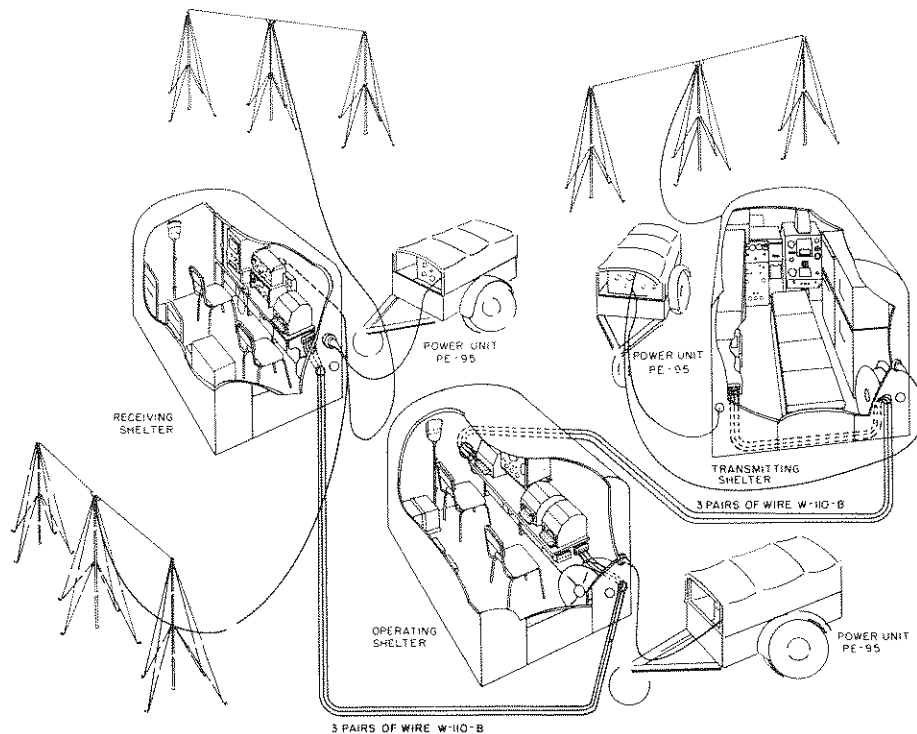


STATUS: Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army

DATE OF THIS SHEET: 20 Dec 51

AN/MRC-2**RADIO SET**

AN/MRC-2

Radio Set AN/MRC-2 is a 2-kw mobile radioteletype station designed to provide either net or long distance operation, with provision for 200/300 w a-m (voice) communication. It is used at field headquarters of large units for long range communication and for handling a heavy volume of traffic.

This equipment is installed and operated in three Shelters HO-17, each carried on a 2-1/2-ton, 6 x 6 cargo truck. Each truck has a 5-kw trailer-drawn power unit. One shelter houses the transmitting equipment (a modified Radio Set SCR-399), another carries the receiving equipment, and the third carries the teletypewriter equipment. An additional truck may be provided to transport the transmitting antenna masts and accessories.

The transmitter operates into one coaxially-fed doublet antenna. The receiver operates with two coaxially-fed doublet antennas spaced three wavelengths apart for diversity reception.

In an emergency it is possible to transmit cw at 2-kw, and cw or voice at 300 w.

AN/MRC-2	INSTRUCTION LITERATURE: TM 11-624
	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO SET	USING SERVICE: Army
	DATE OF THIS SHEET: 20 Dec 51

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Shelter HO-17, Transmitting	158 x 90-1/2 x 77	8,800
1	Shelter HO-17, Receiving	158 x 90-1/2 x 77	7,200
1	Shelter HO-17, Operating	158 x 90-1/2 x 77	7,200
3	Power Unit PE-95	76-1/2 x 108 x 76-1/2	4,965
1	Power Unit PE-75	56 x 44 x 39	491
1	Antenna Gear	21 x 46 x 20	280

OPERATIONAL CHARACTERISTICS

TACTICAL USE: For division, army, and corps levels.

INSTALLATION: Ground, transportable.

APPROXIMATE RANGE (IN MILES): 1,000 or more, dependent on frequency.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -9, -21, -25, -26; AN/ARR-15; AN/ART-13; AN/CRT-3; AN/FRC-10; AN/FRR-3, -4, -7, -12, -28, -32; AN/FRT-5, -6, -15, -17, -18; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7, -19, -20; AN/SRR-3, -8, -12, -13; AN/SRT-4; AN/TRQ-1; AN/URR-10, -22, -23; AN/URT-2, -3, -4; AN/VRC-1, -4; AN/VRR-2; BC-191, -312, -339, -342, -348, -401, -447, -610, -779, -794, -1004; MBS; MQ; OA-58/FRC, -59/FRC, -60A/FRT, -60B/FRT; R-62/PR, -80/PR, -96/SR, -129/U, -203/SR, -205/U, -206/PR, -208/FR, -209/FR, -210/U, -211/U, -213/SR, -274/FRR, -320/FRC, -388/URR; RAL; RAO; RAS; RBB; RBC; RBG; RBH; RBM; RBO; RBP; RBS; RC-52; RCF; RCG; RCH; RDE; RDM; REA; SCR-177, -188, -193, -244, -274, -281, -399, -499, -506, -536, -543, -585, -593, -607, -694, -704; T-4/FRC, -83/SR, -158/FRT, -159/FRT, -172/FR, -173/FR, -174/FR, -175/FR, -177/FR, -180/FR; TBA; TBC; TBK; TBL; TBM; TBN; TBO; TBU; TBW; TBX; TCB; TCC; TCE; TCH; TCK; TCP; TCS; TCZ; TDE; TDF; TDH; TDN; TDO; TEB; TEC; TEF; AR-88 (RCA); Collins 18S-4 (AF Model); Collins 32V-2; 75A-2; Fisher TS 25-3; Hammarlund SP-600-JX; Marconi TH-41-B; National HRO-50; Westinghouse Type MW; Wilcox 96D, 99A.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: Transmitter: 2 - 18.

Receiver: 1.5 - 18 in 6 bands.

Band A: 1.5 - 3.0

Band C: 5.0 - 8.0

Band E: 11.0 - 14.0

Band B: 3.0 - 5.0

Band D: 8.0 - 11.0

Band F: 14.0 - 18.0.

TYPE MODULATION: Transmitter: Frequency shift; am in emergency (for voice).

Receiver: Am.

TYPE OF SIGNAL: Transmitter: Frequency shift teletypewriter signals; emergency use: cw.

Receiver alone: cw, tone, and voice.

Receiver and converter: Frequency shift teletypewriter signals, dual space diversity reception.

POWER OUTPUT: 2 kw.

POWER REQUIREMENTS: (3) Power Unit PE-95.

Transmitter: 6.5 kw; 115 v, 60 cyc.

Receiver: 115 v, 60 cyc.

Control Unit: 170 w; 115 v, 50 - 60 cyc.

PHYSICAL CHARACTERISTICS

Radio Set AN/MRC-2 packed for export shipment: total weight 39,416 pounds, total volume 3,057 cu ft; ship tons 76.4. Shipped in 9 packages.