metal body



ZTX-B02RC

Belt-pack transmitter

- AES 128-bit Encryption function
- Both cardioid condenser headset microphone and cardioid condenser Lavalier microphone are included
- Momentary switch for muting or talk-back application
- Two AA battery operation with contactless rechargeable function (with optional BC-DWZ1 battery charger)
- Robust metal body

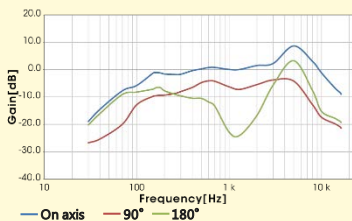
Accessories



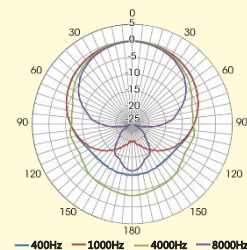
*1 For single/double use

Specifications

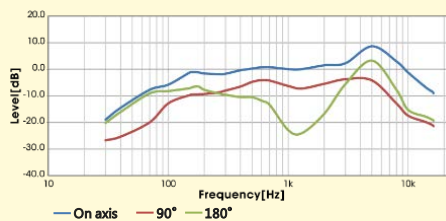
ZTX-M01
Frequency Response Characteristics



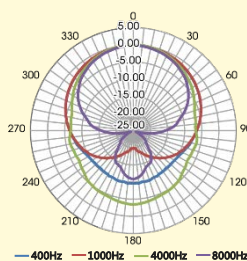
Directivity Characteristics (1 kHz)



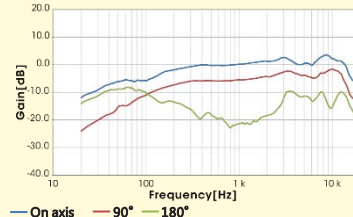
ZTX-M02RC
Frequency Response



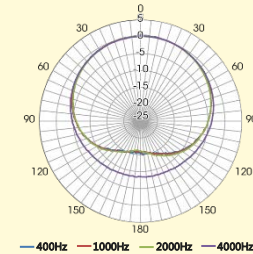
Directivity Characteristics



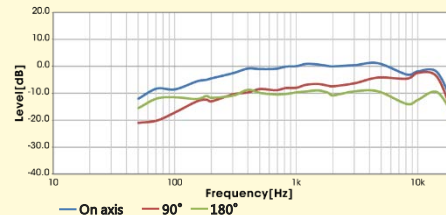
ECM-GZ1UBMP
Frequency Response Characteristics



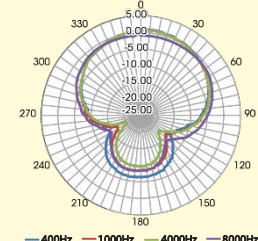
Directivity Characteristics (1 kHz)



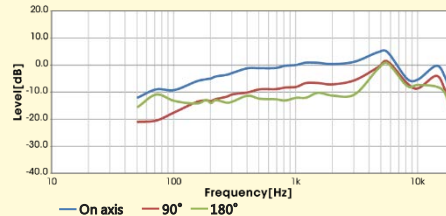
ECM-HZ1UBMP
Frequency Response



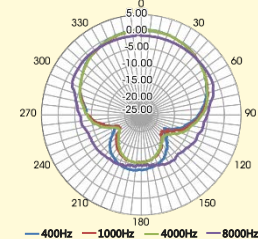
Directivity Characteristics



ECM-LZ1UBMP
Frequency Response



Directivity Characteristics



Specifications

		DWZ-M70	DWZ-B70HL	DWZ-M50
Transmitting Section	Transmitter Type	Handheld	Bodypack	Handheld
	Carrier Frequencies		2402.0 MHz to 2478.5 MHz	
	RF Power Output		10 mW (e.i.r.p.)	
Receiving Section	Receiver Type		rack-mount (Half / 1 channel)	
	Reception Type		Space diversity	
	Antenna Type		External whip antenna	
	Receiving Frequencies		2402.0 MHz to 2478.5 MHz	
	RF Sensitivity		24 dBµV or less	
Audio Section	Capsule Type	Dynamic	Electret condenser	Dynamic
	Directivity		Uni-directional	
	Maximum Input Level	142 dBSPL (with 12 dB attenuator)	MIC: -22 dBu INST/LINE: +8 dBu (when attenuator level is 0 dB)	142 dB SPL (with 12 dB attenuator)
	Audio Attenuator Adjustment Range	0 / 6 / 12 dB	0 / 10 / 20 dB	0 / 6 / 12 dB
	Frequency Response	Transmission: 10 Hz to 22 kHz Microphone unit: 70 Hz to 16 kHz	Transmission: 10 Hz to 22 kHz Headset Microphone: 60 Hz to 18 kHz Lavalier Microphone: 60 Hz to 18 kHz	Transmission: 10 Hz to 22 kHz Microphone unit: 70 Hz to 18 kHz
	Dynamic Range	102 dB (A-weighted)	MIC: 102 dB (A-weighted) INST/LINE: 98 dB (A-weighted)	102 dB (A-weighted)
	Audio Delay	Narrow band mode: Approx. 3 ms / Wide band mode: Approx. 5 ms (Transmitter + Receiver) (Additional Audio Delay for Intelligent Feedback Reducer/Low: 0ms, Mid: 8ms, High: 16ms)	Narrow band mode: Approx. 3 ms / Wide band mode: Approx. 5 ms (Transmitter + Receiver) (Additional Audio Delay for Intelligent Feedback Reducer/Low: 0ms, Mid: 8ms, High: 16ms)	Narrow band mode: Approx. 3 ms / Wide band mode: Approx. 5 ms (Transmitter + Receiver)
	Distortion (T.H.D)		0.03% or less (-38 dBu, 1 kHz input)	
	Analog Output	XLR-3-32, balanced (x1), Phone jack, unbalanced (x2) (Intelligent Feedback Reducer is available)	XLR-3-32, balanced (x1), Phone jack, unbalanced (x2) (Intelligent Feedback Reducer is available)	XLR-3-32, balanced (x1) / Phone jack, unbalanced (x2)
	Reference output level	Balanced Output : MIC: -58 dBu / LINE: -12 dBu Unbalanced Output: -28 dBu	Balanced Output : MIC: -58 dBu / LINE: -12 dBu Unbalanced Output: -28 dBu	Balanced Output MIC: -58 dBu / LINE: -12 dBu Unbalanced Output: -28 dBu
Other Equipment	Encryption	ASE 128-bit	ASE 128-bit	-
	Display		LCD	
	USB Port(for firmware update)		TX x1 / RX x 1	
General	Power Requirements	ZTX-M02RC: 3.0 V DC (two LR6 (size AA) alkaline dry cell batteries) (Rechargeable function is available with two HR6 (size AA) Ni-MH rechargeable batteries) ZRX-HR70: External DC input: 12 V DC	ZTX-B02RC: 3.0 V DC (two LR6 (size AA) alkaline dry cell batteries) (Rechargeable function is available with two HR6 (size AA) Ni-MH rechargeable batteries) ZRX-HR70: External DC input: 12 V DC	ZTX-M01: DC 3.0 V (two LR6 (size AA) alkaline dry cell batteries) ZRX-HR50: DC 12 V
	Battery Operating Time	Approx. 10 hours of continuous use (25 °C (77 °F) ambient temperature, Sony LR6 (size AA) alkaline dry cell batteries)	Approx. 10 hours of continuous use (25 °C (77 °F) ambient temperature, Sony LR6 (size AA) alkaline dry cell batteries)	Approx. 10 hours of continuous use (25 °C (77 °F) ambient temperature, Sony LR6 (size AA) alkaline dry cell batteries) Sony LR6 (size AA) alkaline dry cell batteries)
	Operating Temperature	0°C to 50°C / 32°F to 122°F		
	Storage/Transport Temperature	-20°C to +60°C (-4°F to +140°F)		
	Dimensions	ZTX-M02RC: φ 48 × 258 mm (1 15/16 × 10 1/4 inches) (diameter/length) ZRX-HR70: 168 × 44 × 96 mm (6 5/8 × 1 3/4 × 3 7/8 inches) (w/h/d)	ZTX-B02RC: 63 × 87 × 20 mm (2 1/2 × 3 1/2 × 13/16 inches) (w/h/d) (excluding the antenna) ZRX-HR70: 168 × 44 × 96 mm (6 5/8 × 1 3/4 × 3 7/8 inches) (w/h/d)	ZTX-M01: 48 × 258 mm (1 15/16 × 10 1/4 inches) (diameter/length) ZRX-HR50: 168 × 44 × 96 mm (6 5/8 × 1 3/4 × 3 7/8 inches) (w/h/d)
	Mass	ZTX-M02RC: Approx. 308 g (11 oz.) (including batteries) ZRX-HR70: Approx. 510 g (1 lb. 2.0 oz.)	ZTX-B02RC: Approx. 162 g (5.7 oz.) (including batteries) ZRX-HR70: Approx. 510 g (1 lb. 2.0 oz.)	ZTX-M01: 305 g (11 oz) (including batteries) ZRX-HR50: 510 g (1 lb 2 oz)
Supplied Accessories	ZTX-M02RC(1), ZRX-HR70(1), Mic holder (1), Antenna (2), AC adapter (1), Quick Start Guide (1), Before Use (1), CD-ROM (1)	ZTX-B02RC(1), ZRX-HR70(1), Uni-directional Lavalier Microphone (1), Uni-directional Headset microphone (1), Mic holder clip (1), Cord clip (1), Wind screen (1), Belt clip (1), Belt clip screw (1), Antenna (2), AC adapter (1), Quick Start Guide (1), Before Use (1), CD-ROM (1)	Microphone holder (1), Antenna (2), AC adaptor (1), Quick Start Guide (1), CD-ROM (1)	

