

**COMMUNICATIONS
RECEIVER**

R-600



The R-600 is a high performance general coverage communications receiver covering 150 kHz to 30 MHz in 30 bands. Use of PLL synthesized circuitry provides highly accurate frequency control with maximum ease of operation. Use of the latest in technology assures the ultimate in short wave listening enjoyment on all covered frequencies, whether using AM, SSB, or CW modes of operation. The compact size of the R-600 allows the user the maximum flexibility in placement of the radio, and the front mounted speaker permits the radio to be located between shelves without degradation of audio quality.

R-600 FEATURES:

CONTINUOUS FREQUENCY COVERAGE FROM 150 kHz to 30 MHz

Receives short wave, medium wave, and long wave frequencies, and detects AM, SSB, or CW signals.

30 BANDS, EACH 1 MHz WIDE

Large bandswitch and VFO control knobs make operation easier and more accurate.

FIVE DIGIT FREQUENCY DISPLAY

Accurate, easy-to-read digital display, with 1 kHz resolution makes tuning smooth and easy. The use of green LED's permits easier reading and reduces eye fatigue.

TWO BUILT-IN IF FILTERS

6 kHz filter for AM (wide), and 2.7 kHz filters for SSB, CW and AM (narrow) provide optimum selectivity.

UP-CONVERSION PLL CIRCUIT

Excellent sensitivity, selectivity, and frequency stability, plus ease of operation, with no need for preselector, bandspread, or antenna tuning.

COMMUNICATIONS TYPE NOISE BLANKER

Built-in noise blanker circuit eliminates ignition and other pulse-type noise much more effectively than the conventional noise limiters.

RF ATTENUATOR

Provides 20 dB attenuation of incoming signals. Useful in picking out DX stations surrounded by strong signals.

TONE CONTROL

Allows operator to adjust audio frequency response to optimize reception under varying signal conditions.

FRONT MOUNTED SPEAKER

Provides improved audio quality, and allows radio to be operated in confined locations.

"S" METER WITH SINPO S-SCALE

"S" meter with SINPO S-SCALE meter reads 1 to 5 SINPO "S-SCALE", as well as having conventional "S" meter scale.

THREE ANTENNA TERMINALS

High-low impedance antenna input terminals coax connector for low impedance (50 Ω), and wire terminals for high impedance (500 Ω), or low impedance (50 Ω) antenna connection.

100 - 240 V AC OPERATION

AC input voltages of 100, 120, 220, and 240V AC, 50/60 Hz, may be selected, using the rotary switch located on the rear panel.

OPTIONAL 13.8 V DC OPERATION

The R-600 may be operated from a 13.8V DC supply, using the optional DCK-1 DC power cable kit.

RECORDING OUTPUT JACK ON FRONT PANEL

An output jack is located on the front panel for convenience in recording received signals. The output signal level is not affected by the position of the volume control.

MUTING TERMINAL

Provision is made for muting the receiver when used in conjunction with a transmitter. A terminal is provided for this purpose on the rear panel.

ANTENNA INPUT PROTECTION

The antenna input circuit is fused to minimize the possibility of damage due to lightning or other static electricity discharge.

EXTERNAL SPEAKER JACK

An output jack is provided on the rear panel for connecting an external, remote speaker.

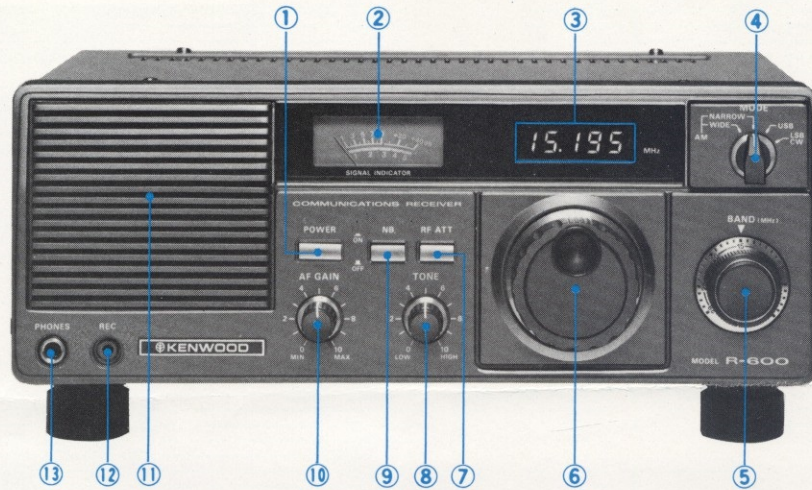
HEADPHONE JACK

A standard 1/4 inch headphone jack is provided on the front panel for use in private listening.

CARRYING HANDLE

A carrying handle is located conveniently on the right side, for ease in transporting the radio. Plastic feet are positioned on the left side to protect the finish should the unit be rested on this side during the moving process.

FRONT PANEL CONTROLS



① Power Switch

② "S" Meter

Indicates strength of received signals.

③ Digital Display

Indicates frequency of received signal.

④ Mode Switch

Selects operating modes:

- AM (Wide):
For broadband AM reception such as from AM broadcast band.
- AM (Narrow):
For AM voice reception, with maximum rejection of interfering signals.
- USB:
For SSB (USB) reception
- LSB/CW:
For SSB (LSB) or CW reception

⑤ Bandswitch

Selects frequency band in MHz, from 0 to 29 in 1 MHz steps.

