



AN/FRR-12

Figure 7. Radio Receiving Set AN/FRR-12.

Status: Standard. *Stock No.:* 2S2001-12 *Reference:* TM 11-896.

Radio Receiving Set AN/FRR-12 consists of a standard Rack MT-660/FRR-12, two Radio Receivers R-270/FRR, and two Power Supply Units RA-74-D. It is a fixed-station set primarily designed for dual diversity reception of radio teletypewriter signals in order to avoid the effects of fading.

The two superheterodyne Radio Receivers R-270/FRR operate independently of each other from two separate antennas suitably spaced.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE:

- Band 1: 1.25 to 2.5 mc.
- Band 2: 2.25 to 5.0 mc.
- Band 3: 5.0 to 10.0 mc.
- Band 4: 10.0 to 20.0 mc.
- Band 5: 20.0 to 40.0 mc.

Operation above 30 mc under certain conditions only.

NUMBER OF CRYSTALS: 4 in each receiver.

PRESET FREQUENCIES: None.

ANTENNA: Rhombic or doublet receiving.

FREQUENCY CONTROL: Crystals in any 3 channels of the frequency range of 1.5 to 26 mc.

POWER SOURCE: Power Supply Unit RA-74-D; 95/105/117/130/190/210/234/260-v, single-phase, 25- to 60-cyc, 180-w ac.

RANGE: Long.

NUMBER OF TUBES: 38. (17 in each receiver; 2 in each power supply unit.)

GENERAL APPLICATION

USE: Dual diversity reception of radioteletypewriter signals.

TO COMMUNICATE WITH:

Radio Sets AN/MRC-2 and AN/MRC-2A.

Radio Transmitters T-172/FR, BC-339, T-177/FR, BC-401, BC-610, T-4/FRC, T-158/FRT, T-158A/FRT, T-158B/FRT.

Radio Transmitting Equipment RC-52.

Radio Transmitting Assemblies OA-60/FRT, OA-60A/FRT, OA-60B/FRT, and other transmitting equipments within frequency range.

INSTALLATION: Fixed station.

TYPE OF SIGNAL: Frequency-shift radioteletypewriter.

PRINCIPAL COMPONENTS

<i>Name</i>	<i>Dimensions (in.)</i>	<i>Weight (lb)</i>
2 Radio Receivers R-270/FRR	14½ x 16¾ x 19	60½
2 Power Supply Units RA-74-D	10½ x 10¼ x 19	60½
1 Rack MT-660/FRR-12	76 x 18 x 22	230

WEIGHT AND VOLUME

	<i>Unpacked</i>	<i>Export pack</i>
Total weight (lb)	472	939
Total volume (cu ft)	23.9	44.6
Ship tons		1