By Digital Signal Processing

**Specifications**

- **Frequency range:** 1500 channels.
- **Frequency mode:** Single, doublet, APT, JR, and tuning step.
- **Resolving system:**
  - Digital
  - IF: 2.2 kHz
  - AF: 10 kHz
- **Dynamic range:**
  - 100dB (300Hz IF bandwidth)
- **Sensitivity:**
  - 106dB (300Hz IF bandwidth)
  - 70dB or more (-50dB) at 10kHz
  - 100kHz to 1999.999MHz
  - 849.100MHz to 868.900MHz

**Options**

- **CGD-197**
  - Temperature Compensated K'2tal Oscillator (TCXO)
- **CGD-197**
  - Wide-Band Converter Unit
- **COG-03**
  - Active Speaker Impedance: 8 ohms
  - Max. output: 30W
  - Dimensions: 180/130/290 mm
  - Weight: Approx. 2kg
- **RDS-330**
  - External Speaker Impedance: 600 ohms (Hi-Z terminal)
  - 50 ohms (Lo-Z terminal)
  - Dimensions: 560/300/90 mm
  - Weight: Approx. 9kg
- **RDS-330**
  - External Speaker Impedance: 600 ohms (Hi-Z terminal)
  - 50 ohms (Lo-Z terminal)
  - Dimensions: 560/300/90 mm
  - Weight: Approx. 9kg

**Dimensions**

- **Dimensions:**
  - 330W x 285E x 130H mm
  - Weight: Approx. 300g

**Frequency and appearance may be subject to change without notice. For further information, contact:**

Japanese Radio Co., Ltd.

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**Clear, Distortion-Free Sound Reproduced**

The quality of radio reception, especially in the shortwave bands, is greatly affected by the performance of the receiver, because of the high density of the shortwave radio spectrum and the wide dynamic range of small to large signals. The receiver's sensitivity significantly influences the overall performance, and even a slight difference in sensitivity can noticeably affect the quality of reception.

**By Digital Signal Processing**

Digital signal processing has become an integral part of modern receivers. It enables the receiver to handle a wide variety of signals, from clear and distortion-free to complex and noisy. The DSP IC processes the incoming signals, enhances the reception quality, and provides a clear, distortion-free sound reproduction.

**High-Speed DDS IC**

A DDS (Direct Digital Synthesizer) is a device that generates a precise and stable frequency. In this receiver, a DDS IC is used to synthesize the required frequencies accurately and quickly. The DDS IC has a high-speed frequency capability, which is crucial for clear reception of shortwave signals.

**Refined Design and Superior Functionality**

All the internal synthesizers are controlled by a standard frequency oscillator. The frequency stability can be enhanced to ±0.5 ppm by the standard frequency oscillator. The frequency characteristic is superior to that of a crystal filter, allowing continuous bandwidth adjustment.

**Remote Control by Personal Computer**

This feature enables the receiver to be controlled remotely through a PC, providing enhanced reliability and serviceability. The receiver can be controlled using a computer via RS-232C interface.

**Large Memory Capacity of 1,600 Channels**

This receiver has a large memory capacity of 1,600 channels, allowing users to store and recall various types of radio communication information. This feature is particularly useful for shortwave broadcasting, ensuring clear sound reception where multi-signal characteristics are significantly improved.

**High-Sensitivity Crystal Oscillator (Option)**

An optional board enables users to get various types of radio communication information. This option also includes a high-sensitivity crystal oscillator, which contributes to superior performance. The CHE-199 converter unit is designed to receive RTTY signals via a keyboard or RS-232C interface.

**Large Memory Capacity of 1,000 Channels (Option)**

This receiver includes an optional large memory capacity, allowing users to store and recall various types of radio communication information. This feature is particularly useful for shortwave broadcasting, ensuring clear sound reception where multi-signal characteristics are significantly improved.

**Beat Interference (narrow blanking width) and NB2 (wide blanking width) can be switched over, and the NB detection sensitivity is adjustable within ±2.5kHz in 10Hz steps.**