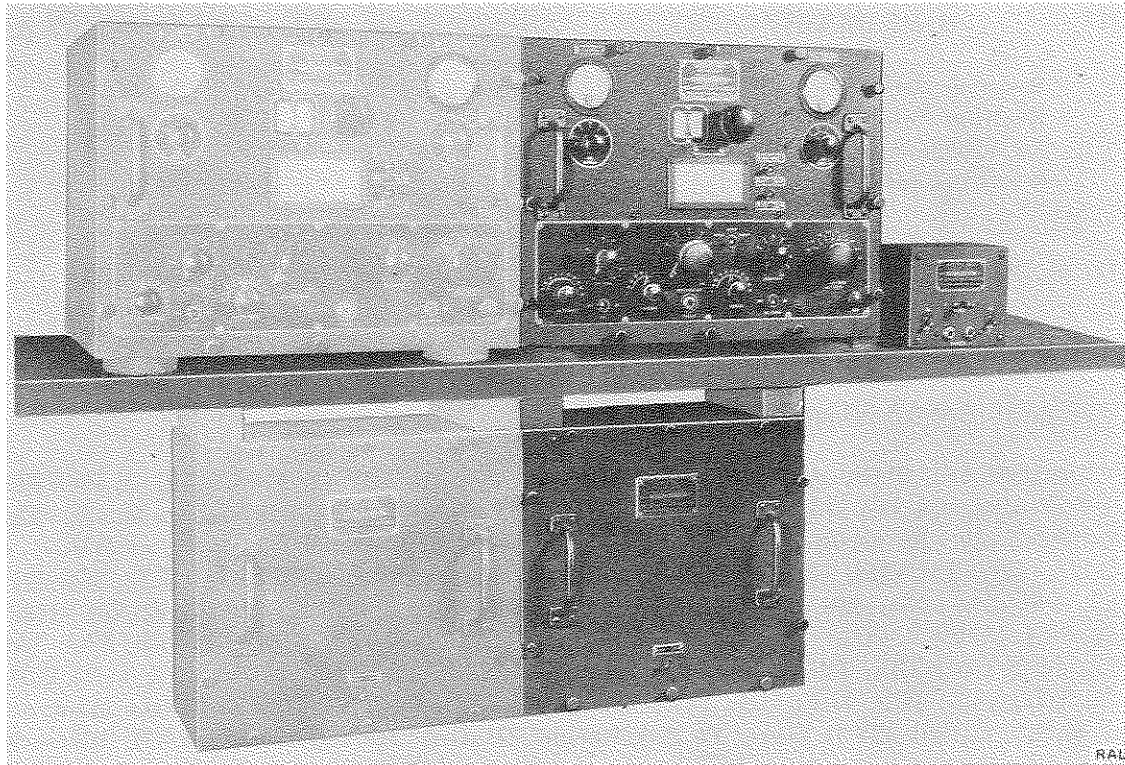


STATUS: Limited Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Navy
DATE OF THIS SHEET: 29 Mar 52

AN/URR-TYPE

SERVICE TYPE NUMBER: RAL, RAL-1 through -4
RADIO RECEIVING EQUIPMENT



Radio Receiving Equipments RAL and RAL-1 through -4 are general purpose radio receivers designed to receive radiotelegraph and voice signals within the frequency range 0.3 to 23.0 mc.

These receivers are essentially identical, but the RAL model is battery operated only.

They are often installed adjacent to an RAK (series) receiver to form a complete two-channel installation for guarding two frequencies simultaneously. A separate control unit is supplied with RAK-1 through -4 which permits this type of operation.

A 600-ohm headset and receiving antenna are required but not supplied.

Can be operated directly from batteries in an emergency.

AN/URR-TYPE		INSTRUCTION LITERATURE: IB-23900; -23900-1; -23900-2; -26679
RAL, RAL-1 through 4 : SERVICE TYPE NUMBER		CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO RECEIVING EQUIPMENT		USING SERVICE : Navy
		DATE OF THIS SHEET : 29 Mar 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Receiver Unit CRV-46045	13-5/16 x 18 x 16-3/4	69
1	Rectifier Power Unit CRV-20036, CRV-20036-A (supplied with RAL-1 through -4 only)	12-1/4 x 14 x 8-5/8	41

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shipboard or shore stations.

INSTALLATION: Shipborne, ground.

APPROXIMATE RANGE (IN MILES): Long.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -9, -21, -25; AN/ART-13; AN/CRT-3, -5; AN/FRC-10;
AN/FRT-5, -6, -15, -17, -18, -19; AN/GRC-9, -13, -26; AN/GRT-2; AN/MRC-2, -6, -16, -20, -22;
AN/PRC-7, -19, -20; AN/SRC-3; AN/SRT-1, -3, -4; AN/TRQ-1; AN/URT-2, -3, -4; AN/VRC-1, -4;
BC-191, -329, -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; TAQ;
TBA; TBC; TBK; TBL; TBM; TBN; TBO; TBU; TBW; TBX; TCB; TCC; TCE; TCH; TCK; TCP;
TCS; TCY; TCZ; TDD; TDE; TDF; TDH; TDK; 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: 0.3 - 23.0, in 9 bands.

Band 1: 0.3 - 0.49.

Band 4: 1.33 - 2.08.

Band 7: 5.5 - 8.8.

Band 2: 0.49 - 0.8.

Band 5: 2.08 - 3.4.

Band 8: 8.8 - 14.3.

Band 3: 0.8 - 1.33.

Band 6: 3.4 - 5.5.

Band 9: 14.3 - 23.0.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, icw, mcw, voice.

POWER OUTPUT: 170 mw.

POWER REQUIREMENTS: With ballast tube: 200 w, 115 v ($\pm 10\%$) 60 cyc, 1 phase.Without ballast tube: 60 w, 115 v ($\pm 10\%$) 60 cyc, 1 phase.

Battery operation: 12.6 w, 6.3 v and 8.1 w, 180 v.

PHYSICAL CHARACTERISTICS

Radio Receiving Equipment RAL or RAL-1 through -4 measures 26 x 18 x 16-3/4.