*0dBµV= 1µV EMF, 0dBu=0.775Vrms, 0dBV=1V, 0dB SPL=2x10⁻⁵ Pa

Specifications

		DWZ-B30GB	DWZ-B50GB	DWZ-B50I
Transmitting Section	Transmitter Type	Bodypack		
	Carrier Frequencies	2,402.0 MHz to 2,478.5 MHz		
	RF Power Output	10 mW (e.i.r.p.)		
Receiving Section	Receiver Type	Compact (1 channel)	Rack-mount (Half / 1 channel)	
	Reception Type	Space diversity		
	Antenna Type	Internal monopole antenna	External whip antenna	
	Receiving Frequencies	2,402.0 MHz to 2,478.5 MHz		
	RF Sensitivity	30 dB V or less	24 dB V or less	
Audio Section	Capsule Type	-	Condenser	
	Directivity	-	Uni-directional	
	Maximum Input Level	MIC: -22 dBu / INST: +8 dBu (with 0 dB attenuator)		
	Audio Attenuator Adjustment Range	0 / 10 / 20 dB		
	Frequency Response	10 Hz to 22 kHz	Transmission: 10 Hz to 22 kHz/Gooseneck Microphone: 20 Hz to 22 kHz	
	Dynamic Range	MIC: 102 dB (A-weighted) / INST: 98 dB (A-weighted)		
	Audio Delay	Narrow band mode: Approx. 3 ms / Wide band mode: Approx. 5 ms (Transmitter + Receiver)		
	Distortion (T.H.D)	0.03% or less (-38 dBu, 1 kHz input)		
	Analog Output	XLR-3-32, balanced (x1) / Phone jack, unbalanced (x2)		
Other Equipment	Reference Output Level	-Balanced Output: -20 dBu -Main/Tuner Out: -28 dBu	-Balanced Output MIC: -58 dBu / LINE: -12 dBu -Unbalanced Output: -28 dBu	
	Encryption	-	-	-
	Display	-	LCD	
	USB Port(for firmware update)	TX x1 / RX x 1	TX x1 / RX x 1	TX x1 / RX x 1
General	Power Requirements	-----ZTX-B01: DC 3.0 V (two LR6 (size AA) alkaline dry cell batteries)-----		
		ZRX-C30: DC 12 V / 9 V / Square 9 V 6LR61battery	ZRX-HR50: DC 12 V	
	Battery Operating Time	ZTX-B01: Approx. 10 hours of continuous use (25 °C (77 °F) ambient temperature, Sony LR6 (sizeAA) alkaline dry cell batteries)	Approx. 10 hours of continuous use (25 °C (77 °F) ambient temperature, Sony LR6 (size AA) alkaline dry cell batteries)	
	Operating Temperature	0°C to 50°C (32°F to 122°F)		
	Storage/Transport Temperature	-20°C to +60°C (-4°F to +140°F)		
	Dimensions	ZTX-B01: 63 × 80 × 20 mm (2 1/2 × 3 1/4 × 13/16 inches) (W/H/D) (excluding the antenna)		
	Mass	ZTX-B01: 156 g (5.5 oz) (including batteries)		
		ZRX-C30: 205 g (7.2 oz) (including battery)	ZRX-HR50: 510 g (1 lb 2 oz)	
Supplied Accessories	Guitar cable (1), Belt clip (1), Belt clip screw (1), Cable clamp (1), AC adaptor (1), Quick Start Guide (1),CD-ROM (1)	Guitar cable (1), Belt clip (1), Belt clip screw (1),Antenna (2), AC adaptor (1),Quick Start Guide (1),CD-ROM (1)	Uni-directional Gooseneck Microphone (1), Wind screen (1), Belt clip (1), Belt clip screw (1), Antenna (2), AC adaptor (1), Quick Start Guide (1), CD-ROM (1)	

*0dBμV= 1μV EMF, 0dBu=0.775Vrms, 0dBV=1V, 0dB SPL=2x10⁻⁵ Pa

ECM

Delivering excellent sound
and noise handling
performance

Comprehensive choice of high sensitivity
shotgun Electret condenser-type microphones

Recording engineers the world over are immensely
protective of their own personal collection of microphones,
regarding them as an essential part of their sonic signature.

Building on decades of experience in audio acquisition,
Sony offers a comprehensive choice of wired shotgun
microphones that offers musicians, broadcasters and
producers of audio-visual presentations uncompromised
audio, as well as utterly dependable performance.

Shotgun microphone

When You Need Superior Quality and Excellent Versatility in the Most Demanding Sound Gathering Applications

Since Sony introduced the ECM-678 Electret Condenser Shotgun Microphone in 2003, the shotgun microphone family having already been well-accepted for field production and broadcast studio applications.

Sony's expertise and knowledge, accumulated over decades as a world-leading supplier of broadcast equipment, are consolidated in these compact, lightweight microphones.

Despite their slim body, Sony's shotgun microphones offer excellent sensitivity, low inherent noise, flat-and-wide frequency response, superb sound quality, and extreme durability.

These microphones are optimally designed for use with Sony's professional camcorders, which are globally playing active roles in video acquisition with their excellent video quality.

As well as operating with camcorders, Sony's shotgun microphones are also suitable in other sound-gathering configurations; they can be used, for example, as boom microphones.

The versatile shotgun microphone family from Sony provides the ideal choice for virtually all quality-conscious sound gathering applications requiring extremely smooth and natural sound reproduction.

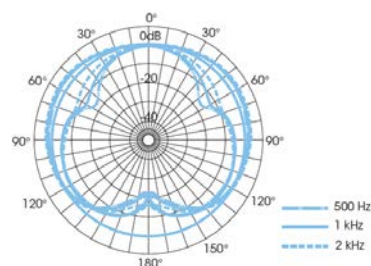


ECM-680S

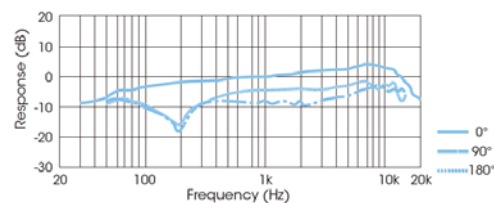
MS stereo shotgun Electret condenser microphone

- Superb sensitivity of -28dB*2 (stereo)/- 32dB*2 (monaural) and extremely low inherent noise of less than 20dB SPL (stereo/monaural).
- Flat-and-wide frequency response: 50Hz to 20kHz (stereo), 40Hz to 20kHz (monaural)
- Built-in low-cut filter
- Compact and lightweight design

ECM-680S Stereo

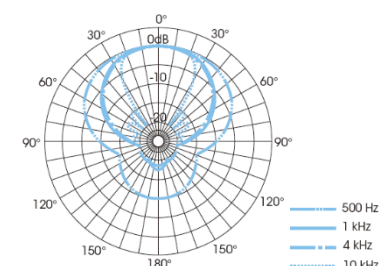


Directivity Characteristics

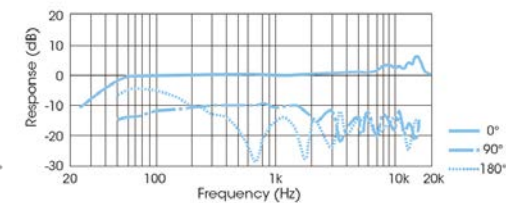


Frequency Response Characteristics

ECM-680S Monoral



Directivity Characteristics



Frequency Response Characteristics

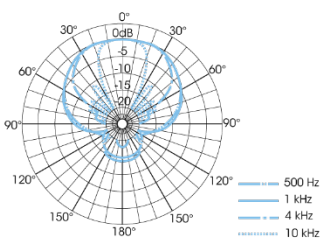
Shotgun microphone



ECM-678

Shotgun Electret condenser microphone

- Superb sensitivity of -28dB (0dB=1 V/Pa.) and an extremely low inherent noise of less than 16dB SPL
- Flat-and-wide frequency response (40Hz to 20kHz)
- Compact design
- High-durability and reliability
- Built-in low-cut filter

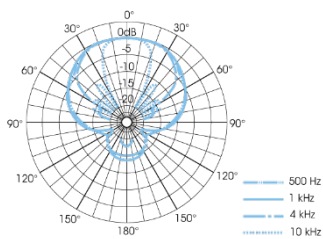


Directivity Characteristics

ECM-674

Affordable shotgun Electret condenser microphone

- Excellent sensitivity of -36dB (0dB=1 V/Pa.) and low inherent noise level of less than 17dB SPL
- Flat-and-wide frequency response (40Hz to 20kHz)
- Compact and lightweight design
- Two-way powering (48V Phantom Power and 1.5V AA battery)
- Built-in low-cut filter
- Built-in battery liquid leakage protection circuit

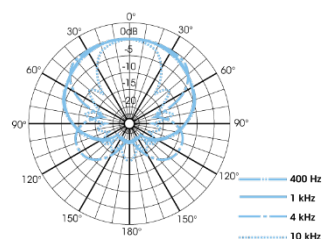


Directivity Characteristics

ECM-673

Shotgun Electret condenser microphone

- Excellent sensitivity of -36dB (0dB=1 V/Pa.) and a low inherent noise level of less than 17dB SPL
- Flat-and-wide frequency response (40Hz to 20kHz)
- Compact and lightweight design
- High-durability and reliability
- Built-in low-cut filter

