

DWM-01/C31

Digital handheld microphone with uni-directional condenser capsule



Sony is renowned for innovation in digital audio, and is the top artists' choice for studio microphones. Now, all of this expertise and legendary performance is available in a digital wireless microphone system.

Focused on supremely high quality audio and extreme usability for performers, the digital microphone range is set to become the standard choice for performers and live audio engineers worldwide.

Starting with a new microphone condenser capsule perfectly matched for vocal applications, the all-digital wireless signal path maintains the essence of the live performance transparently, with a wide frequency response and a superb dynamic range.

For performers, it's the ideal size and weight for the most demanding conditions. For engineers and producers, microphone metadata allows accurate and instant control of important parameters.

Uncompromised audio quality, digital wireless consistency and real-time metadata. A wireless microphone system that delivers the digital promise.

NOTE: This model is available in multiple versions to support the widest possible range of operating frequencies. Please refer to product specifications for more information.

Features

Digital handheld microphone with newly developed uni-directional (super-cardioid) condenser capsule

An ergonomically packaged microphone for use with Sony's digital wireless transmitter/receivers. The condenser capsule is optimised for high quality vocal

performance, and the supercardioid polar response minimises feedback in live performances

Low latency and secure audio transmission with metadata

With the DWM-01/C, the delay in the signal path between the microphone and the output of the receiver is so small as to be imperceptible to performers

Frequency response 60Hz - 20kHz. Maximum input level 151dB SPL

Wide frequency response for capturing every nuance, and able to withstand very high sound pressure levels

Robust monocoque body with efficient design

A durable, one-piece body, easy to hold, lightweight, with an elegant shape that is derived from the usability of the design.

Long battery life

Five hour battery life using two AA alkaline batteries with RF power set to 10 mW.

Selectable output power

Output power selectable between 1/10/50 mW. Choose the minimum power necessary for a venue, lengthening battery life, and reducing the already low possibility of interference. Allows the microphone to work effectively in a very wide range of venues.

Remote control of transmitter functions from the receiver

Input attenuation, RF frequency selection, RF power output, Audio Low-pass cutoff frequency and transmitter Sleep Mode can all be controlled remotely from the digital wireless receiver

Technical Specifications

Transmitting section

Wireless Interface	WiDIF-HP
Oscillator type	Crystal-controlled PLL synthesizer

Carrier frequencies (depending on model)	DWM-01/C31/33 566MHz - 630MHz (covering TV Channels 33-40) DWM-01/C31/42 638MHz - 710MHz (covering TV Channels 42-50) DWM-01/C31/51 710MHz - 782MHz (covering TV Channels 51-59) DWM-01/C31/6267 798MHz - 862MHz (covering TV Channels 62-69 excluding 65 & 66)
RF power output	1 mW/10 mW/50 mW (e.r.p) selectable

Audio section

Microphone capsule	Electret Condenser
Directivity	unidirectional (cardioid)
Maximum input level	151 dB SPL (with 21 dB attenuator)
Audio attenuator adjustment range (pad)	0 to 21 dB (3dB steps)
Frequency response	60 Hz to 20 kHz
Signal-to-noise ratio (A-weighted, 94dB SPL, 1KHz)	66 dB or more
Audio Delay	1.5 ms

Remote Control Section

Wireless remote control	Cross Remote (2.4-GHz IEEE802.15.4 compliant)
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General

Operating voltage	3 V DC, with two LR6 (AA) alkaline batteries
Battery life	Continuous operating time 5 hours (at 25 °C (77 °F), 10-mW output using Sony LR6 (AA)-size alkaline batteries with the wireless remote control function off and DIMMER MODE set to AUTO OFF)
Operating temperature	0 to 50 °C (32 to 122 °F)
Storage temperature	-20 to +60 °C (-4 to +140 °F)
Dimensions	ø47.6 mm (1 7/8 inch), L=249 mm (9 7/8 inch)
Mass (including batteries)	298 g (10.5 oz)

Supplied Accessories

	Identification ring set
	Microphone holder
	USB adapter cable
	Carrying case
	Operating Instructions
	CD-ROM
	Stand adapter (PF1/2 to W3/8 type)