

 **KENWOOD**

**COMMUNICATIONS  
RECEIVER**

**R-1000**



The R-1000 is a high class general coverage receiver covering 30 bands from 200kHz to 30MHz with a PLL synthesizer that incorporates a variety of KENWOOD's sophisticated electronic technology acquired over many years.

Both a digital display readout (1kHz step) and analog dial are provided for more convenient operation.

The R-1000 also boasts a quartz digital clock with timer, 3-stage IF filters, RF ATT and TONE control, etc. to make the best receiving conditions for each mode.

Due consideration has been given to innovative design and compactness, making the R-1000 an indispensable sub station for amateur radio operators, semi professionals, BCL's and SWL's, etc.

#### **PLL synthesizer covers 30 bands from 200 kHz to 30 MHz**

The R-1000 is a high class general coverage receiver covering 30 bands from 200 kHz to 30 MHz with use of a highly reliable VFO at 1 MHz step from LW (long wave) to SW (short wave). The R-1000 is a high performance receiver for monitoring domestic as well as overseas broadcasts, amateur communications, 27 MHz CB band and marine communications, etc.

#### **Simple operation**

Only practical controls are employed so that anybody can operate the R-1000 easily. This simple operation is made possible due to sophisticated circuit technology. Both a digital display (1 kHz step) and analog dial are provided with use of highly exact gear dial mechanism for easy reading.

#### **Refined style and Compactness**

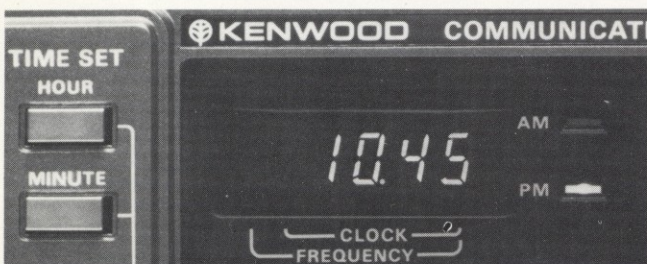
The R-1000 has an innovative style in a chic metallic gray case and a front panel with ideal control assignment. The most frequently used controls are aligned conveniently. Extra provisions usually put on the rear panel, are provided on the slant to save depth, making it easy to place it on a bookshelf.

#### **Large 10 cm built-in speaker**

A wide range low distortion speaker is installed on the upper part of the case. Ideal frequency characteristics (enough for music as well) and sound volume are obtained. A high tonal quality external speaker SP-100 is also available for manias.

#### **Built-in quartz digital clock with timer**

A 12-hour type highly exact digital clock with AM or PM indication is built into the R-1000, so that you can check receiving time, scheduled listening of DX broadcast stations and enjoy absent recording with use of the timer.



#### **Ideal 3-stage IF filters for receive mode**

Wide range for AM with emphasis on tonal quality, and rather narrow range for DX reception. An IF filter is employed for narrower range for amateur communications, SSB professional communications, etc. to meet every mode without interference.

#### **Built-in Noise Blanker**

A NB is built in to shut off ignition noise and a various pulse type noise. The noise blanker is the type, which is usually used only in more expensive SSB transceivers. It is quite efficient for shutting off pulse type noise in RF circuits with no adverse effect on tonal quality.

#### **RF attenuator in antenna circuit**

An attenuator of 20, 40 and 60 dB is employed to protect the unit from damage by high input power (high power broadcasts, etc.). This is quite effective to improve S/N of relatively strong signals and in listening to DX stations at night.

#### **Changeable light intensity**

A dimmer switch is installed to adjust the light intensity of the dial and S meter for easier reading at night.

#### **Tone control**

Desired tonal quality is available, depending upon your taste and program.

#### **Recording terminal**

Recording terminal, which one provided as standard levels for direct recording on most recorders, are installed on the front panel for easy and quick recording.

#### **Selectable AC power Voltage**

Multi-voltage type (100, 120, 220 or 240V) AC power circuit is employed.

