

# DWZ Series

DWZ-M50 / DWZ-B30GB / DWZ-B50GB / DWZ-B50I  
Digital Wireless Microphone Package

**SONY**  
make.believe







Power to the Wireless,  
Power to your Performance



## Great Audio Experiences for all Musicians

Enjoy powerful sound from Sony! The DWZ Series wireless microphones provide astonishing sound quality without complex operation. With 24-bit linear PCM digital, you get high sound quality with reliable RF transmission, utilizing unique transmission technology developed by Sony. Also, with support for two RF modes, your experiences can be shared over Wi-Fi.



DWZ-M50



DWZ-B30GB



DWZ-B50GB



DWZ-B50I



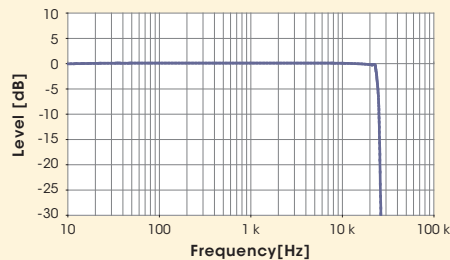
## FEATURES and TECHNOLOGIES

DWZ-M50 DWZ-B30GB DWZ-B50GB DWZ-B50I

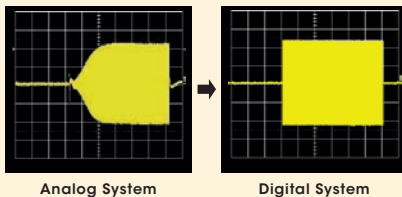
### ● Superb Digital Sound Quality

High-quality 24-bit linear PCM digital transmission offers pristine audio and a wide frequency range of 10 Hz to 22 kHz. With these high-quality digital packages, you can experience professional music performances from vocalists, guitarists, bassists, and wind instrument players. Audio performance degradation that's typical of conventional analog wireless systems is avoided, as these packages are designed without the need for a compander.

#### Frequency Response



#### Dynamic Response



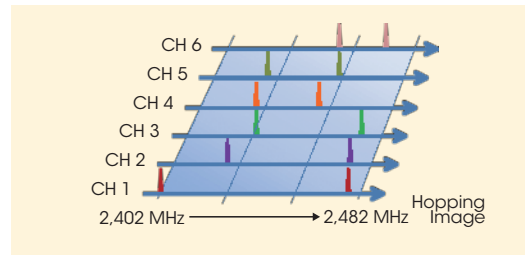
DWZ-M50 DWZ-B30GB DWZ-B50GB DWZ-B50I

### ● Two RF Modes for Reliable Transmission

The DWZ Series provides two selectable RF modes. Simply choose the one that makes best use of your actual 2.4 GHz RF environment.

#### [ Wide Band Hopping Mode ]

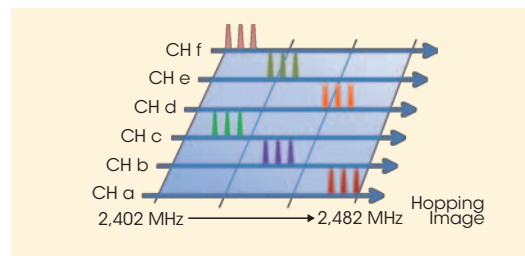
This mode reduces interference to other wireless equipment used in the same environment such as Wi-Fi. There's no need for advanced technical knowledge about radio frequency. Wide Band Hopping Mode also supports additional error correction for more secure transmission\*1.



\*1 Audio delay: Approx. 6 ms

#### [ Narrow Band Hopping Mode ]

This mode helps to avoid interference from other devices – for example, 2.4 GHz wireless remote controllers that are commonly used for lighting control. This enables frequencies to be coordinated when using multiple wireless systems simultaneously\*2.



\*2 Audio delay: Approx. 3 ms

DWZ-M50 DWZ-B30GB DWZ-B50GB DWZ-B50I

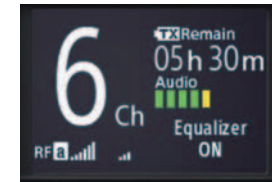
### ● Stable Transmission

Interruptions in reception (signal dropout) can be a problem with wireless microphone transmission systems. With the DWZ Series, however, dropouts are reduced to a minimum. Utilizing a space diversity reception system, stable reception is achieved by using dual-antenna inputs / reception circuits. These receive signals over two different paths and automatically select the stronger RF signal for output.

