

STATUS: Standard

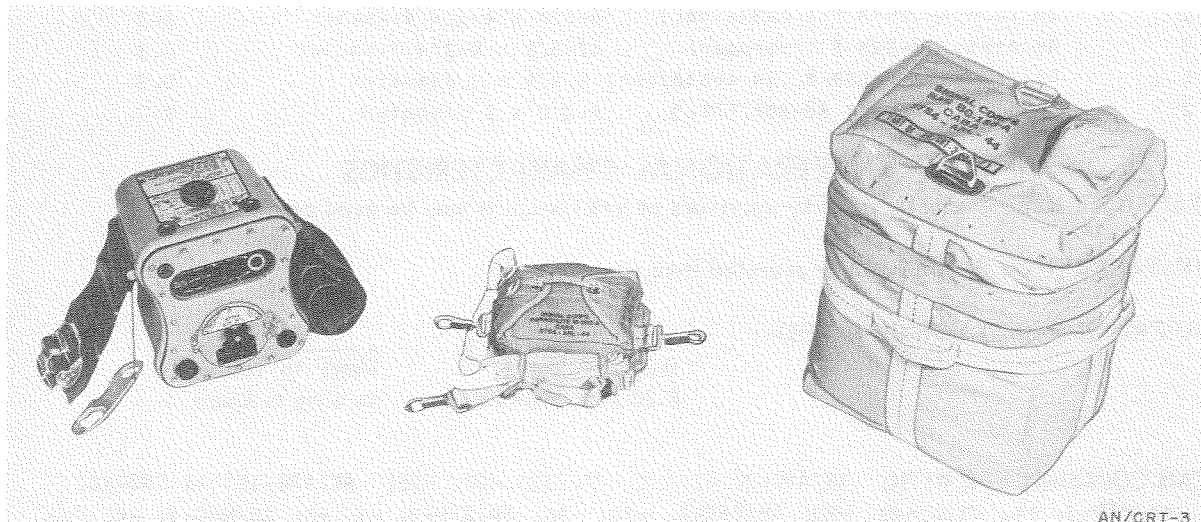
CLASSIFICATION OF EQUIPMENT:Unclassified

USING SERVICE: Air Force, Navy

DATE OF THIS SHEET: 7 Jun 52

AN/CRT-3

RADIO SET



Radio Set AN/CRT-3 is a small, rugged, hand powered emergency radio transmitter, designed for use from raft or life boat by survivors, for sea rescue work. The equipment is air transportable and dropped by parachute. It operates at 0.5 mc and 8.28 mc for ground-to-air and point-to-point communication.

This set is capable of three types of signaling: hand keyed signal light; automatic transmission of SOS on 0.5 mc tone modulated, and SOS on 8.28 mc unmodulated, automatically shifting from one frequency to the other every 40 to 50 seconds; and hand-keyed, tone-modulated transmission on 0.5 mc.

One kite and two balloons are supplied to support a single long wire antenna.

All power for operation of the equipment is supplied by a hand cranked generator.

AN/CRT-3	INSTRUCTION LITERATURE: TO AN 16-30CRT3-2
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter T-74/CRT-3	10-1/2 x 10 x 9	16.0
1	Kite M-357-A	19 x 4 diameter	0.8
2	Balloon M-278-A (in container)	5-1/8 x 4-1/4 diameter	1.3
2	Generator M-315-B (hydrogen)	11-5/8 x 4-1/4 diameter	3.3
1	Signal Lamp M-308-B (in container)	3-1/8 x 3 diameter	0.3
2	Antenna Assembly AS-207/CRT-3	2-1/2 x 3 diameter	0.7

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Normally used by survivors at sea though it may be used on land.

INSTALLATION: Man-carried or operated from life raft.

APPROXIMATE RANGE (IN MILES):

	<u>Day</u>	<u>Night</u>
0.5 mc:	Short	Short to Medium
8.28 mc:	Medium	Medium to Long

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -9, -21, -25, -26; AN/ARR-15; AN/FRC-10; AN/FRR-3, -4, -12, -28, -32; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7, -19; AN/SRC-3; AN/SRR-3, -8, -11, -12, -13; AN/TRQ-1; AN/URR-10, -22, -23; AN/VRC-1, -4; BC-312, -314, -342, -344, -348, -453, -779, -794, -1004; MBS; OA-58/FRC, -59/FRC; R-62/PR, -80/PR, -96/SR, -129/U, -203/SR, -205/U, -206/PR, -208/FR, -209FR, -210/U, -212/SR, -213/SR, -218/SR, -247/URR, -274/FRR, -320/FRC, -388/URR; RAK; RAL; RAO; RAS; RBA; RBB; RBC; RBG; RBH; RBL; RBM; RBO; RBP; RBS; RCF; RCG; RCH; RDF; RDH; REA; SCR-177, -188, -193, -244, -274, -399, -499, -704; TBO; TCH; TCS; AR-88 (RCA); ARC Type 12; Collins 18S-4 (AF Model); Collins 75A-2; Fisher TS 25-3; Hammarlund SP-600-JX; National HRO-50.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: Fixed frequencies 0.5 and 8.28.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Mcw on 0.5 mc with 1,000-cyc tone; cw only on 8.28 mc.

POWER OUTPUT: Approximately 2-1/2 w on 0.5 mc and approximately 2 w on 8.28 mc.

POWER REQUIREMENTS: Hand operated generator, crank speed should be 80 to 100 rpm. Output 28 v (.175 amp) and 300 v (.04 amp) dc.

PHYSICAL CHARACTERISTICS

Radio Set AN/CRT-3 measures 10-1/2 x 10 x 9 inches, net weight 40 pounds, volume 1.1 cu ft. Packed for either domestic or export shipment: total weight 40 pounds, total volume 1.1 cu ft. Shipped in 1 package.