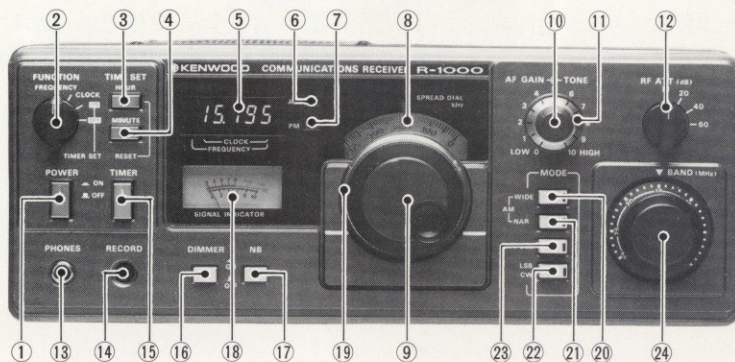
#### **Changeable antennas terminals**

Wire antenna terminals for 200 kHz to 2 MHz. For 2 MHz to 30 MHz both wire antenna and doublet or loop antenna with use of coaxial cable. A desired antenna can be switched on.

#### **Accessory terminals**

Relay circuit for timer and muting circuit are also used via output provisions.

## FRONT PANEL VIEW



### 1 POWER Switch

This switch controls power to the R-1000. The digital clock operates continuously even when the power switch is OFF.

### 2 FUNCTION Switch

This switch selects the digital display functions.

FREQUENCY ..... Frequency is displayed accurate to the 1 kHz order.

CLOCK ..... Time is displayed in 12-hour format.

TIMER SET "ON" ..... The timer operates to indicate turn-on time.

TIMER SET "OFF" ..... The timer operates to indicate turn-off time.

### 3 HOUR Switch

This is used for setting time (in hours) for both the clock and the timer.

### 4 MINUTE Switch

This is used for setting time (in minutes) for both the clock and the timer.

### 5 Digital Display

The digital display unit indicates operating frequency and time.

### 6 AM Indicator

This lights to indicate the time being set is AM.

### 7 PM Indicator

This lights to indicate the time being set is PM.

### 8 Main Dial

This analog dial is calibrated at 10 kHz intervals from 0 to 1,000 kHz.

### 9 Main Tuning Knob

This selects the receiver's operating frequency. First select the frequency in MHz by the BAND Switch, then the frequency in kHz by the Main Tuning.

### 10 AF GAIN Control

This varies the audio output. Turning clockwise will increase the volume.

### 11 TONE Control

This adjusts high frequency tone quality.

### 12 RF ATT (Attenuator) Switch

This switch allows precise input signal attenuation in three steps; 20 dB, 40 dB and 60 dB.

### 13 PHONES Jack

This jack accepts 4 to 16 ohm impedance headphones.

### 14 RECORD Jack

Output for connecting a tape recorder. This permits recording of received signals. The output level of the AF GAIN is independent.

### 15 TIMER Switch

This switch turns the timer ON.

### 16 DIMMER Switch

This reduces the light intensity of the Digital Display, meter and dial when the receiver is operated in the dark.

### 17 NB (Noise Blanker) Switch

Turn ON to reduce pulsating, ignition-type noises.

### 18 Meter

Indicates received signal strength.

### 19 Dial Calibrate Knob

Use this to calibrate the Main Dial.

### 20 AM-WIDE Switch

With the MODE Switch in this position, bandwidth is broad, improving the tone quality of AM reception.

### 21 AM-NARROW Switch

Use this position when interference is present at the AM-WIDE setting. Bandwidth is NARROW, reducing interference for easier AM reception.

### 22 LSB/CW Switch

This switch is used to receive SSB (LSB) or Morse signals.

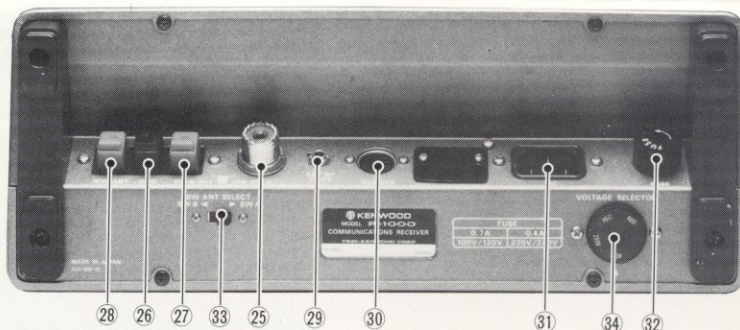
### 23 USB Switch

This switch is used to receive SSB (USB) signals.