DWZ-M50 DWZ-B50GB DWZ-B50I

### ● Large Color LCD

The ZRX-HR50 half-rack size receiver (supplied with the DWZ-M50, DWZ-B50GB, and DWZ-B50I package) includes a large color LCD display to provide detailed visual status of your selected channel, signal, and five-band digital equalizer, along with audio level, and transmitter battery life.



DWZ-M50 DWZ-B50GB DWZ-B50I

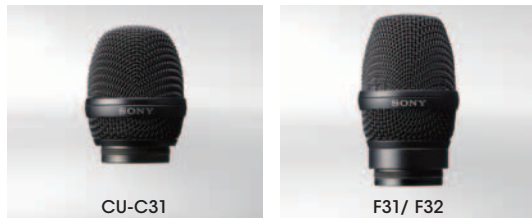
### ● Fast and Easy Setup

With its Clear Channel Scan and Best Channel Selection features, the half-rack ZRX-HR50 detects unoccupied channels and selects the most appropriate channel automatically, for fast and easy system setup.

## DWZ-M50

### ● Interchangeable Capsules

With the handheld transmitter, you can use the supplied high-quality dynamic cardioid microphone capsule. Alternatively, you can select any of Sony's DWX Series capsules (the thread pitch is 1.25"/28 (31.3 mm/pitch 1.0 mm threading))\*.



\* Use of third-party capsules may cause RFI or EMF noise.

## DWZ-B50I

### ● High-quality Condenser Microphone

This microphone is ideal for use with trumpets, saxophones, and other wind instruments.\*1 The wide dynamic range and wide frequency range allow for balanced, natural, and clear sound pickup. The capsule provides high input resistance and low noise, and the uni-directional directivity reduces howling and effectively separates unnecessary sources of sound. Also, the flexible gooseneck and two-way clip allow for easy optimal position adjustment.

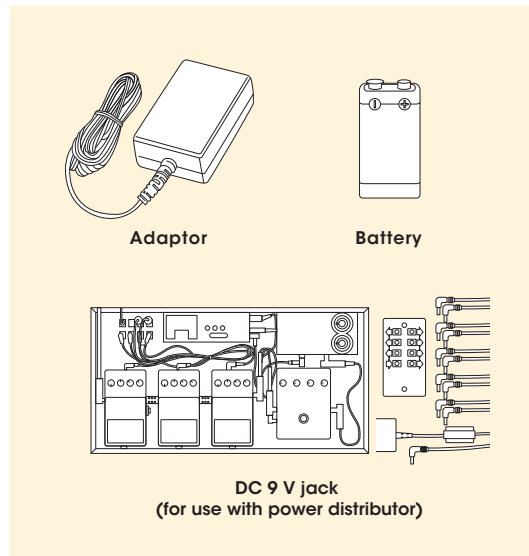


## DWZ-B30GB

### ● Multiple Power Supplies

The ZRX-C30 receiver (supplied with the DWZ-B30GB) supports three types of powering. With the DC 9 V battery, the receiver can be used as a portable device for up to 3.5 hours, free from an AC adaptor cord and maximizing layout flexibility. Also, using this battery provides a simple solution for eliminating noise pick-up caused by the power supplies. For long-duration use, the receiver can be powered with the supplied AC 12 V adaptor, or the DC 9 V jack (for use with a power distributor).

The ZRX-C30 compact-size receiver (supplied with the DWZ-B30GB) supports three types of powering.



