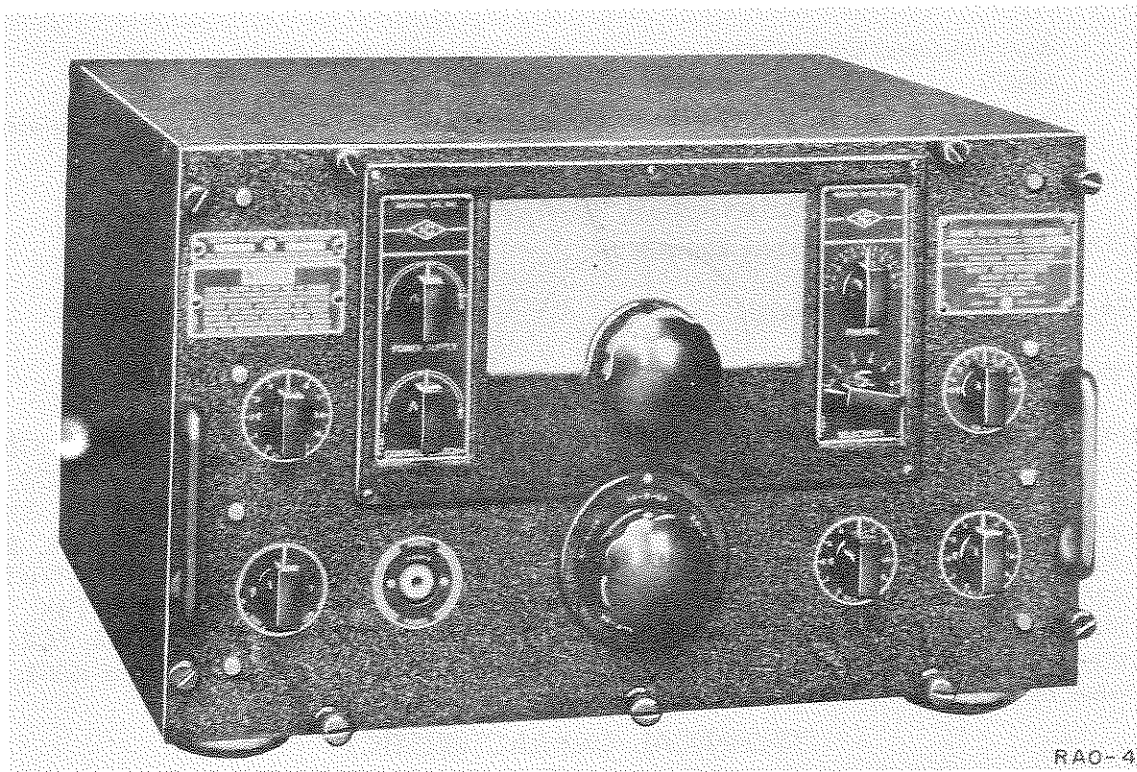


STATUS: Limited Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Navy
DATE OF THIS SHEET: 29 Mar 52

AN/URR-TYPE

SERVICE TYPE NUMBER: RAO-4, -5
RADIO RECEIVING EQUIPMENT



Radio Receiving Equipments RAO-4 and RAO-5 are general purpose receivers for receiving radiotelegraph or voice signals. Radiation of r-f power from the internal heterodyne oscillator has been reduced to less than 400 uuw at the antenna terminals.

These receivers are identical in design, with the exception of the a-f output circuit.

RAO-4 is supplied with a headset; RAO-5 is supplied with a loudspeaker. A receiving antenna is required but not supplied.

These receivers can be operated directly from batteries in an emergency.

AN/URR-TYPE		INSTRUCTION LITERATURE: NavShips 900,359 - 900,489
RAO-4, -5	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 CWQ-46187-B, -46229	10-21/32 x 17-3/16 x 17-1/4	75
1	Loudspeaker CJS-49493 (RAO-5 only)	8-5/8 x 8-1/4 x 5-1/8	Not Available

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shipboard or shore stations.

INSTALLATION: Shipborne, 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; 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); Collins 32V-2;
 Fisher TS 25-3; Marconi TH-41-B; Westinghouse Type MW; Wilcox 96D, 99A.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 0.54 - 30.0, in 5 bands.

Band 1: 0.54 - 1.30.

Band 4: 6.4 - 14.0.

Band 2: 1.3 - 2.8,

Band 5: 14.0 - 30.0.

Band 3: 2.8 - 6.4.

TYPE MODULATION: Am.

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

POWER OUTPUT: RAO-4: 0.3 w.

RAO-5: 0.015 for headset operation; 2.0 w for loudspeaker operation.

POWER REQUIREMENTS: 60 w, 115/230 v, 50/60 cyc, 1 phase.

Battery operation: 22 w, 6.3 v and 5.4 w, 135 v.

PHYSICAL CHARACTERISTICS

Radio Receiving Equipment RAO-4 or RAO-5 measures 12-1/2 x 17-3/4 x 19-1/2 inches, net weight
 90 pounds. Packed for domestic shipment: total weight 215 pounds, total volume 8.6 cu ft.
 Shipped in 1 package.