

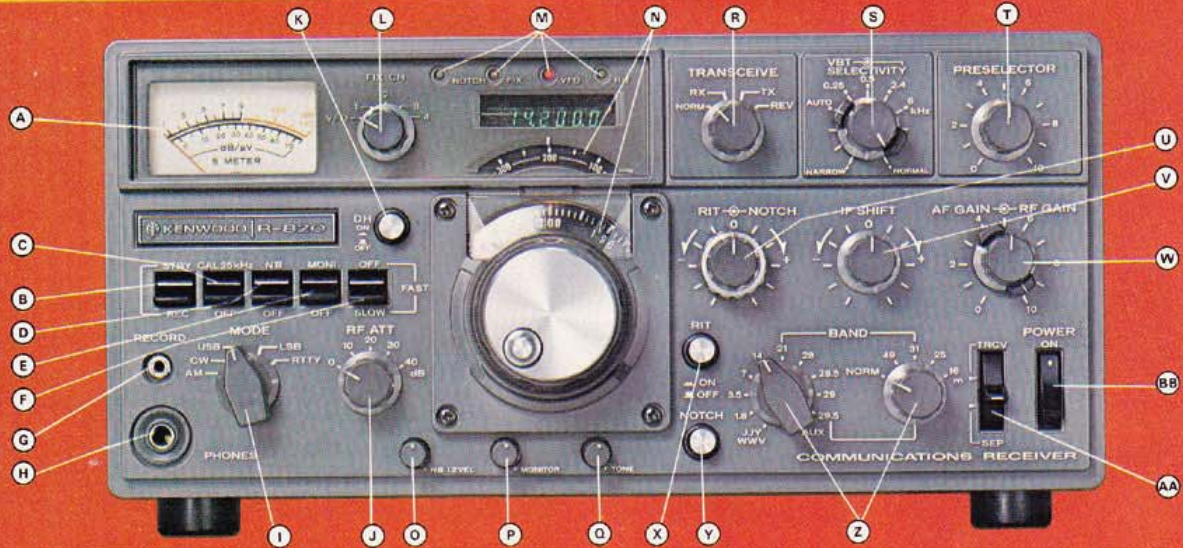


INTRODUCING THE ULTIMATE IN RECEIVER DESIGN ... THE KENWOOD R-820

With more features than ever before available in a ham-band receiver. This triple-conversion (8.33 MHz, 455 kHz, and 50 kHz IFs) receiver, covering all Amateur bands from 160 through 10 meters, as well as several shortwave broadcast bands, features digital as well as analog frequency readouts, notch filter, IF shift, variable bandwidth tuning, sharp IF filters, noise blanker, stepped RF attenuator, 25 kHz calibrator, and many other features, providing more operating conveniences than any other ham-band receiver. The R-820 may be used in conjunction with the Kenwood TS-820 series transceiver, providing full transceive frequency control.

R-820

- A S-METER** Easy-to-read, calibrated to S9 - 40 dB full scale and dB/μV
- B STANDBY/RECEIVE SWITCH** Disables audio circuits during transmit mode with associated transmitter.
- C CALIBRATOR SWITCH** Built-in crystal calibrator, settable to WWV, provides signal every 25 kHz
- D NOISE-BLANKER SWITCH** A specially designed crystal filter eliminates noise pulses such as ignition-noise interference.
- E MONITOR SWITCH** RF sampling allows user to hear his own voice when using associated transmitter.
- F AGC SWITCH** Automatic gain control circuit switchable to slow or fast response, or completely off.
- G RECORD JACK** Makes recording off the air simple.
- H HEADPHONE JACK** Provision for plugging in headphones.
- I MODE SWITCH** Selection of AM, CW, upper or lower sideband, or RTTY.
- J RF-ATTENUATOR SWITCH** 10 dB steps of attenuation from 0 to 40 dB, to prevent overloading from nearby stations, and for precise signal comparison.
- K DIGITAL HOLD** Locks counter and display while VFO is tuned to another frequency. Helps return to "hold" frequency.
- L VFO/CRYSTAL SWITCH** Permits VFO control or crystal control on four selectable frequencies.
- M LED INDICATORS** Light-emitting diodes indicate activation of notch filter, crystal-controlled reception, VFO control, and RIT.
- N DRS DIAL** Satin-smooth VFO tuning dial system provides easy analog frequency readout (useful when digital hold is activated). LSB, USB, and CW frequencies are accurately read from the same pointer.
- O NOISE-BLANKER LEVEL CONTROL** Controls level of blanking, for maximum effect in eliminating noise interference.
- P MONITOR CONTROL** Adjusts level of RF sampling.
- Q TONE CONTROL** Varies audio-output frequency response.
- R TRANSCIVE SWITCH** Selects frequency tuning from either the receiver or TS-820 series transceiver.
- S VBT/SELECTIVITY CONTROLS** Separate controls on the same shaft provide variable bandwidth tuning as well as selection of four IF filters: 250 Hz*, 500 Hz*, 2.4 kHz, and 6 kHz* (*optional). CW filters function in 455-kHz IF for superior shape factor.
- T PRESELECTOR** Peaks tuned circuits in RF amplifier stage for increased selectivity and sensitivity. RF amplifier coil is dual-tuned.
- U RIT/NOTCH CONTROLS** RIT allows receiver to be tuned off frequency, while not affecting transmit frequency, when in transceive mode with TS-820. Notch control tunes notch within IF passband for eliminating interference. Notch frequency remains the same, even when IF shift is utilized.



