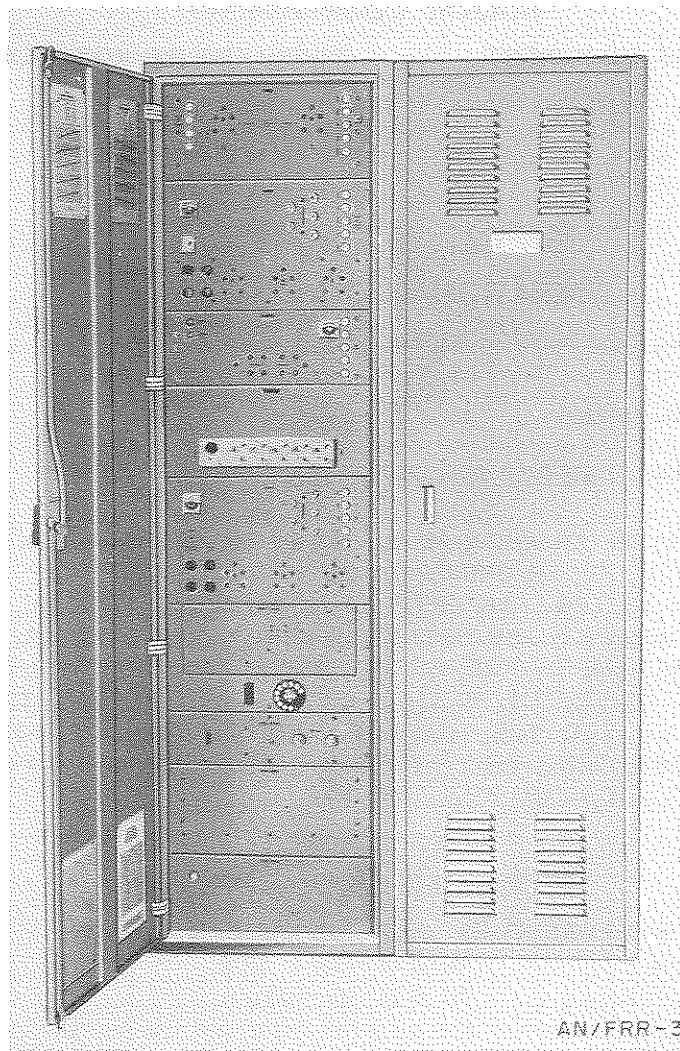


STATUS: Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Army, Navy
DATE OF THIS SHEET: 2 Jan 52

AN/FRR-3

DIVERSITY RECEIVING EQUIPMENT



AN/FRR-3

Diversity Receiving Equipment AN/FRR-3 is an h-f, a-m (voice and frequency-shift-keying) radio receiving equipment used in long-range, point-to-point communication to overcome the effects of radio fading. It is used as fixed plant equipment at Air Force weather stations and for similar applications.

This equipment consists essentially of two identical superheterodyne radio receivers, which operate from separate antennas, and an h-f oscillator common to both receivers. Its output can be fed to Radioteletype Terminal Equipment AN/FGC-1.

It is equipped with a telephone dial which may be used to turn the equipment on or off and to select any of five preset frequency channels or any combination of four antennas.

AN/FRR-3	INSTRUCTION LITERATURE: TM 11-872
	CLASSIFICATION OF EQUIPMENT: Unclassified
DIVERSITY RECEIVING EQUIPMENT	USING SERVICE: Army, Navy
	DATE OF THIS SHEET: 2 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Power supply unit	7-1/2 x 13-5/8 x 18-3/4	61.75
1	Receiver B unit	12-1/4 x 13-3/4 x 18-3/4	46.00
1	Receiver A unit	12-1/4 x 13-3/4 x 18-3/4	46.00
1	Antenna unit	8-3/4 x 13-5/8 x 18-3/4	35.00

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Fixed plant installation, Air Force weather stations.

INSTALLATION: Fixed station.

APPROXIMATE RANGE (IN MILES): Extended.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -21, -25; AN/ART-13; AN/CRT-3; AN/FRC-10; AN/FRT-5, -6, -15, -17, -18; AN/GRC-9, -13, -26; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7, -19, -20; AN/SRT-4; AN/TRQ-1; AN/URT-2, -3, -4; AN/VRC-1, -4; BC-191, -339, -401, -447, -610; MBS; MQ; OA-60A/FRT, -60B/FRT; RC-52; SCR-177, -188, -193, -274, -281, -399, -499, -506, -536, -543, -585, -694; T-4/FRC, -83/SR, -158/FRT, -159/FRT, -171/FR, -172/FR, -173/FR, -174/FR, -175/FR, -177/FR, -180/FR; TBA; TBC; TBK; TBL; TBM; TBN; TBO; TBU; TBW; TBX; TCB; TCC; TCE; TCH; TCK; TCP; TCS; TCZ; TDE; TDF; TDH; TDN; TDO; TEB; TEC; TEF; Collins 18S-4 (AF Model); Collins 32V-2; Fisher TS 25-3; Marconi TH-41-B; Westinghouse Type MW; Wilcox 96D, 99A.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 2.4 - 23.0, in 5 bands.

- Band 1: 2.4 - 4.2.
- Band 2: 4.2 - 6.9.
- Band 3: 6.9 - 11.2.
- Band 4: 11.2 - 17.5.
- Band 5: 15 - 23.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice and frequency shift (radioteletype).

POWER REQUIREMENTS: 100-130 v, 50/60 cyc or 400 w, 200-260 v, 50/60 cyc ac.

PHYSICAL CHARACTERISTICS

Diversity Receiving Equipment AN/FRR-3 measures 85 x 22-1/2 x 17 inches, net weight 366.5 pounds, volume 29.19 cu ft. Packed for domestic shipment: total weight 800 pounds, total volume 53.8 cu ft, 1.35 ship tons. Shipped in 3 packages. Packed for export shipment: total weight 1,146 pounds.