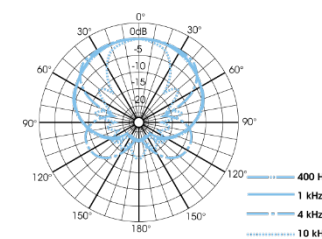


Directivity Characteristics

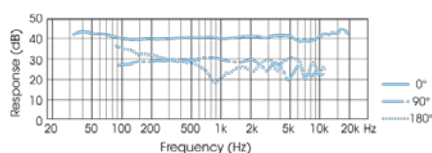
ECM-VG1

Shotgun Electret condenser microphone

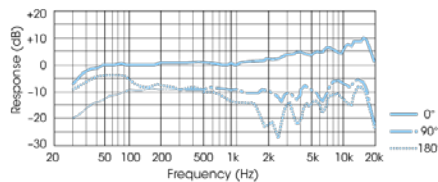
- Excellent sensitivity of -33 dB (0 dB=1 V/Pa), and a low inherent noise level of less than 18 dB SPL
- Flat-and-wide frequency response (40 Hz to 20 kHz), excellent sensitivity of -33 dB (0 dB=1 V/Pa), and a low inherent noise level of less than 18 dB SPL
- Compact and extremely lightweight design with metal body
- Built-in low-cut filter
- External DC (40 to 52 V) operation
- Newly Developed windscreen



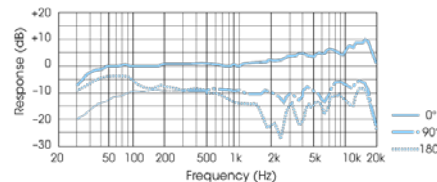
Directivity Characteristics



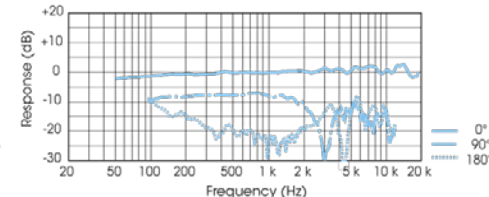
Frequency Response Characteristics



Frequency Response Characteristics



Frequency Response Characteristics



Frequency Response Characteristics

Shotgun microphone



ECM-MS2

Compact MS stereo back
Electret condenser shotgun microphone

- Compact lightweight design ideal for use with handheld camcorders
- Stereo and mono operation
- Professional quality sound reproduction
- Metal body reduces external noise
- External DC (40 to 52 V) operation
- Original windscreen protects from contact noise
- Cable tie for bundling and fastening the microphone cable



EMC-CG50BP

UHF ground plane antenna

- Light wight Shotgun Microphone with \varnothing 3.5 gold coating L type stereo mini plug for small camcorders or DSLR camera.
- Built-in Low-cut Filter
- Power Supplied by Camera or Alkaline AA Battery
- Original windscreen protect from contact noise



Accessories



EC-0.5X3F5M

XLR-3P - XLR-5P cable

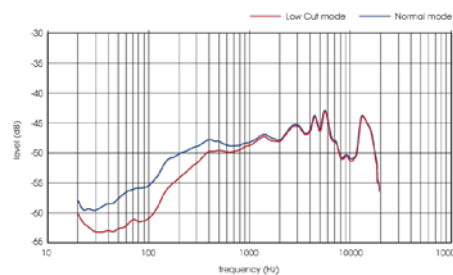
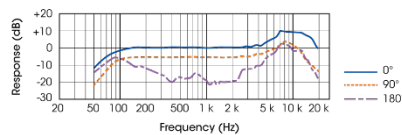
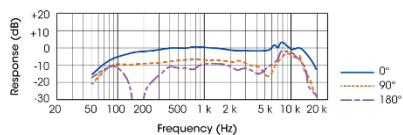
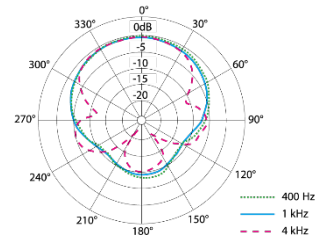
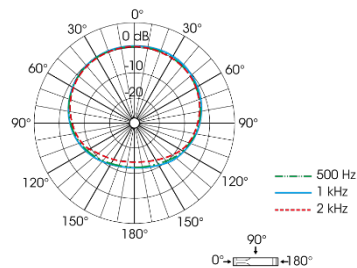
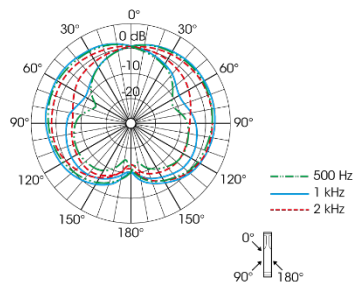


EC-0.5X5F3M

XLR-5P - XLR-3P (2) cable

ECM-MS2 Stereo

ECM-MS2 Monoral



Specifications

	ECM-680S		ECM-678	ECM-674	ECM-673
Mode	Stereo	Monaural	–	–	–
Capsule type	Electret condenser		Electret condenser	Electret condenser	Electret condenser
Stereo type	MS (Mid-Side) stereo microphone		–	–	–
Directivity	Uni-directional	Super-cardioid	Super-cardioid	Super-cardioid	Super-cardioid
Frequency response	50 Hz to 20 kHz	40 Hz to 20 kHz	40 Hz to 20 kHz	40 Hz to 20 kHz	40 Hz to 20 kHz
Sensitivity (at 1 kHz)	-28 dB ¹ ±3 dB	-32 dB ¹ ±3 dB	-28 dB ¹ ±3 dB	-36 dB ¹ ±3 dB	-36 dB ¹ ±3 dB
Output impedance (at 1 kHz)	100 Ω ±20%		200 Ω ±20%	220 Ω ±20%	220 Ω ±20%
Dynamic range	103 dB or more	104 dB or more	111 dB or more	Phantom: 107 dB or more, Battery: 98 dB or more	107 dB or more
Signal-to-noise ratio (IEC179A-weighted, 1 kHz, 1Pa)	73 dB or more	74 dB or more	78 dB or more	77 dB or more	77 dB or more
Inherent noise	21 dB SPL ² or less	20 dB SPL ² or less	16 dB SPL ² or less	17 dB SPL ² or less	17 dB SPL ² or less
Wind noise	55 dB SPL ² or less (with windscreen) 60 dB SPL ² (without windscreen)		60 dB SPL ² or less (without windscreen)	45 dB SPL ² or less (with windscreen), 50 dB SPL ² (without windscreen)	45 dB SPL ² or less (with windscreen), 50 dB SPL ² (without windscreen)
Induction noise from external magnetic field	0 dB SPL ² or less		0 dB SPL ² or less	0 dB SPL ² or less	0 dB SPL ² or less
Maximum input sound pressure level	124 dB SPL ²		127 dB SPL ²	Phantom: 124 dB SPL ² , Battery: 115 dB SPL ²	124 dB SPL ²
Power requirements	DC 40 to 52 V		DC 40 to 52 V	External: DC 40 to 52 V, Battery: 1.5 V	DC 40 to 52 V
Dimensions	ø20 x 250 mm (ø13/16 x 9 7/8 inches)		ø20 x 250 mm (ø13/16 x 9 7/8 inches)	ø20 x 268 mm (ø13/16 x 10 5/8 inches)	ø20 x 200 mm (ø13/16 x 7 7/8 inches)
Mass	Approx. 105 g (3.7 oz)		200 g (7 oz)	Approx. 185 g (6.5 oz) without battery Approx. 208 g (7.3 oz) with battery	Approx. 135 g (4.8 oz)
Supplied Accessories	Windscreen (x1), Microphone holder (x1), Microphone spacer (x2), Microphone cable, XLR-5P - XLR-5P (x1), Stand Adaptor (x2), Carrying case (x1), Operating instructions (x1)		Windscreen (x1), Microphone holder (x1), Microphone spacer (x2), Microphone cable, XLR-3P - XLR-3P (x1), Stand Adaptor (x2), Carrying case (x1), Operating instructions (x1)	Windscreen (x1), Microphone holder (x1), Microphone spacer (x2), Microphone cable, XLR-3P - XLR-3P (x1), Stand Adaptor (x2), Operating instructions (x1)	Windscreen (x1), Microphone holder (x1), Microphone spacer (x2), Microphone cable, XLR-3P - XLR-3P (x1), Stand Adaptor (x2), Operating instructions (x1)

Specifications

	ECM-VG1	ECM-MS2	ECM-CG50BP
Mode	–	–	Monaural
Capsule type	Mono Electret Condenser	–	Electret condenser
Stereo type	–	MS (Mid-Side) stereo microphone	–
Directivity	Uni-directional (super-cardioid)	Uni-directional	Super-cardioid
Frequency response	40 Hz to 20 kHz	Stereo: 80 Hz to 20,000 Hz Monaural: 70 Hz to 20,000 Hz	40 Hz to 20 kHz
Sensitivity (at 1 kHz)	-33 dB ^{*1} ±3 dB	Stereo: -32 dB ^{*1} 1) Monaural: -36 dB 1)	-48 dB/Pa±4 dB *Specially tuned to be used with the camcorders AGC function
Output impedance (at 1 kHz)	60Ω±20%, Balanced	60Ω±20%, Balanced	–
Output connector	-	Cannon XLR-3-12C type x2	ø 3.5 gold coating L type stereo mini plug cable length Approx. 35 cm (13 7/8 in.)
Dynamic range	107 dB or more	100 dB or more	80 dB or more
Signal-to-noise ratio (IEC179A-weighted, 1 kHz, 1Pa)	76 dB or more	69 dB or more	76 dB or more
Inherent noise	18 dB SPL ^{*2} or less	25 dB SPL ^{*2} or less 2)	18 dB SPL ^{*2} (Average)
Wind noise	45 dB SPL ^{*2} or less (with windscreen)	45 dB SPL ^{*2} or less (with wind screen) 65 dB SPL or less (without wind screen)	–
Induction noise from external magnetic field	0 dB SPL ^{*2}	0 dB SPL ^{*2} /1 x 10 ⁻⁷ T (1 mG) or less	–
Maximum input sound pressure level	125 dB SPL ^{*2}	125 dB SPL ^{*2} or more (input level for 1% waveform distortion at 1 kHz, converted into equivalent input sound pressure level) 2)	100 dB SPL ^{*2} or more
Power requirements	External, DC 40 V to 52 V	External power supply 40 V to 52 V DC (IEC 61938 P48)	Approx. 900 hours with one alkaline AA battery or plug-in phantom power from audio jack of compatible camcorder
Dimensions	ø20 x 210 mm (ø13/16 x 8 3/8 inches)	ø20 x 137 mm (ø20 31/32 x 5 1/2 inches)	Approx. ø 21 mm × 261 mm (Ø 27/32 in × 10 3/8 in.) (excluding cord)
Mass	Approx. 66g (2.3 oz.)	Approx. 160g (5.6 oz.)	Approx. 85 g (3 oz.) (excluding battery)
Supplied Accessories	Windscreen (x1), Mic holder (1), Mic spacer (1), Stand adaptor (2), Operating instructions (1)	Wind screen (1), Cable tie (1), Operating instructions (1), Warranty booklet (1)	Shotgun microphone (1), Wind screen (1), Microphone holder (1), Microphone spacer(1), Set of printed documentation