- V IF SHIFT** Varies (shifts) IF passband away from interfering signal.
- W AF GAIN/RF GAIN** Separate controls adjust volume and RF gain.
- X RIT SWITCH** Allows tuning off frequency with RIT control, and return immediately to VFO frequency by pushing switch.
- Y NOTCH SWITCH** Takes variable notch filter in and out of circuit.
- Z BAND SWITCHES** Selects frequency bands from 15 MHz (WWV), 160 through 10 meters, the 49, 31, 25, and 16-meter shortwave broadcast bands, and an auxiliary band.
- AA TRANSCIVE/SEPARATE SWITCH** Enables receiver VFO to control the receiver and TS-820 (or TS-820S) frequency (or the TS-820 VFO to control both), or both can function independently.
- BB POWER SWITCH** Turns receiver on and off.

R-820 PERFORMANCE SPECIFICATIONS

Frequency Range:
 160 meters (1.8-2.0 MHz)
 80 meters (3.5-4.0 MHz)
 40 meters (7.0-7.5 MHz)
 20 meters (14.0-14.5 MHz)
 15 meters (21.0-21.5 MHz)
 15 meters (21.0-21.5 MHz)
 10 meters (28.0-28.5 MHz)
 10 meters (28.5-29.0 MHz)
 10 meters (29.0-29.5 MHz)
 10 meters (29.5-30.0 MHz)
 15 meters (15.0 (WWV)-15.5 MHz)
 49 meters (5.9-6.4 MHz)
 31 meters (9.4-9.9 MHz)
 25 meters (11.5-12.0 MHz)
 16 meters (17.7-18.2 MHz)
 Auxiliary band

Modes: AM, CW, USB, LSB, RTTY

Sensitivity: 160-10 m, 19 m, SSB 0.25 μV at 10 dB S+N/N
 AM, 1.5 μV at 10 dB S+N/N
 49, 31, 25, 16 m, SSB 0.5 μV at 10 dB S+N/N
 AM 3.0 μV at 10 dB S+N/N

Selectivity: CW (with optional 250-Hz filter), 250 Hz (-6 dB), 500 Hz (-80 dB)
 CW (with optional 500-Hz filter), 500 Hz (-6 dB), 850 Hz (-80 dB)
 SSB (2.4-kHz filter), 2.4 kHz (-6 dB), 4.4 kHz (-80 dB)
 AM (6-kHz filter), 6 kHz (-6 dB), 12 kHz (-80 dB)

Image Ratio: 160-10 m, 19 m, 80 dB
 49, 31, 25, 16 m, 60 dB

IF Rejection: 160-10 m, 19 m, 90 dB
 49, 31, 25, 16 m, 50 dB

Power Requirements: 100/120/220/240 VAC, 50/60 Hz, or 12-15 VDC
 Dimensions: 13-1/8" (333 mm)W x 6" (153 mm)H x 13-3/16" (335 mm)D
 Weight: 26.4 lbs (12 kg)