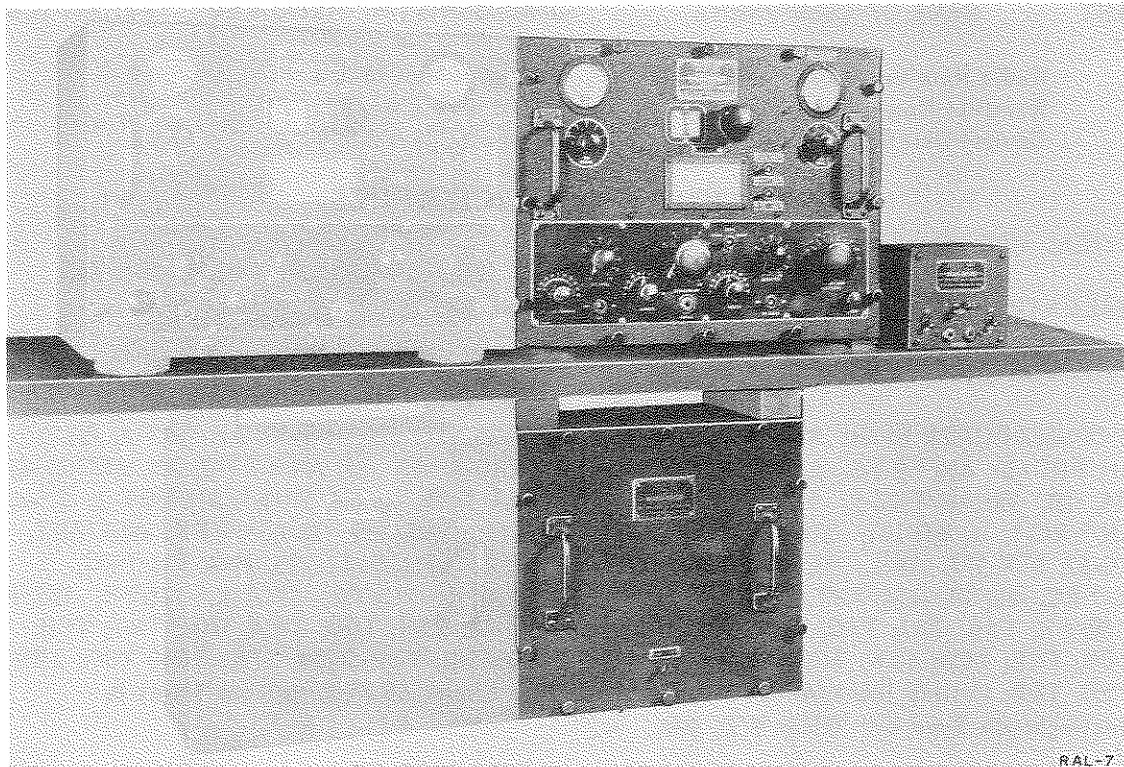


STATUS: Limited Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Navy
DATE OF THIS SHEET: 29 Mar 52

AN/URR TYPE

SERVICE TYPE NUMBER: RAL-7, -8
RADIO RECEIVING EQUIPMENT



Radio Receiving Equipments RAL-7 and RAL-8 are general purpose, tuned-radio-frequency receivers for receiving radiotelegraph and voice signals within the frequency range 0.3 to 23.0 mc.

This type of radio receiver is 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 which permits this type of operation.

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

Can be operated from batteries in an emergency.

AN/URR TYPE		INSTRUCTION LITERATURE: NavShips 900,480; 95234
RAL-7, -8	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	Radio Receiver CND-46156	13-5/16 x 18 x 16-3/4	69
1	Rectifier Power Unit CND-20131	12-1/4 x 14 x 8-5/8	42
1	Control Unit CND-23073	4-3/4 x 5-3/8 x 3-5/8	2

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shipboard or shore stations.

INSTALLATION: Shipborne.

APPROXIMATE RANGE (IN MILES): Long.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -9, -21, -25, -26; 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-7 or RAL-8 measures 26 x 18 x 16-3/4 inches, net weight 193 pounds, volume 4.7 cu ft. Packed for domestic shipment: total weight 304 pounds, total volume 16.9 cu ft. Shipped in 4 packages.