*1 0 dB=1 V/Pa, 1 kHz

*2 0dB SPL=2×10⁻⁵ P

Lavalier microphone

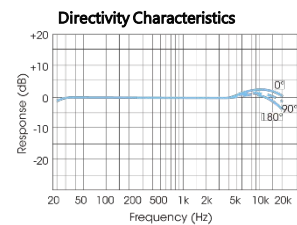
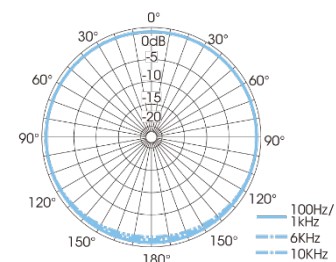
ECM-88 series



B **BC** **BMP** **BPT** **FPT**

FEATURES

- Ultra-miniature, omni-directional electret condenser microphone.
- Designed for quality-critical applications in broadcasting, theater, and field productions.
- Choice of model variations to suit specific user requirements.
- Flat-and-wide frequency response provides natural sound reproduction.
- Water-resistant design maintains sound clarity in almost any application or environment.
- Dual-diaphragm mechanism contributes to high sensitivity, wide dynamic range, and low noise.
- Low cable-noise characteristics.
- Miniature design makes it easy to conceal in a stage costume.



Frequency Response Characteristics

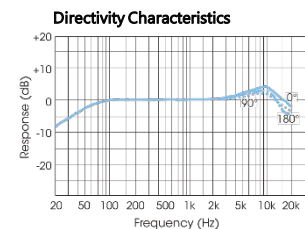
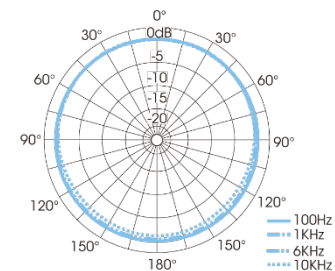
ECM-77 series /9X



B **BC** **BMP** **BPT** **FPT**

FEATURES

- Miniature, omni-directional electret condenser microphone.
- Worldwide-acclaim for performance and reliability in studio, ENG, and EFP applications.
- Choice of model variations to suit specific user requirements.
- Wide frequency response, high sensitivity, and low-noise characteristics.
- Miniature design makes it easy to conceal in a costume.
- Ideal for use with DWT-B01.



Frequency Response Characteristics

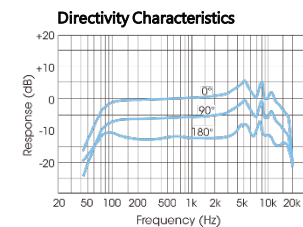
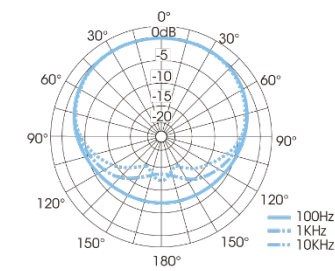
ECM-66 series /9X



B **BC** **BMP** **BPT** **FPT**

FEATURES

- Uni-directional, electret condenser microphone.
- Resistant to howling by rejecting indirect sound.
- Ideal for institutional use and sound-contracting applications such as speeches, lectures, and conferences.
- Designed for a wide range of applications from voice to instrumental recording.
- Wide dynamic range (101 dB), and high maximum input-sound-pressure level (130 dB SPL).
- Low inherent-noise characteristics.



Frequency Response Characteristics

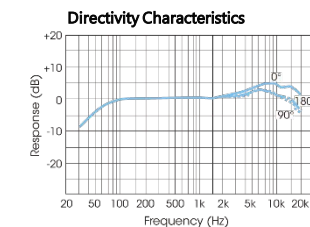
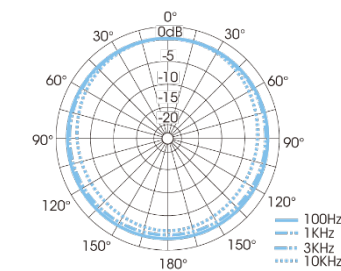
ECM-55 series /9X



B **BC** **BMP** **BPT** **FPT**

FEATURES

- Omni-directional, electret condenser microphone.
- High signal-to-noise ratio and low inherent-noise characteristics.
- Large microphone head of 10.6 mm (7/16 inch) diameter offers rich sound reproduction.
- Successor to the ECM-50 microphone, the world's first electret condenser lavalier microphone



Frequency Response Characteristics

Lavalier microphone

ECM-44 series /9X

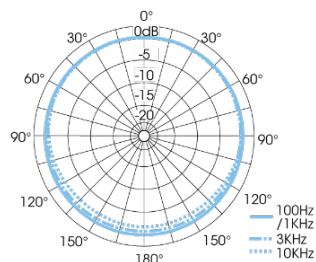


B BC **BMP** BPT FPT

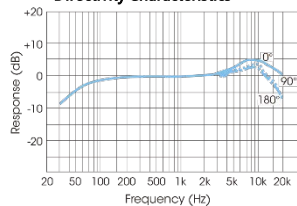
FEATURES

- Omni-directional, electret condenser microphone.
- Choice of model variations to suit specific user requirements.
- Cost-effective miniature microphone provides superb sound quality.

ECM-44B does not support external DC operation.



Directivity Characteristics



Frequency Response Characteristics

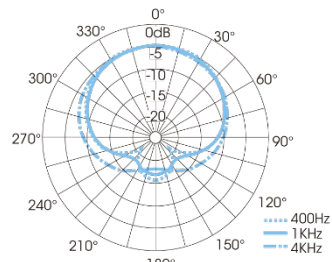
ECM-166 series



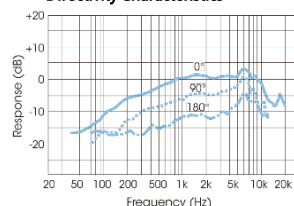
B **BC** BMP BPT FPT

FEATURES

- Uni-directional, electret condenser microphone.
- Resistant to howling by rejecting indirect sound.
- Reasonably priced lavalier microphone, ideal for institutional use and sound-contracting applications such as speeches, lectures, and conferences.



Directivity Characteristics



Frequency Response Characteristics

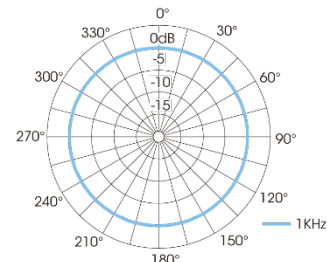
ECM-V1BMP



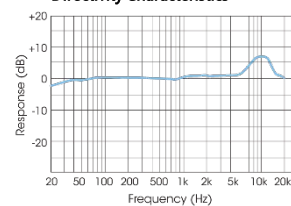
B BC **BMP** BPT FPT

FEATURES

- The lavalier microphone supplied with the UWP package is available as an individual microphone.
- Omni-directional, electret condenser microphone.
- Reasonably priced lavalier microphone, ideal for ENG and EFP uses.



Directivity Characteristics



Frequency Response Characteristics

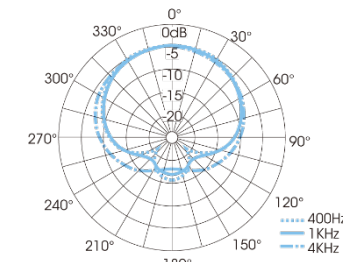
ECM-X7BMP



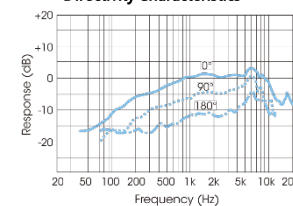
B BC **BMP** BPT FPT

FEATURES

- The lavalier microphone supplied with the UWP package is available as an individual microphone.
- Uni-directional, electret condenser microphone.
- Resistant to howling by rejecting indirect sound.
- Reasonably priced lavalier microphone, ideal for institutional use and sound-contracting applications such as speeches, lectures, and conferences.



Directivity Characteristics



Frequency Response Characteristics

Lavalier / Headset microphone

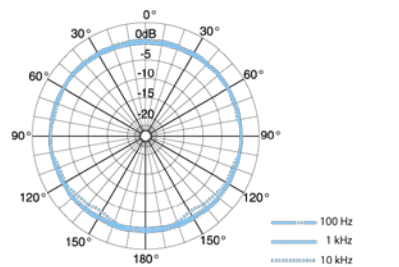
ECM-322 series



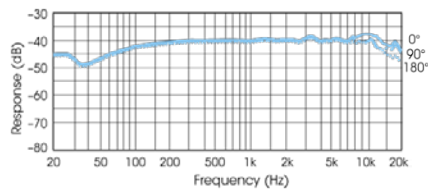
B BC **BMP** BPT FPT

FEATURES

- Omni-directional, electret condenser microphone.
- Headset microphone, ideal for a variety of multimedia presentation applications ranging from seminars and conferences to lectures and workshops.
- Ear-clip-style design, wearable on either the left or right ear.
- The position of the microphone is adjustable.
- With the adjustable soft-texture ear hook and detachable headband, the headset microphone is comfortable to wear and fits stably on the ear, even during lengthy presentations.