## DWZ-M50

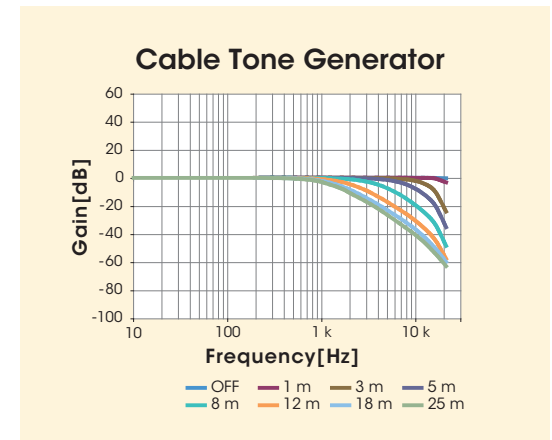
## DWZ-B30GB

## DWZ-B50GB

## DWZ-B50I

### ● Wired / Wireless Seamless Operation

The ZRX-C30 and ZRX-HR50 are equipped with a Cable Tone Generator feature to simulate a wired tone when using wireless. There's no need to adjust the equalizer setting on your amplifier when switching between wired and wireless. Simply adjust the dial on the ZRX-C30 or set the Cable Tone Generator menu on the ZRX-HR50 display to match the desired wired tone.



\*1 DPA d:vote and 4099-series instrument attachments for microphones can also be used. This allows you to attach the microphone to a wider variety of instruments.

DWZ-M50 DWZ-B50GB DWZ-B50I

## ● Five-band Equalizer

With the five-band digital equalizer in the half-rack ZRX-HR50 receiver, you'll find it's easy to adjust the sound character of your handheld microphone as desired.

DWZ-M50 DWZ-B30GB DWZ-B50GB DWZ-B50I

## ● Adjustable Attenuator

Adjustable transmitter attenuators allow you to select proper audio input levels from the microphone and instruments. The ZTX-B01 can be switched between instrument and microphone input.

DWZ-M50 DWZ-B30GB DWZ-B50GB DWZ-B50I

## ● Tuner Out Interface

Tuner output is available for tuning. The ZRX-HR50 also has a transmitter-muting selector which provides a choice of connectors that can be muted.

DWZ-M50 DWZ-B30GB DWZ-B50GB DWZ-B50I

## ● Robust Metal Body

The ZTX-M01 handheld microphone (supplied with the DWZ-M50) and the ZTX-B01 body pack transmitter (supplied with the DWZ-B30GB, DWZ-B50GB, and DWZ-B50I) are made of strong durable metal. Metal construction supports reliable use in rough operating conditions.

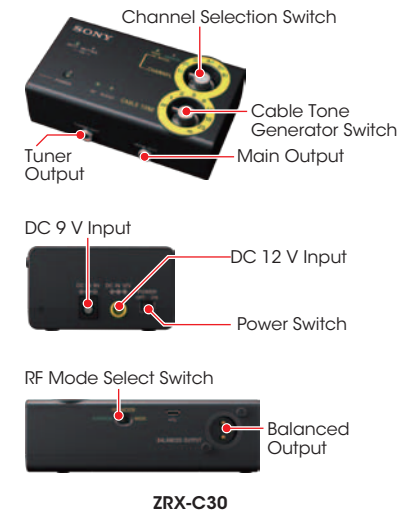
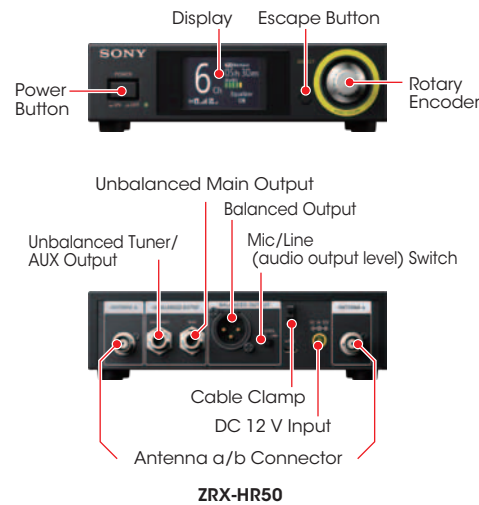
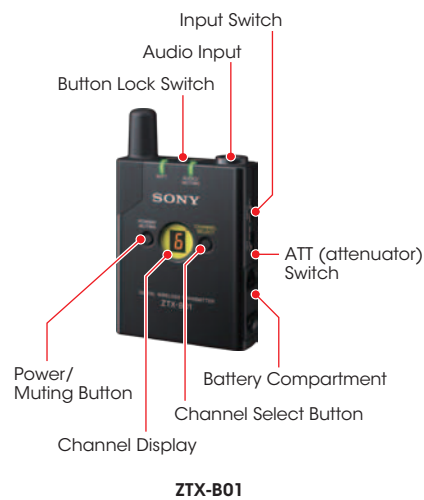
DWZ-B30GB

## ● Pedal Board-ready with Built-in Antenna











The ZRX-C30 has a light and compact design. It allows the receiver to fit into a pedal board system, or to be placed on top of a guitar amplifier. Also, the antenna is built-in to protect it from serious damage under rough handling conditions.



