

STATUS: Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army, Navy

DATE OF THIS SHEET: 30 Jan 52

**AN/FRR-TYPE**

AN/COMP TYPE NUMBER:

R-274/FRR

RADIO RECEIVER



Radio Receiver R-274/FRR is a medium-, high-, and very-high-frequency a-m (voice, tone and cw) receiving equipment used for communication and special applications in fixed plant and similar installations.

This equipment consists of a single radio receiver component having a built-in power supply which is mounted on a panel for rack mounting. It requires additional equipment for reproduction of audio signals.

Carrier shift signals can be fed to appropriate teletype terminal equipment or to Dual Diversity Converter CV-31/TRA-7 and similar units. Provision is made for use of the audio end of this radio receiver alone, and for stand-by operation when used in conjunction with radio transmitting equipment.

It operates with a balanced doublet or single-wire antenna.

There are three models of this equipment; R-274/FRR is constructed according to military specification and is interchangeable with R-274A/FRR, (not illustrated), which is a commercial (Hammarlund SP-600-JX-1) communication type receiver; also used as part of Navy Radio Set AN/GRR-8.

R-274/FRR is a commercial (Hammarlund SP-600-JX-6) equipment procured by the Navy.

<b>AN/FRR-TYPE</b>		INSTRUCTION LITERATURE: TM 11-897
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**MAJOR COMPONENTS**

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
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(Equipment consists only of a single major operating component.)

**OPERATIONAL CHARACTERISTICS****TACTICAL USE:** Mobile and fixed radio security teams, fixed plant.**INSTALLATION:** Ground, semipermanent or fixed station.**APPROXIMATE RANGE (IN MILES):** Long.

**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, -19; AN/GRC-9, -13, -26; AN/HRC-2, -6, -16, -20, -22; AN/PRC-7, -19, -20; AN/SRT-4; AN/TRQ-1; AN/URT-2, -3, -4, -10; AN/VRC-1, -4; AN/VRT-1; BC-191, -339, -365, -401, -447, -610; MBS; MQ; OA-60A/FRT, -60B/FRT; RC-52; SCR-177, -188, -193, -274, -281, -309, -499, -506, -536, -543, -585, -694; T-4/FRC, -5/FRC, -83/SR, -158/FRT, -159/FRT, -171/FR, -172/FR, -173/FR, -174/FR, -175/FR, -177/FR, -190/FR; TAB; TAJ; TAQ; TBA; TBC; TBK; TBL; TBM; TBN; TBO; TBU; TBW; TBX; TBY; TCB; TCC; TCE; TCH; TCK; TCP; TCS; TCZ; TDD; TDE; TDF; TDH; TDN; TDO; TEB; TEC; TEF; Collins 18S-4 (AF Model); 32V-2; Fisher TS 25-3; Marconi TH-41-B; Westinghouse Type MW; Wilcox 96D, 99A.

**TECHNICAL CHARACTERISTICS****FREQUENCY RANGE IN MEGACYCLES:** 0.54 - 54.0 in 6 bands.

Band 1: 0.54 - 1.27

Band 3: 3.0 - 7.0

Band 5: 13.8 - 29.7

Band 2: 1.27 - 3.0

Band 4: 7.0 - 13.8

Band 6: 29.7 - 54.0.

**TYPE MODULATION:** Am.**TYPE OF SIGNAL:** Cw, icw, mcw (voice or tone), carrier shift radioteletype.**POWER REQUIREMENTS:** 120 w, 95 - 130 and 190 - 260-v, 50/60 cyc, 1 phase, ac.**PHYSICAL CHARACTERISTICS**

Radio Receiver R-274/FRR measures 10-1/2 x 16-3/4 x 19 inches, net weight 58 pounds, volume 2.04 cu ft. Packed for export shipment: total weight 105 pounds, total volume 4.64 cu ft. Shipped in 1 package.