Directivity Characteristics



Frequency Response Characteristics

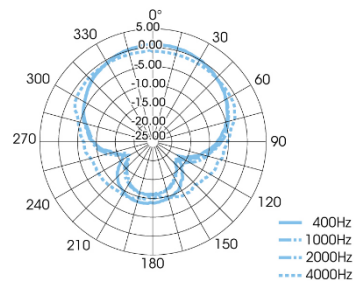
ECM-LZ1UBMP



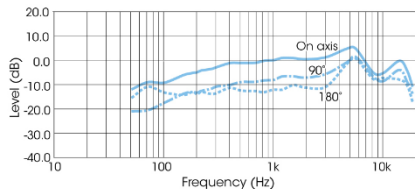
B BC **BMP** BPT FPT

FEATURES

- The lavalier microphone supplied with the UWP package is available as an individual microphone.
- Omni-directional, electret condenser microphone.
- Reasonably priced lavalier microphone, ideal for ENG and EFP uses.



Directivity Characteristics



Frequency Response Characteristics

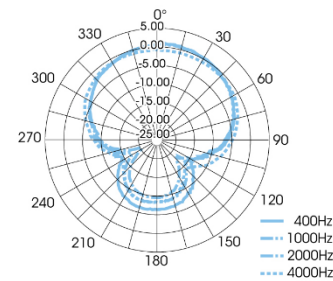
ECM-HZ1UMB



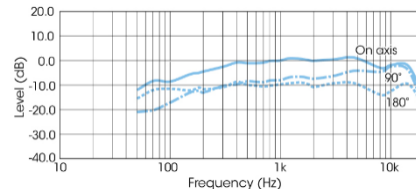
B BC **BMP** BPT FPT

FEATURES

- The lavalier microphone supplied with the UWP package is available as an individual microphone.
- Omni-directional, electret condenser microphone.
- Reasonably priced lavalier microphone, ideal for ENG and EFP uses.



Directivity Characteristics



Frequency Response Characteristics

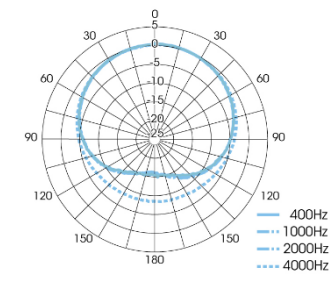
ECM-GZ1IBMP



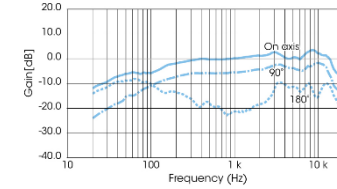
B BC **BMP** BPT FPT

FEATURES

- The lavalier microphone supplied with the UWP package is available as an individual microphone.
- Omni-directional, electret condenser microphone.
- Reasonably priced lavalier microphone, ideal for ENG and EFP uses.



Directivity Characteristics



Frequency Response Characteristics



		ECM-88 Series	ECM-77 Series	ECM-66 Series	ECM-55 Series	ECM-44 Series	ECM-166 Series	
Model Variations	XLR type (Supplied with a battery unit and XLR-3-12C type connector.)	ECM-88B with supplied DC-78	ECM-77B	ECM-66B	ECM-55B	ECM-44B	—	
	SMC type (Supplied with a Sony 4-pin <SMC9-4P> connector.)	ECM-88BC	ECM-77BC	ECM-66BC	—	ECM-44BC	ECM-166BC	
	BMP type (Supplied with a 3.5 mm diameter, 3-pole mini plug.)	—	ECM-77BMP	—	—	ECM-44BMP	ECM-166BMP	
	Pigtail type (Supplied without a connector <pigtail>.)	ECM-88BPT	ECM-77BPT	—	—	—	ECM-44BPT	—
		ECM-88FPT						
Capsule type	Electret Condenser	Electret Condenser	Electret Condenser	Electret Condenser	Electret Condenser	Electret Condenser	Electret Condenser	
Frequency response	20 Hz to 20 kHz	40 Hz to 20 kHz	70 Hz to 14 kHz	30 Hz to 18 kHz	40 Hz to 15 kHz	100 Hz to 10 kHz	100 Hz to 10 kHz	
Directivity	Omni-directional	Omni-directional	Uni-directional	Omni-directional	Omni-directional	Uni-directional	Uni-directional	
Sensitivity (0 dB=1 V/Pa, at 1 kHz)	XLR type	-52.0 dB ± 2 dB ¹	-52.0 dB ± 2 dB	-50.0 dB ± 2 dB	-52.0 dB ± 2 dB	-53.0 dB ± 3 dB	—	
	SMC/BMP/Pigtail type	-39.0 dB ± 2 dB	-39.0 dB ± 2 dB	-36.5 dB ± 2 dB	—	-40.0 dB ± 3 dB	-45.0 dB ± 3 dB	
Output impedance at 1 kHz	XLR type	100 Ω ± 20% (balanced) ¹	150 Ω ± 20% (balanced)	100 Ω ± 20% (balanced)	100 Ω ± 20% (balanced)	250 Ω ± 20% (balanced)	—	
	SMC/BMP/Pigtail type	2.5 kΩ ± 30% (unbalanced)	2.5 kΩ ± 30% (unbalanced)	2.5 kΩ ± 30% (unbalanced)	—	2.5 kΩ ± 30% (unbalanced)	2.5 kΩ ± 30% (unbalanced)	
Dynamic Range	99 dB or more	90 dB or more	101 dB or more	98 dB or more	90 dB or more	96 dB or more	96 dB or more	
Signal-to-noise ratio (A-weighted, 1 kHz, 1 Pa.)	68 dB or more	64 dB or more	65 dB or more	66 dB or more	62 dB or more	60 dB or more	60 dB or more	
Inherent noise (0dB SPL = 2E-5 Pa.)	26 dB SPL or less	30 dB SPL or less	29 dB SPL or less	28 dB SPL or less	32 dB SPL or less	34 dB SPL or less	34 dB SPL or less	
Wind noise (with windscreen, at 2m/s) (0 dB SPL = 2E-5 Pa.)	45 dB SPL or less	40 dB SPL or less	50 dB SPL or less	40 dB SPL or less	40 dB SPL or less	—	—	
Induction noise from external magnetic field (dB SPL/1E-7 T, 0 dB SPL = 2E-5 Pa.)	5 dB SPL or less	5 dB SPL or less	5 dB SPL or less	5 dB SPL or less	5 dB SPL or less	—	—	
Maximum input sound pressure level (0 dB SPL = 2E-5 Pa.)	125 dB SPL	120 dB SPL	130 dB SPL	126 dB SPL	122 dB SPL	130 dB SPL	130 dB SPL	
Power supply (XLR type only)	Battery	IECR6 or LR6 ¹	IECR6 or LR6	IECR6 or LR6	IECR6 or LR6	IECR6 or LR6	—	
	Battery life (LR6)	Approx. 6000 h ¹	Approx. 6000 h	Approx. 400 h	Approx. 6000 h	Approx. 6000 h	—	
	External power	DC 12 to 48 V ¹	DC 12 to 48 V	DC 24 to 48 V	DC 12 to 48 V	—	—	
Power requirements	XLR type	DC 1.5 V ¹	DC 1.5 V	DC 1.5 V	DC 1.5 V	DC 1.5 V	—	
	SMC/BMP/Pigtail type	DC 1.1 to 10.0 V	DC 1.1 to 10.0 V	DC 1.1 to 10.0 V	—	DC 1.1 to 10.0 V	DC 1.1 to 10.0 V	
Current drain	XLR type (internal battery)	0.3 mA or less ¹	0.3 mA or less	3.5 mA or less	0.3 mA or less	0.3 mA or less	—	
	XLR type (external battery)	2 mA or less ¹	2 mA or less	2 mA or less	2 mA or less	—	—	
Cable length	SMC/BMP/Pigtail type	0.4 mA or less	0.4 mA or less	0.4 mA or less	—	0.4 mA or less	0.4 mA or less	
	XLR type	2.5 m (8.2 feet)	3.0 m (9.8 feet)	3.0 m (9.8 feet)	3.0 m (9.8 feet)	3.0 m (9.8 feet)	—	
Dimensions	SMC/BMP type	1.2 m (3.9 feet)	1.2 m (3.9 feet)	1.2 m (3.9 feet)	—	1.2 m (3.9 feet)	1.2 m (3.9 feet)	
	Pigtail type	2.5 m (8.2 feet)	3.0 m (9.8 feet)	—	—	3.0 m (9.8 feet)	—	
Microphone head	Microphone head	3.5 x 3.5 x 16.8 mm (5/32 x 5/32 x 11/16 inch) Clip attachment area:3.9 mm (5/32 inch) diameter	5.6 diameter x 12.5 mm (1/4 diameter x 1/2 inch)	10.6 diameter x 24.2 mm (7/16 diameter x 31/32 inch)	10.6 diameter x 21 mm (7/16 diameter x 27/32 inch)	8.5 diameter x 14.5 mm (11/32 diameter x 19/32 inch)	12.5 diameter x 23.5 mm (1/2 diameter x 15/16 inch)	
	Power unit (XLR type only)	20.0 diameter x 144 mm (13/16 diameter x 5 3/4 inches)	20.0 diameter x 133 mm (13/16 diameter x 5 1/4 inches)	20.0 diameter x 163 mm (13/16 diameter x 6 1/2 inches)	20.0 diameter x 133 mm (13/16 diameter x 5 1/4 inches)	20.0 diameter x 126 mm (13/16 diameter x 5 inches)	—	
Mass	Microphone head only	0.6 g (0.02 oz)	1.5 g (0.05 oz)	7 g (0.25 oz)	6.5 g (0.23 oz)	2 g (0.07 oz)	3.5 g (0.12 oz)	
	Total	162 g (5.7 oz)	122 g (4.3 oz)	167 g (5.9 oz)	127 g (4.5 oz)	121 g (4.3 oz)	—	
	XLR type	22 g (0.7 oz)	23 g (0.8 oz)	30 g (1.1 oz)	—	24 g (0.8 oz)	25 g (1.0 oz)	
	SMC type	—	17 g (0.6 oz)	—	—	18 g (0.6 oz)	19 g (0.7 oz)	
	BMP type	20 g (0.7 oz)	26 g (0.9 oz)	—	—	29 g (1.0 oz)	—	
Pigtail type	—	—	—	—	—	—		
Supplied accessories	Single/Horizontal type tie clip (x1) ² , Single/Vertical type tie clip (x1) ² , Double/Horizontal type tie clip (x1) ³ , Urethane type windscreen (x1) ² , Microphone case (x1) ³ , Operating instructions (x1), Operating instructions (x1), Ferrite clamp (x1)	Single/Horizontal type tie clip (x1) ⁴ , Single/Vertical type tie clip (x1) ⁴ , Urethane type tie clip (x1) ⁴ , Double/Horizontal type tie clip (x1), Metal-mesh type windscreen (x1), Microphone case (x1), Operating instructions (x1)	Single/Horizontal type tie clip (x1), Single/Vertical type tie clip (x1), Urethane type tie clip (x1), Urethane type windscreen (x1), Microphone case (x1), Operating instructions (x1)	Single/Horizontal type tie clip (x1), Single/Vertical type tie clip (x1), Urethane type tie clip (x1), Double/Horizontal type tie clip (x1), Metal-mesh type windscreen (x1), Microphone case (x1), Operating instructions (x1)	Single/Horizontal type tie clip (x1), Single/Vertical type tie clip (x1), Urethane type tie clip (x1), Double/Horizontal type tie clip (x1), Metal-mesh type windscreen (x1), Microphone case (x1), Operating instructions (x1)	Single/Horizontal type tie clip (x1), Urethane type windscreen (x1), Operating instructions (x1) ⁶ , Operating instructions (x1)	Single/Horizontal type tie clip (x1), Urethane type windscreen (x1), Operating instructions (x1)	

