



Technical Data

TYPE 965 RECEIVER



The CEI Type 965 Receiver is designed for AM, FM, and CW reception in the frequency range of 10 to 90 mc. This frequency range is covered in two bands: 10 to 30 mc, and 30 to 90 mc. Separate RF tuners are used for each band. Three IF bandwidths are available: 10 kc, 50 kc, and 200 kc. The desired IF bandwidth is selected by means of a front-panel switch. A beat frequency oscillator for CW reception is available in all three bandwidth positions. Signal outputs from the receiver are audio output, video output, IF output, and an output to operate a signal monitor. The audio output is available at a front-panel phones jack, and at a terminal strip on the rear apron of the receiver. Nuvistor-type tubes are used in the two RF tuners. All other active elements are transistors.

SPECIFICATIONS

Type of Reception	AM-FM-CW
Frequency Range	10-90 mc in two bands: Band A, 10-30 mc; Band B, 30-90 mc
Input Impedance	50 ohms, nominal
Noise Figure	Band A, 8.0 db, maximum; Band B, 4.5 db, maximum
IF Frequency	21.4 mc
IF Bandwidths	10 kc, 50 kc, or 200 kc, selectable from front panel
IF Rejection	Band A, 50 db, minimum; Band B, 54 db, minimum
Oscillator to Antenna Conduction	Band A, 15 μ v, maximum; Band B, 15 μ v, maximum
Sensitivity	
10-kc IF Bandwidth	AM: 1.0 μ v input, modulated 50% at 1 kc rate produces 10 db (s plus n)/n, minimum
50-kc IF Bandwidth	AM: 2.3 μ v input, modulated 50% at 1 kc rate produces 10 db (s plus n)/n, minimum
	FM: 2.0 μ v input, modulated at 1 kc rate with 17 kc deviation produces 21 db (s plus n)/n, minimum

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Sensitivity - (Cont'd)

200-kc IF Bandwidth	AM: 4.7 μ v input, modulated 50% at 1 kc rate produces 10 db (s plus n)/n, minimum FM: 4 μ v input, modulated at 1 kc rate with a 70 kc deviation produces 21 db (s plus n)/n, minimum
Image Rejection	Band A, 60 db minimum; Band B, 60 db minimum
Audio Output Power	100 milliwatts, minimum, into 600-ohm load, balanced or unbalanced
Audio Response	Within 3 db from 100 cps to 40 kc
Video Output	5 volt, rms, across a 10K-ohm load
Video Response	Within 3 db from 50 cps to 150 kc
IF Output	21.4-mc center frequency output; output level 100 mv into 50 Ω load for input signal levels above AGC threshold
Signal Monitor Output	21.4-mc center frequency IF signal output
Output Stability with AGC	AM: Output varies less than 3 db for input levels from 4 μ v to 10 mv FM: Output varies less than 3 db for input levels above 1.5 μ v
BFO	Variable \pm 20 kc
Power Input	115 vac, 50-400 cps
Power Consumption	20 watts, approximately
Weight	17 pounds, approximately
Dimensions	19 inches wide x 3.5 inches high x 15.5 inches deep

PRICE: \$2,900.00

FOB Rockville, Maryland. Taxes extra where applicable. Price and specifications subject to change without notice.