## BUTTONS and INTERFACES



## PACKAGE LINEUP MATRIX

		For vocalist	For guitar and bass		For other instruments
		 <b>DWZ-M50</b>	 <b>DWZ-B30GB</b>	 <b>DWZ-B50GB</b>	 <b>DWZ-B50I</b>
	<b>ZRX-HR50</b> Half-rack receiver (DIGITAL WIRELESS RECEIVER)	✓		✓	✓
	<b>ZRX-C30</b> Compact receiver (DIGITAL WIRELESS RECEIVER)		✓		
	<b>ZTX-B01</b> Bodypack transmitter (DIGITAL WIRELESS TRANSMITTER)		✓	✓	✓
	<b>ZTX-M01</b> Digital Wireless Microphone	✓			
	<b>ECM-GZ1UBMP</b> Gooseneck Microphone				✓
	<b>GC-0.7BMP</b> Guitar cable (GUITAR CABLE)		✓	✓	

### Optional Accessories



**GC-0.7BMP**  
Guitar cable



**ECM-GZ1UBMP**  
Gooseneck Microphone



**AD-RX7B**  
Windscreen pack



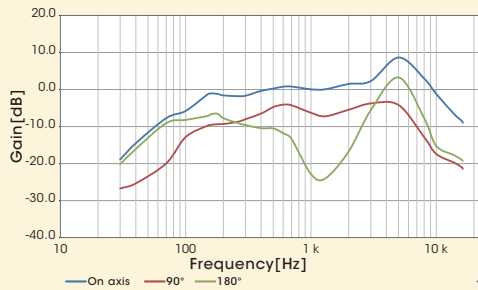
**RMM-HRD1\*1**  
Rack mount kit

\*1 For single/double use

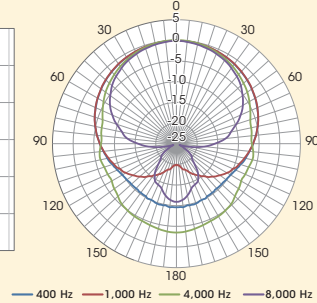
# SPECIFICATIONS

## ZTX-M01

### Frequency Response Characteristics

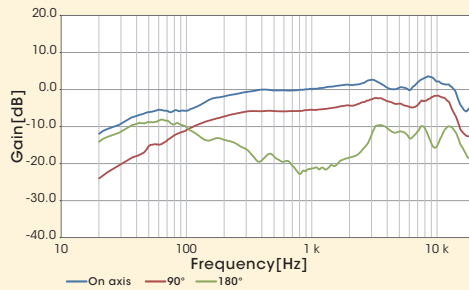


### Directivity Characteristics (1 kHz)

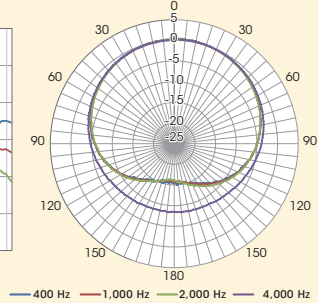


## ECM-GZ1UBMP

### Frequency Response Characteristics



### Directivity Characteristics (1 kHz)



Model Code	ECM-GZ1UBMP
Capsule Type	Condenser
Directivity	Uni-directional
Frequency Response	20 Hz to 22 kHz
Sensitivity	-55.0 dB ±3.0 dB (1 kHz/Pa)
Dynamic Range	120 dB or more
Maximum Input Sound Pressure Level	150 dB SPL at 1kHz
Microphone Head	φ17/32 X 1 3/16 inches (13 x 29 mm) (diameter/length)
Mic Cable	5 feet 11 inches (1.8 m)
Power Requirements	DC 3 V to 10 V
Supplied Accessories	Windscreen (1) Carrying pouch (1) Operating instructions (1)

