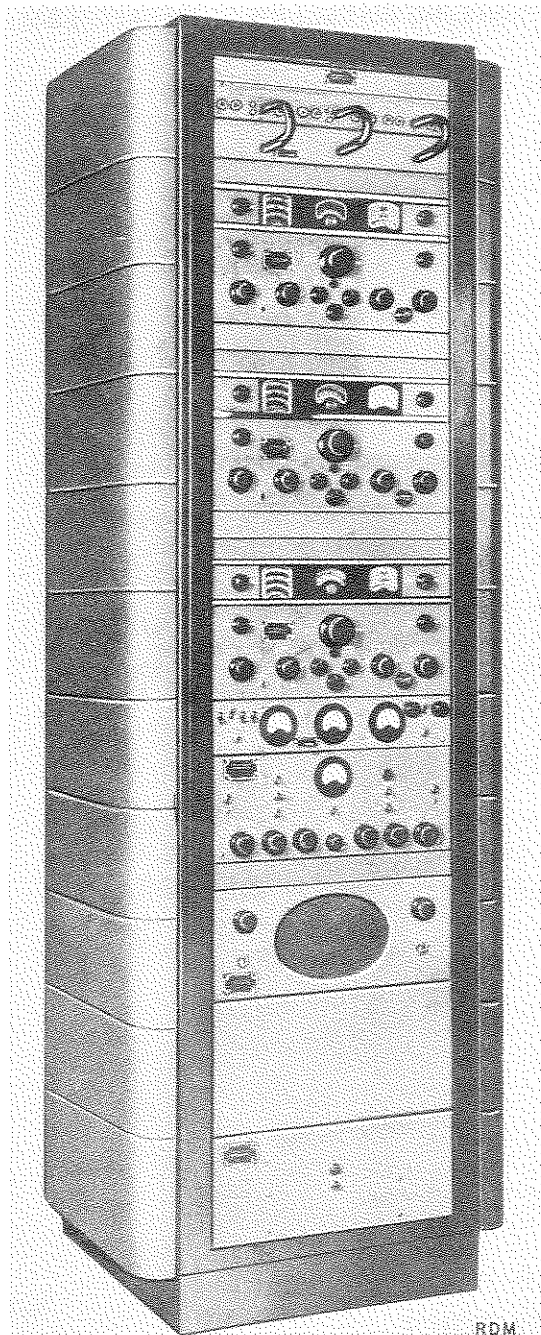


STATUS: Substitute Standard  
 CLASSIFICATION OF EQUIPMENT: Unclassified  
 USING SERVICE: Navy  
 DATE OF THIS SHEET: 29 Apr 52

# AN/FRR-TYPE

SERVICE TYPE NUMBER: RDM, RDM-1  
 DIVERSITY RADIO RECEIVING EQUIPMENT



Diversity Radio Receiving Equipments RDM and RDM-1 are designed for the reception of either continuous wave or modulated carrier signals within the medium- and high-frequency ranges. They automatically select and deliver the strongest of three signals picked up by three space diversity antennas.

This equipment is complete except for the diversity antenna system and a set of high impedance headphones.

All major components are mounted in a rack-type cabinet.

Model RDM is supplied with cabinet, rack, and panel assembly which includes the antenna panel.

The RDM-1 is supplied with a cabinet and an antenna panel, as two separate components.

Complete system flexibility is provided in both models, through the use of three receivers, tone keyer unit, and monitoring unit.

**AN/FRR-TYPE**

INSTRUCTION LITERATURE:  
NavShips 91061, 95261  
CLASSIFICATION OF EQUIPMENT: Unclassified  
USING SERVICE: Navy  
DATE OF THIS SHEET: 29 Apr 52

RDM, RDM-1

:SERVICE TYPE NUMBER

DIVERSITY RADIO RECEIVING EQUIPMENT

**MAJOR COMPONENTS**

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
3	Radio Receiver CRV-46256-A, -46256-B	11 x 19 x 19-1/4	98
1	Tone Keyer CALO-35049, -35049-A	7 x 19 x 10-1/2	26
1	Monitoring Unit CALO-23424, -23424-A	Not Available	11
1	Monitoring Unit Power Supply CALO-20289, -20289-A	7 x 19 x 6-1/2	18
1	Speaker CALO-49526, -49526-A	8-3/4 x 19 x 4-3/4	12

**OPERATIONAL CHARACTERISTICS**

TACTICAL USE: Shore stations.

INSTALLATION: Ground.

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/MRC-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, -399, -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, -180/FR; TAB; TAJ; TAO; 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 13S-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: 0.535 - 32.0 in 6 bands.

Band 1: 0.535 - 1.6

Band 3: 4.45 - 12.15

Band 5: 16.1 - 22.7

Band 2: 1.57 - 4.55

Band 4: 11.9 - 16.6

Band 6: 22.0 - 32.0

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, mcw, voice.

POWER OUTPUT: Tone keyer: 12 mw, 600 ohms.

Receiver: 2.5 w, 600 ohms and 2.5 ohms.

POWER REQUIREMENTS: 450 w, 100-165/190-260 v, 50/60 cyc, 1 phase, ac.

**PHYSICAL CHARACTERISTICS**

Diversity Radio Receiving Equipments RDM, RDM-1 measure 84 x 22 x 21 inches, net weight 650  
pounds, volume 26.6 cu ft, 0.66 ship ton.