

## DWZ-B30GB

DWZ Series digital wireless set for guitar and bass with compact receiver



### Overview

**Package features ZRX-C30 digital wireless compact receiver, ZTX-B01 digital wireless body-pack transmitter and GC-0.7BMP guitar cable**

The guitar set version of the DWZ digital wireless microphone system offers high quality 24-bit / 48KHz linear PCM digital transmission and has a cable tone generator and three-way powering options for the exceptional versatility for portable and outdoor use.

#### **Superb digital sound**

With 24-bit linear PCM digital, you get high sound quality with reliable RF transmission, utilising unique transmission technology developed by Sony. Also, with support for two RF modes, your experiences can be shared over WiFi.

### Features

#### **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. Audio performance degradation that's typical of conventional analogue wireless systems is avoided, as these packages are designed without the need for a compander.

#### **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 WiFi. 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.

## 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.

\*1 Audio delay: Approx. 6 ms

\*2 Audio delay: Approx. 3 ms

## **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.

## **Multiple power supplies**

The ZRX-C30 receiver 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).

### **Wired / wireless seamless operation**

The ZRX-HR50 is 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 set the Cable Tone Generator menu on the ZRX-HR50 display to match the desired wired tone.

### **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.

### **Variety of interfaces**

The ZRX-HR50 features 3-way parallel audio output, ¼" TS phone (x2), and balanced XLR (x1).

### **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.

### **Robust metal body**

The ZTX-B01 is made of strong durable metal. Metal construction supports reliable use in rough operating conditions.

### **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.

### Variety of interfaces and LED indicators

The ZRX-C30 features 3-way parallel audio output, ¼” TS phone (x2), and balanced XLR (x1). There are also LED Indicators for status monitoring for TX & RX.

### Easy-to-use operation

The ZTX-B01 features a muting function for tuning. In addition, a lock function protects from inadvertent setting changes.

### Two AA battery operation

The ZTX-B01 is powered by standard AA batteries to maximise flexibility and mobility.

## Specifications

### Transmitting Section

|                   |                           |
|-------------------|---------------------------|
| Transmitter Type  | Bodypack                  |
| Antenna Type      | Internal monopole antenna |
| Type of Emission  | F1D and F1E               |
| Modulation Method | GFSK                      |
|                   | 2402.0 MHz to 2478.5 MHz  |
|                   | Ch1: 2402/2478.5 MHz      |
|                   | Ch2: 2421.5/2472.5 MHz    |
|                   | Ch3: 2427.5/2475.5 MHz    |
|                   | Ch4: 2424.5/2446.5 MHz    |
|                   | Ch5: 2449.5/2469.5 MHz    |

|                     |                              |
|---------------------|------------------------------|
| Carrier Frequencies | Ch6: 2405/2452.5 MHz         |
|                     | Ch a: 2469.5/2474/2478.5 MHz |
|                     | Ch b: 2442.5/2447/2451.5 MHz |
|                     | Ch c: 2415.5/2420/2424.5 MHz |
|                     | Ch d: 2456/2460.5/2465 MHz   |
|                     | Ch e: 2429/2433.5/2438 MHz   |
|                     | Ch f: 2402/2406.5/2411 MHz   |

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| RF Power Output | 10 mW (e.i.r.p.) |
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| Occupied RF Bandwidth | 2.5 MHz |
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## Receiving Section

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| Receiver Type | Compact (1 channel) |
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| Reception Type | Space diversity |
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|--------------|---------------------------|
| Antenna Type | Internal monopole antenna |
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|                       |                          |
|-----------------------|--------------------------|
|                       | 2402.0 MHz to 2478.5 MHz |
|                       | Ch1: 2402/2478.5 MHz     |
|                       | Ch2: 2421.5/2472.5 MHz   |
|                       | Ch3: 2427.5/2475.5 MHz   |
|                       | Ch4: 2424.5/2446.5 MHz   |
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| Receiving Frequencies | Ch6: 2405/2452.5 MHz     |

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|----------------|-----------------------|
| RF Sensitivity | 30 dB $\mu$ V or less |
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## Audio Section

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| Input Connector | 3-pole locking mini plug |
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| Input Impedance | 1.8 k ohms or more(MIC input)/<br>1 M ohms or more(INST input) |
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| Reference Input Level | MIC: -58 dBu<br>INST: -28 dBu<br>(when attenuator level is 0 dB) |
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| Maximum Input Level | MIC: -22 dBu<br>INST: +8 dBu<br>(when attenuator level is 0 dB) |
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| Audio Attenuator<br>Adjustment Range | 0 / 10 / 20 dB |
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| Frequency Response | 10 Hz to 22 kHz |
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| Dynamic Range      | MIC: 102 dB (A-weighted)<br>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 /<br>Wide band mode: Approx. 6 ms<br>(Transmitter + Receiver) |
|                    | XLR-3-32, balanced (x1)<br>Phone jack, unbalanced (x2)                                       |
| Analog Output      | Maximum output level<br>-Balanced Output: +16 dBu<br>-Main/Tuner Output: +8 dBu              |
|                    | Reference output level<br>-Balanced Output: -20 dBu<br>-Main/Tuner Out: -28 dBu              |

## General

|                    |   |
|--------------------|---|
| Power Requirements | ZTX-B01: 3.0 V DC (two LR6 (size AA) alkaline dry cell batteries)<br>ZRX-C30: External DC input: 12 V DC / 9 V DC, Dry cell battery: Square 9 V alkaline dry cell battery (6LR61) |
|--------------------|---|

|                               |   |
|-------------------------------|---|
| Battery Operating Time        | ZTX-B01: Approx. 10 hours of continuous use (25 °C (77 °F) ambient temperature, Sony LR6 (size AA) alkaline dry cell batteries)<br>ZRX-C30: Approx. 3.5 hours of continuous use (25 °C (77 °F) ambient temperature, Sony square 9V alkaline dry cell battery) |
| Operating Temperature         | 0°C to 50°C<br>32°F to 122°F  |
| Storage/Transport Temperature | -20°C to +60°C<br>-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)<br>ZRX-C30: 132 × 41 × 74 mm (5 1/4 × 1 5/8 × 3 inches) (w/h/d)   |
| Mass                          | ZTX-B01: Approx. 156 g (5.5 oz.) (including batteries)<br>ZRX-C30: Approx. 205 g (7.2 oz.) (including battery)  |
| Supplied Accessories          | Guitar cable (1)<br>Belt clip (1)<br>Belt clip screw (1)<br>Cable clamp (1)   |



AC adapter (1)  
Operating Instructions (1)  
CD-ROM (1)

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Optional Accessories GC-0.7BMP

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## Notes

Notes \* The values for dimensions are approximate.

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## Gallery