*1 ECM-88B used with the supplied DC-78 battery unit.

*2 ECM-88FPT is not supplied with mic accessories.

*3 Double / Horizontal type tie clip and microphone case are supplied with ECM-88B only.

*4 Single / Vertical type tie clip, Double / Horizontal type tie clip, and microphone case are supplied with ECM-77B only.

*5 Single / Vertical type tie clip and microphone case are supplied with ECM-66B only.

*6 The microphone case is supplied with ECM-44B only.

Specifications

		ECM-V1 Series ^{*1}	ECM-X7 Series ^{*2}	ECM-322 Series	ECM-LZ1UBMP	ECM-HZ1UBMP	ECM-GZ1UBMP
Model Variations	XLR type (Supplied with a battery unit and XLR-3-12C type connector.)	—	—	—	—	—	—
	SMC type (Supplied with a Sony 4-pin <SMC9-4P> connector.)	—	—	ECM-322BC	—	—	—
	BMP type (Supplied with a 3.5 mm diameter, 3-pole mini plug.)	ECM-V1BMP	ECM-X7BMP	ECM-322BMP	ECM-LZ1UBMP	ECM-HZ1UBMP	ECM-GZ1UBMP
	Pigtail type (Supplied without a connector <pigtail>.)	—	—	—	—	—	—
Capsule type		Electret Condenser	Electret Condenser	Electret Condenser	Electret Condenser	Electret Condenser	Electret Condenser
Frequency response		40 Hz to 20 kHz	100 Hz to 15 kHz	50 Hz to 18 kHz	60 Hz to 18 kHz	60 Hz to 18 kHz	20 Hz to 22 kHz
Directivity		Uni-directional	Uni-directional	Omni-directional	Uni-directional	Uni-directional	Uni-directional
Sensitivity (0 dB=1 V/Pa, at 1 kHz)	XLR type	—	—	—	—	—	—
	SMC/BMP/Pigtail type	-43.0 ± 3 dB	-44.0 ± 3 dB	-42 dB ± 3 dB	-31.0 dB ± 3.0 dB	-31.0 dB ± 3.0 dB	-55.0 dB ± 3.0 dB
Output impedance		—	—	—	—	—	—
at 1 kHz	XLR type	—	—	—	—	—	—
	SMC/BMP/Pigtail type	1.2 kΩ ± 30% (unbalanced)	1.2 kΩ ± 30% (unbalanced)	1.4 kΩ ± 30% (unbalanced)	1.4 kΩ ± 30% (unbalanced)	1.4 kΩ ± 30% (unbalanced)	600Ω±30%
Dynamic Range		86 dB or more	88 dB or more	81 dB or more	94dB or more	94dB or more	120dB or more
Signal-to-noise ratio (A-weighted, 1 kHz, 1 Pa.)		60 dB or more	62 dB or more	60 dB or more	68dB or more	68dB or more	64dB or more
Inherent noise (0dB SPL = 2E-5 Pa.)		34 dB SPL or less	32 dB SPL or less	34 dB SPL or less	26dB SPL or less	28dB SPL or less	30dB SPL or less
Wind noise (with windscreens, at 2m/s)(0 dB SPL = 2E-5 Pa.)		—	—	55 dB SPL or less (without windscreens)	—	—	—
Induction noise from external magnetic field (dB SPL/1E-7 T, 0 dB SPL = 2E-5 Pa.)		—	—	—	—	—	—
Maximum input sound pressure level (0 dB SPL = 2E-5 Pa.)		120 dB SPL	120 dB SPL	115 dB SPL	120dB SPL	120dB SPL	150dB SPL
Power supply (XLR type only)	Battery	—	—	—	—	—	—
	Battery life (LR6)	—	—	—	—	—	—
	External power	—	—	—	—	—	—
Power requirements	XLR type	—	—	—	—	—	—
	SMC/BMP/Pigtail type	DC 5 V	DC 5 V	DC 1.1 to 10.0 V	DC 1.5 to 10 V	DC 1.5 to 10 V	DC 3 to 10 V
Current drain	XLR type (internal battery)	—	—	—	—	—	—
	XLR type (external battery)	—	—	—	—	—	—
	SMC/BMP/Pigtail type	0.2 mA or less	0.2 mA or less	1.3 mA or less	0.6mA or less	0.6mA or less	0.6mA or less
Cable length	XLR type	—	—	—	—	—	—
	SMC/BMP type	1.2 m (3.9 feet)	1.2 m (3.9 feet)	1.2 m (3.9 feet)	1.2 m (3.9 feet)	1.2 m (3.9 feet)	1.8 m (5.9 feet)
	Pigtail type	—	—	—	—	—	—
Dimensions	Microphone head	6.8 diameter x 19.5 mm	11.5 diameter x 20.5 mm	8.4 diameter (capsule case) x 168 mm	15 diameter (capsule case) x 25 mm	15 diameter (capsule case) x 170 mm	13 diameter (capsule case) x 29 mm
		(9/32 diameter x 25/32 inch)	(15/32 diameter x 13/16 inch)	(11/32 diameter x 6 5/6 inch)	(19/32 diameter x 1 inch)	(19/32 diameter x 6 3/4 inch)	(17/32 diameter x 1 3/16 inch)
Mass	Power unit (XLR type only)	—	—	—	—	—	—
	Microphone head only	—	—	—	—	—	—
	Total XLR type	—	—	—	—	—	—
	SMC type	—	—	10 g (0.4 oz) without connector	—	—	—
	BMP type	16.2 g (0.57 oz)	18.0 g (0.63 oz)	10 g (0.4 oz) without connector	5 g (0.18 oz) without connector	10 g (0.35 oz) without connector	25 g (0.9 oz) without connector
Pigtail type	—	—	—	—	—	—	
Supplied accessories		Single/Horizontal type tie clip (x1), Urethane type windscreens (x1), Operating instructions (x1)	Single/Horizontal type tie clip (x1), Urethane type windscreens (x1), Operating instructions (x1)	Headband (x1), clip (x1), Carrying case (x1), Operating instructions (x1)	Mic holder clip (x1), Windscreens (x1), Operating instructions (x1)	Headband (x1), Cord clip (x1), Windscreens (x1), Operating instructions (x1)	Windscreens (x1), Carrying pouch (x1), Operating instructions (x1)

*1 The characteristics are measured as UTX-B2V.

*2 The characteristics are measured as UTX-B2X.



F Series

Dynamic Microphones

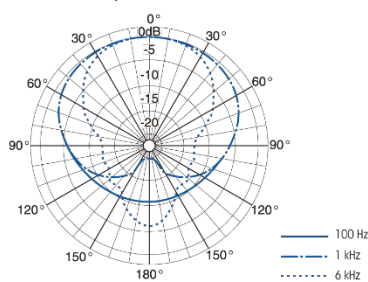
Dynamic microphones



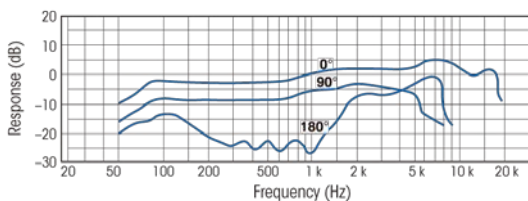
F-780 Uni-directional Dynamic Microphone

- For critical vocal recording, professional sound reinforcement and broadcast production
- Rugged capsule in a resilient body structure
- Special AlNiCo magnet provides excellent sensitivity, powerful and accurate sound reproduction.
- Edgewise winding voice coil with lightweight CCAW (Copper Clad Aluminum Wire) provides powerful, crisp, clean sound in the mid and high frequency range.