### 24 BAND Switch

Use this switch to select the frequency band in MHz calibration is from 0 to 29 at 1 MHz intervals.

## REAR PANEL VIEW



### 25 Antenna Connector (SW A)

Connect a 50-75 ohm coaxial cable with UHF connector.

### 26 GND Terminal

Ground Terminal.

### 27 Antenna Connector (SW B)

Connect a high impedance long wire antenna when the received frequency is higher than 2 MHz.

### 28 MW ANT Connector

Connect a high impedance long-wire antenna when the received frequency is lower than 2 MHz.

### 29 EXT SP Jack

For connection of an external speaker SP-100.

### 30 REMOTE Connector

Various control signals are available at this connector for operating the timer relay ON/OFF circuit and muting circuit.

### 31 AC Connector

Connect the supplied AC power cable.

### 32 FUSE

AC power fuse.

### 33 SW ANT SELECT Switch

Set this switch to SW A when the received frequency is higher than 2 MHz. Set it to SW B when the frequency is lower than 2 MHz.

### 34 VOLTAGE SELECTOR

AC voltage selector switch.



**SP-100**

**R-1000**

## OPTIONAL ACCESSORIES

### SP-100

#### External Speaker



- Frequency Range: 200 Hz – 10 kHz
- Input Impedance: 8 ohms
- Max. Input Power: 1.5 Watts
- Speaker Diameter: 100 (3-15/16) mm (inch)
- Dimensions: 149 (5-7/8)W x 115 (4-1/2)H x 211 (8-15/16) D mm (inch)
- Weight: 1.5 kg (3.3 lbs)

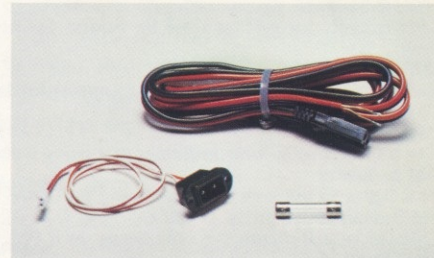
### HS-5

#### Deluxe Headphones (8Ω)



### DCK-1

#### The DCK-1 is the DC Power Cable kit for DC operation of the R-1000.



## R-1000 SPECIFICATIONS

Frequency range .....	200 kHz – 30.0 MHz
Mode .....	AM, SSB, CW
Sensitivity (S + N/N 10 dB or more):	
200 kHz – 2 MHz	SSB                      AM 5 μV                      20 μV
2 MHz – 30 MHz	0.5 μV                      2 μV
Image Ratio .....	More than 60 dB
IF Rejection .....	More than 70 dB
Selectivity:	
AM (WIDE)	12 kHz at –6 dB, 25 kHz at –50 dB
AM (NARROW)	6 kHz at –6 dB, 18 kHz at –50 dB
SSB/CW	2.7 kHz at –6 dB, 5 kHz at –60 dB
Frequency Stability:	
±2 kHz max. from 1 to 60 minutes after power on	
±300 Hz max. in every subsequent 30 minutes	
Antenna Impedance .....	MW 200 kHz – 2 MHz, 1 kΩ (unbalanced)
	SW A 2 MHz – 30 MHz, 50Ω (unbalanced)

SW B	2 MHz – 30 MHz, 1 kΩ (unbalanced)
Audio Output .....	1.5W min. (8Ω load, 10% distortion)
Audio Load Impedance .....	4 – 16Ω, external speaker or headphone
Power Consumption .....	20W
Power Requirements .....	100, 120, 220, 240 VAC, 50/60 Hz
Semiconductors .....	40 ICs, 11 FETs, 63 transistors, 71 diodes, 1 display tube
Dimensions .....	300 (12-3/4)W x 115 (4-1/2)H x 218 (8-9/16)D mm (inch)
Weight .....	5.5 kg (12.1 lbs)

### CLOCK SECTION

Type .....	Quartz
Accuracy .....	±15 seconds max. per month

**NOTE:** The circuit and ratings may change without notice due to developments in technology.

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