Model Code	DWZ-M50	DWZ-B30GB	DWZ-B50GB	DWZ-B50I
Transmitting Section	Transmitter Type Handheld		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 Rackmount (Half / 1 channel)	Compact (1 channel)		Rackmount (Half / 1 channel)
	Reception Type	Space diversity		
	Antenna Type	External whip antenna	Internal monopole antenna	External whip antenna
	Receiving Frequencies	2,402.0 MHz to 2,478.5 MHz		
	RF Sensitivity	24 dBµV or less	30 dBµV or less	24 dBµV or less
Audio Section	Capsule Type Dynamic		-	Condenser
	Directivity Uni-directional		-	Uni-directional
	Maximum Input Level 142 dB SPL (with 12 dB attenuator)	MIC: -22 dBu / INST: +8 dBu (with 0 dB attenuator)		
	Audio Attenuator Adjustment Range 0 / 6 / 12 dB	0 / 10 / 20 dB		
	Frequency Response Transmission: 10 Hz to 22 kHz/Microphone unit: 70 Hz to 16 kHz	10 Hz to 22 kHz		Transmission: 10 Hz to 22 kHz/Gooseneck Microphone: 20 Hz to 22 kHz
	Dynamic Range 102 dB (A-weighted)	MIC: 102 dB (A-weighted) / INST: 98 dB (A-weighted)		
	Distortion (T.H.D.)	0.03% or less (-38 dBu, 1 kHz input)		
	Audio Delay	Narrow band mode: Approx. 3 ms / Wide band mode: Approx. 6 ms (Transmitter + Receiver)		
	Analog Output	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: -20 dBu -Main/Tuner Out: -28 dBu	-Balanced Output MIC: -58 dBu / LINE: -12 dBu -Unbalanced Output: -28 dBu
Other Equipment	Display LCD			LCD
General	Power Requirements ZTX-M01: DC 3.0 V (two LR6 (size AA) alkaline dry cell batteries) ZRX-HR50: DC 12 V	ZRX-C30: DC 12 V / 9 V / Square 9 V 6LR61 battery		ZTX-B01: 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 (77 °F (25 °C) ambient temperature, Sony LR6 (size AA) alkaline dry cell batteries)	ZTX-B01: Approx. 10 hours of continuous use (77 °F (25 °C) ambient temperature, Sony LR6 (size AA) alkaline dry cell batteries) ZRX-C30: Approx. 3.5 hours of continuous use (77 °F (25 °C) ambient temperature, Sony square 9 V alkaline dry cell battery)		Approx. 10 hours of continuous use (77 °F (25 °C) ambient temperature, Sony LR6 (size AA) alkaline dry cell batteries)
	Operating Temperature	32°F to 122°F (0°C to 50°C)		
	Storage/Transport Temperature	-4°F to +140°F (-20°C to +60°C)		
	Dimensions	ZTX-M01: φ1 15/16 x 10 1/4 inches (48 x 258 mm) (diameter/length) ZRX-HR50: 6 5/8 x 1 3/4 x 3 7/8 inches (168 x 44 x 96 mm) (W/H/D)	ZTX-B01: 63 x 80 x 20 mm (2 1/2 x 3 1/4 x 13/16 inches) (W/H/D) (excluding the antenna) ZRX-HR50: 6 5/8 x 1 3/4 x 3 7/8 inches (168 x 44 x 96 mm) (W/H/D)	
	Weight	ZTX-M01: 11 oz (305 g) (including batteries) ZRX-HR50: 1 lb 2 oz (510 g)	ZRX-C30: 205 g (7.2 oz) (including battery)	ZTX-B01: 5.5 oz (156 g) (including batteries) ZRX-HR50: 1 lb 2 oz (510 g)
	Supplied Accessories	Microphone holder (1) Antenna (2) AC adaptor (1) Quick Start Guide (1) CD-ROM (1)	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) Belt clip screw (1) Antenna (2) AC adaptor (1) Quick Start Guide (1) Quick Start Guide (1) CD-ROM (1)

©2013 Sony Corporation. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Features and specifications are subject to change without notice. "SONY" and "make.believe" are trademarks of Sony Corporation. All other trademarks are the property of their respective owners.