Directivity Characteristics



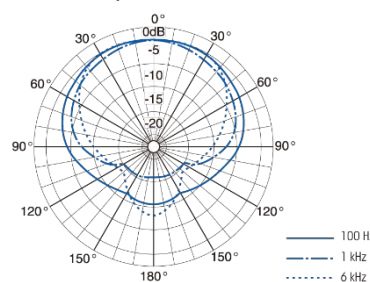
Frequency Response Characteristics



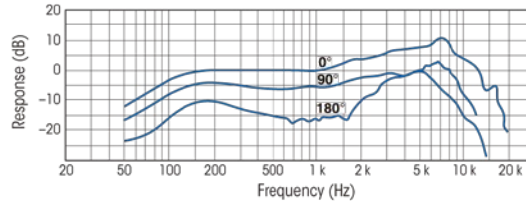
F-720 Uni-directional Dynamic Microphone

- For general presentation and speech use in schools, halls, churches and other industrial applications
- Virtually impervious to handling noise and vibration because of efficient, one-piece capsule shock mount
- Convenient TALK switch to turn the microphone on and off

Directivity Characteristics



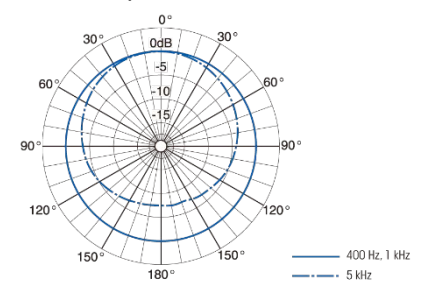
Frequency Response Characteristics



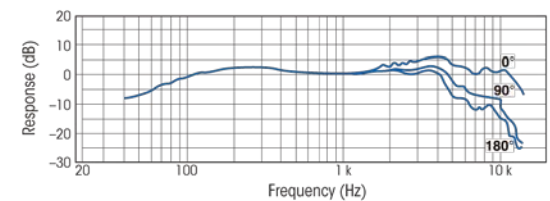
F-115B Omni-directional Dynamic Microphone

- Ideal for sound pick-up, especially under adverse weather conditions such as rain or heavy wind thanks to its water-shedding, double-layered windscreen
- Newly developed omni-directional microphone capsule for clear sound pick-up from any direction
- Metal body offers a high level of durability to withstand severe conditions encountered in demanding sound pick-up environments, and a special rubber at the core of the microphone reduces shocks and vibrations
- The directly connected microphone cable is water-resistant-limiting deterioration of internal parts
- Ideal for security and observation applications in various outdoor environments

Directivity Characteristics



Frequency Response Characteristics

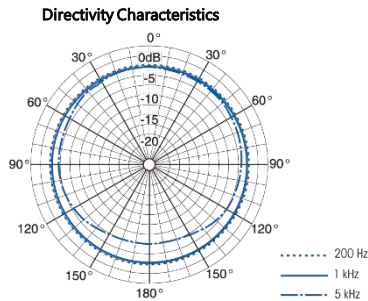


Dynamic microphones

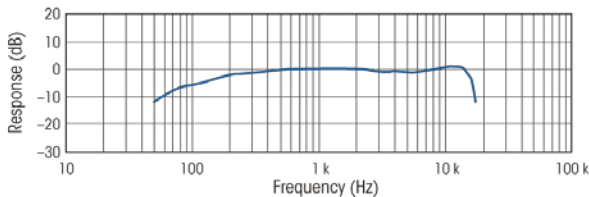


F-112 Omni-directional Dynamic Microphone

- Ideal for field production and news gathering application, especially for interviews
- Newly-developed omni-directional microphone capsule for clear voice pick-up from any directions
- Metal body offers a high level of durability to withstand severe conditions encountered in demanding sound pick-up environments.
- Robust brass connector for repeating cable connections
- Optimized balance when combined with the wireless plug-on transmitter included in the Sony UWP-V6 package (UTX-P1), WRT-8P, and DWT-P01



Frequency Response Characteristics



Specifications

	F-780	F-720	F-115B	F-112
Capsule type	Dynamic			
Frequency response	50 Hz to 18 kHz	50 Hz to 18 kHz	40 Hz to 12 kHz	60 Hz to 18 kHz
Directivity	Uni-directional		Omni-directional	
Sensitivity (0 dB=1 V/Pa at1 kHz)	-53 dB ±3 dB	-57 dB ±3 dB	-54 dB ±2 dB	-52 dB ±3 dB
Output impedance	400 Ω ±20%	500 Ω ±20%	400 Ω ±20%	
Induction noise from an external magnetic field	Less than 5 dB SPL/1 x 10 ⁻⁷ T (1 mG)	Less than 10 dB SPL/1 x 10 ⁻⁷ T (1 mG)	Less than 5 dB SPL/1 x 10 ⁻⁷ T (1 mG)	
Wind noise	Less than 50 dB SPL	Less than 55 dB SPL	Less than 40 dB SPL	Less than 40 dB SPL
Connector	XLR-3-12C type			
Dimensions	ø51 x 165 mm (ø2 1/8 x 6 1/2 inches)	ø37.6 x 160 mm (ø1 1/2 x 6 3/8 inches)	ø62 x 203 mm (ø2 1/2 x 8 inches)	ø41.4 x 220 mm (ø1 11/16 x 8 3/4 inches)
Mass	290 g (10.2 oz)	260 g (9.2 oz)	330 g (11.6 oz)	215 g (7.6 oz)
Supplied accessories	Microphone holder (PF 1/2) (x1), stand adaptor (PF 1/2 to NS 5/8, PF 1/2 to W 3/8) (x1 each), Operating instructions (x1)		Operating instructions (x1)	

*1 Pa=1x10⁻⁵ bar
*0 dB SPL=2x10⁻⁵ Pa



Mixer
Recorder
Headphones

Mixer

SRP-X700P Digital Powered Mixer



SRP-X700P with two URX-M2 tuner modules installed

- 6 x 1-AV switcher contains two RGB/component video inputs (with 5.1 surround sound), one RGB input (with stereo audio), and three composite/S-video inputs (with stereo audio)
- Integrated high-quality six-input mixer comprised of four microphone, two microphone/line, and two line inputs
- Mounting slots built in for two URX-M2 or WRU-806A/806B diversity receiver modules
- Audio-signal processing includes digital equalizer and dynamics processing for each microphone channel, plus on-board digital feedback reducer
- Built-in 200 W + 200 W (4 Ω), 150 W + 150 W (8 Ω), max. 150 W (70 V line) digital power amplifier



SRP-X500P Digital Powered Mixer



SRP-X500P with two URX-M2 tuner modules installed

- 5 x 1-AV switcher contains two RGB/component video inputs and three composite video inputs (each with stereo audio)
- Integrated high-quality audio mixer with four microphone inputs and one stereo line input
- Mounting slots built in for two URX-M2 or WRU-806A/806B diversity receiver modules
- Audio-signal processing includes digital equalizer and dynamics processing for each microphone channel, plus on-board digital feedback reducer
- Built-in four-channel digital power amplifier



SRP-X100 Rack Mount Audio Mixer



- 19-inch rack-mountable design
- Two microphone inputs (channel 1 to 2)
- Four mono inputs (channels 3 to 6, MIC/LINE switchable)
- Three stereo line inputs (channel 7 to 9)
- Master L and R outputs, switchable to mono outputs
- L/R Rec output carries all inputs (except channel 9 input to avoid feedback)
- Two mono sub outputs



Specifications

	SRP-X500P	SRP-X700P	SRP-X100P
Receiving channels	Two channels when accommodating two URX-M2 tuner modules included in the UWP-X7/X8 package		—
Receiving frequencies	566 MHz to 862 MHz	566 MHz to 862 MHz	—
Power requirements	AC 120/230 V, 50/60 Hz (CED/U2)	AC 120 V, 60 Hz (for U.S.A and Canada) AC 220 V, 50/60 Hz (for China) AC 230 V, 50/60 Hz (for other countries)	AC 120/230 V, 50/60 Hz (CED/U2)
Power consumption	150 W	120 W	19 W
Dimensions (W x H x D)	482 x 132 x 350 mm (19 x 5 1/4 x 13 7/8 inches)	482 x 132 x 357 mm (19 x 5 1/4 x 14 inches)	482 x 44 x 175 mm (19 x 1 3/4 x 7 inches)
Mass	Approx. 13 kg (28 lb 11 oz)	Approx. 12 kg (26 lb 3 oz)	Approx. 2.6 kg (5 lb 12 oz)

Mixer



DMX-P01 Digital Portable Mixer

- Portable, digital field-mixer designed for ENG/EFP application
- 24-bit A/D and D/A converters and internal 32-bit DSP for excellent sound quality
- 4 microphone/line inputs with +48 V mic power (on/off)
- 2 channels of balanced analog output and AES/EBU digital output (stereo)
- Digital cascade input with phono connector
- Coaxial output connector for mix-bus output or S/PDIF digital output
- Selectable sampling rate: 48 kHz or 96 kHz
- Full control of every parameter from the front panel
- Digital limiters on both inputs and outputs, and digital compressors on outputs
- A scene memory recall feature to instantly recall
- A power-on memory function recalls parameters in three different ways
- Easy-to-read backlit LCD panel displays output levels and setup menus
- Camera-audio return-level check via 12-pin connector
- Panel lock and parameter lock function
- Operates on eight AA-size alkaline (LR6) batteries or external DC 10 to 15 V power