⑥ Main Tuning Knob

Use to select frequency within each band.

⑦ RF ATT Switch

Allows 20 dB input signal attenuation.

⑧ Tone Control

Allows adjustment of audio frequency response to minimize effect of interference.

⑨ NB Switch

Noise blanker, minimizes effect of ignition and other pulse-type interference.

⑩ AF GAIN Control

Allows adjustment of speaker output volume.

⑪ Speaker

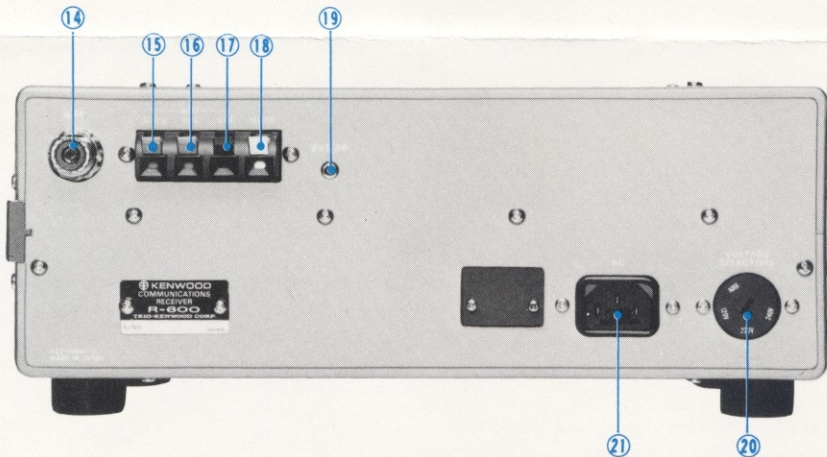
⑫ RECORD Jack

Permits use of tape recorder to record signals being received.

⑬ PHONES Jack

Allows use of headphones for private listening.

REAR PANEL VIEW



⑭ Antenna Connector

SO-239 coax connector for antenna lead. (50Ω)

⑮ Antenna Terminal (A)

500Ω high impedance antenna input. (long wire antenna)

⑯ Antenna Terminal (B)

50Ω low impedance antenna.

⑰ GND Terminal

Ground connection

⑱ MUTE Terminal

Permits use of external speaker.

⑳ VOLTAGE SELECTOR

Selects AC input power voltage.

㉑ AC CONNECTOR

Connect the supplied AC power cable.



HS-6

OPTIONAL ACCESSORIES

HS-4

Headphones (8Ω)

HS-5

Deluxe Headphones
(8Ω)

HS-6

Light Weight Headphones
(4Ω ~ 16Ω)

HC-10

Digital World Clock

DCK-1

The DCK-1 is the DC power cable kit for DC operation of the R-600.



R-600 SPECIFICATIONS

Frequency range: 150 kHz ~ 30 MHz

Mode: AM, SSB, CW

Sensitivity (S + N/N 10 dB or more)

Frequency	Mode	SSB/CW	AM
150 kHz ~ 2 MHz		less than 5 μV (50Ω)	less than 50 μV (50Ω)
2 MHz ~ 30 MHz		less than 0.5 μV (50Ω)	less than 5 μV (50Ω)

Selectivity: AM (WIDE) 6 kHz (-6 dB), 18 kHz (-50 dB)
 AM (NARROW) 2.7 kHz (-6 dB), 5 kHz (-50 dB)
 SSB/CW 2.7 kHz (-6 dB), 5 kHz (-50 dB)

Image Ratio: Better than 60 dB

IF Rejection: Better than 60 dB

Frequency Stability: Within ±2 kHz during the first hour after 1 minute of warm-up.

Within 300 Hz during any 30 minute period thereafter.

Antenna Impedance: 50Ω/500Ω

Audio Output Power: 1.5W (8Ω load, 10% distortion)

Audio Output Impedance: 4Ω ~ 16Ω, external speaker or headphone

Power Consumption: 100V AC 16W

13.8V DC 0.8A (with optional DCK-1)

Power Requirements: 100/120/220/240V AC, 50/60 Hz

13.8V DC (with optional DCK-1)

Dimensions: 299 (12.0) W × 110 (4.4) H × 200 (8.0) D mm (inch)

Weight: 4.5 kg (9.9 lbs.)

NOTE: Circuit and ratings may change without notice due to development in technology.

(K.W.M) 811140 ① G Printed in Japan

A product of
TRIO-KENWOOD CORPORATION
 17-5, 2-chome, shibuya, shibuya-ku Tokyo 150, Japan

TRIO-KENWOOD COMMUNICATIONS
 1111 West Walnut Street, Compton, California 90220 U.S.A.
TRIO-KENWOOD COMMUNICATIONS, GmbH
 D-6374 Steimbach TS, Industriestrasse 8A, West Germany
TRIO-KENWOOD ELECTRONICS, N.V.
 Leuvensesteenweg 504, B-1930 Zaventem, Belgium
TRIO-KENWOOD (AUSTRALIA) PTY. LTD.
 4E Woodcock Place, Lane Cove N.S.W. 2066, Australia