LEFT PANEL



RIGHT PANEL



Specifications

DMX-P01 Digital Portable Mixer	
Mic Input	Four XLR-3-31 (female) connectors Selectable mic -70 dBu to -30 dBu (max 0 dBu) or line level -30 dBu to +10 dBu (max. +24 dBu)
Line Input	Four XLR-3-31 (female) connectors Selectable mic -70 dBu to -30 dBu (max 0 dBu) or line level -30 dBu to +10 dBu (max. +24 dBu)
Line Output	Master output (analog) 2 ch: +4 dBu, -10 dBu, -60 dBu, (max. +24 dBu), XLR-3-32 (male) (x2) Digital output 2 ch: AES/EBU / XLR-3-32 (male) (x1), S/PDIF (or Cascade output) (x1)/ IEC 60958 coaxial phono connector, unbalanced Tape output (analog) 2 ch: -10 dBu, (max. -10 dBu) O1/8" TRS jack, unbalanced, 10 kohms or more
Frequency Response	20 Hz to 40 kHz +0.5/-3.0 db (@ 96 kHz)
Total Harmonic Distortion (Line Input to Line Output)	Less than 0.05%
Signal Processing	Digital limiter and LCF on each input, digital limiter and compressor on main output
Power Consumption	Internal: DC 12 V (eight AA-size alkaline batteries) External: DC 12 V via DC jack or DC 10 V to 15 V via XLR-4-32 (female)
Power Requirements	DC 12V
Dimensions (W x H x D)	266 x 68 x 206 mm (10 1/2 x 2 3/4 x 8 1/8 inches)
Mass	Approx. 2.2 kg (Approx. 4lb 13 oz)
Supplied Accessories	12-pin multi-connector (1), Meter scale sheets (6 types), Battery holders (2), Feet (4), Operation instruction CD-ROM (1), Operation manual (x1)

Products



PCM-D100 Portable High Resolution Audio Recorder

- DSD, PCM, and MP3 recording
 - Built-in high-quality Electret Condenser Microphones, adjustable from 90° -120°
 - Built-in 32GB internal Flash Memory and Optional SD Card slot
 - 5-Second Pre-record Buffer*¹
 - Divide/Combine during playback*¹
 - Track Mark Support*²
 - Dual Signal Path Mic Pre and ADC*³
 - Cfade-in, Fade-Out for LPCM self recordings
 - Super Bit Mapping for LPCM 16 bit self recording
- *¹ For PCM+MP3+SDS self recordings
 *² For PCM+MP3 self recordings
 *³ Optional modes for PCM+MP3 self recordings



PCM-M10 Portable Linear PCM Recorder

- User-friendly Operation
- 96kHz 24bit Recording
- 4GB Built-in Flash Memory
- 5 Second Pre-Record Buffer
- microSD / Memory Stick Micro (M2) Slot
- WAV and MP3 Format Record / Play
- Digital Pitch Control
- Sound Forge Audio Studio LE Software Included

Specifications

	PCM-D100	PCM-M10
Audio Formats Supported	Record: DSD, WAV and MP3; Playback: DSD, WAV, FLAC, MP3, WMA (Non DRM), AAC-LC (Non-DRM)	Record: .WAV and MP3; Playback: .WAV, .MP3, .WMA (Non DRM), .M4A (AAC-LC, Non-DRM)
Built-in Mic	Electret condenser microphones. Max input level: 128 dB SPL. Frequency response 20 Hz to 20 kHz	Electret condenser microphones. Max input level: 123 dB SPL. Frequency response 20 Hz to 20 kHz
Mic Input	(Stereo Mini Jack) Input impedance: 22 k ohm, Rated input level: 2.5 mV; Minimum input level: 0.7 mV	(Stereo Mini Jack) Input impedance: 22 k ohm, Rated input level: 2.5 mV; Minimum input level: 0.9 mV
Line Input (Analog)	(Stereo Mini Jack) Input impedance: 22k ohm; Minimum input level: 450mV; Rated input level: 2.0V	(Stereo Mini Jack) Input impedance: 22k ohms; Minimum input level: 500mV; Rated input level: 2.0V
Line Input (Optical)	Optical Digital Input: Input level: -27 dBm to -14 dBm; Emission wavelength: 660 nm	NA
Line Output (Analog)	Output impedance: 220 ohms; Output level: 1.7V; Load impedance 22k ohms	Line out available from headphone jack (menu selectable)
Line Output (Optical)	Output level: -21dBm to -15 dBm	NA
Headphone Output	Stereo Mini Jack; Maximum output: 25 mW + 25 mW or more; Load impedance: 16 ohms	Stereo Mini Jack; Maximum output: 20 mW + 20 mW; Load impedance: 16 ohms
Frequency Response	20Hz - 50kHz (Line In) @ DSD2.8 ; 20Hz - 45kHz (Line In) @ LPCM 192kHz/24bit	20 Hz to 40 kHz (Line in) @ 96kHz
Sampling Frequency	DSD 2.8MHz; LPCM 192kHz/176.4kHz/96kHz/88.2kHz/48kHz/44.1kHz	22.05kHz, 44.1kHz, 48kHz and 96kHz
Quantization	16-bit LPCM, 24-bit PCM and 1-bit DSD	16-bit linear, 24-bit linear
S/N Ratio	DSD 98dB or greater; LPCM 24 bit 96dB or greater	87dB or greater (1kHz IHF-A) when set to 24-bit
Total Harmonic Distortion (Line Input to Line Output)	DSD: 0.008% or below (1kHz, 22kHz LPF) LPCM: 0.006% or below (1kHz, 22kHz LPF)	0.03% or below (1kHz, 22kHz LPF)
Wow and Flutter	Below measurable limit (less than +/- 0.001%W.Peak)	Below measurable limit (less than +/- 0.001%W.Peak)
USB	High-speed USB,mass storage class	High-speed USB,mass storage class
Power Consumption	0.75w	0.27w
Power Requirements	Four AA size Alkaline batteries (supplied). Four AA NiMH Rechargeable batteries (optional)	Two AA size Alkaline batteries (supplied). Two AA NiMH Rechargeable batteries (optional)
DC Input Jack	6V	3V
Battery Life	25 hrs @44.1kHz/16 bit; 18 hrs @192kHz/24bit or 12 hrs @ DSD2.8	24 hrs @ 44.1kHz/16-bit or 19 hrs @ 96kHz/24-bit
Memory Stick Slot	Accepts SD, SD-HC,SD-XC, Memory Stick Pro Duo and Memory Stick Pro-HG	Accepts Memory Stick Micro (M2) and microSD
Dimensions	"2 7/8" x 6 1/8" x 1 1/4" (w x h x d) not including projecting parts and controls"	2 1/2" x 4 1/2" x 7/8" (w x h x d) not including projecting parts and controls
Weight	13.9 oz (including batteries)	6.6 oz (including batteries)

Products



MDR-7550 Professional In-Ear Headphones

- 16mm Driver Unit with ML Diaphragm
- In-Ear Monitor (IEM) Design
- Flexible Ear Hanger Ensures Superior Fit
- Hybrid Silicone/Rubber Earbuds, 3 Sizes Supplied
- Supplied Soft Case



MDR-7520 Professional Headphones

- 50mm Driver Unit with LCP Diaphragm
- Closed-Ear Design
- Wide Frequency Response
- High Power Handling Capacity 4,000mW
- Stereo Unimatch Plug
- Gold Connectors and OFC Cord
- Supplied Soft Case



MDR-7510 Professional Headphones

- 50mm Driver Unit with PET Diaphragm
- Closed-Ear Design
- Wide Frequency Response
- High Power Handling Capacity 2,000mW
- Stereo Unimatch Plug
- Gold Connectors and OFC Cord
- Supplied Soft Case



MDR-7502 Professional Headphones

- 40mm Driver Unit
- Closed-Ear Design
- Folding Construction
- Stereo Unimatch Plug
- Gold Connectors and OFC Cord
- Supplied Soft Case



MDR-7506 Professional Headphones

- 30mm Driver Unit
- Closed-Ear Design
- Stereo Unimatch Plug
- Gold Connectors and OFC Cord

Specifications

	MDR-7550	MDR-7520	MDR-7510	MDR-7506	MDR-7502
Headphone Type	Dynamic, In-Ear	Dynamic, Closed	Dynamic, Closed	Dynamic, closed	Dynamic, closed
Magnet Type	Neodymium	Neodymium	Neodymium	Neodymium	Neodymium
Driver Size	16.0 mm	50.0mm	50.0mm	40.0 mm	30.0 mm
Frequency Response	3-28kHz	5-80kHz	5-40kHz	10-20kHz	60-16kHz
Impedance	16 Ohms	24 Ohms	24 Ohms	63 Ohms	24 Ohms
Sensitivity	108 dB/mW	108 dB/mW	108 dB/mW	106 dB/W/m	102 dB/mW
Power Handling	500mW	4,000mW	2,000mW	1,000mW	500mW
Plug Type	Gold, Stereo Unimatch plug 1/4" and 1/8"	Gold, Stereo Unimatch plug 1/4" and 1/8"	Gold, Stereo Unimatch plug 1/4" and 1/8"	Gold, Stereo Unimatch plug 1/4" and 1/8"	Gold, Stereo Unimatch plug 1/4" and 1/8"
Cord Length	5.25 ft	9.8 ft	9.8 ft	9.8 ft	6.5 ft
Weight	.25 oz	9.5 oz	9.2 oz	8.1 oz	5.1 oz.
Supplied Accessories	Carrying Case, UniMatch Plug, Silicone/Rubber Hybrid Earbuds, 3 Sizes	Carrying Pouch, Unimatch Plug	Carrying Pouch, Unimatch Plug	Carrying Bag, UniMatch Plug	Carrying Bag, UniMatch Plug

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