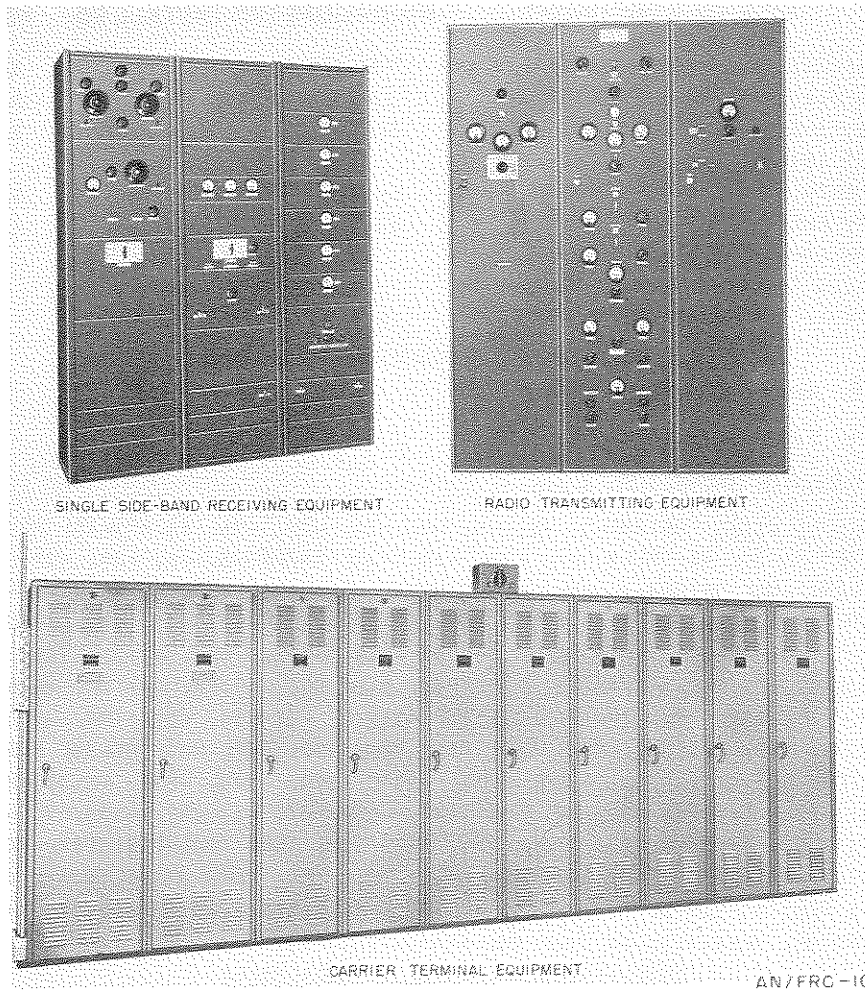


STATUS: Standard
 CLASSIFICATION OF EQUIPMENT: Unclassified
 USING SERVICE: Army
 DATE OF THIS SHEET: 8 Jan 52

AN/FRC-10

RADIO SET



Radio Set AN/FRC-10 is a high-power, h-f, long range, a-m (voice, and tone) radioteletype communication equipment used in long distance, fixed plant applications at army, and equivalent headquarters.

This equipment consists of a single sideband radio transmitter, receiving components, and carrier terminal facilities. It provides six full duplex radioteletype channels (plus a v-f order-wire facility) when operated in a system terminated by identical or equivalent equipment. It can be arranged for double modulation diversity operation when required to overcome fading or interference with long distance communication.

This set requires an elaborate rhombic antenna array, and power is provided by 5-kw field power units located at each of the sites of the operating components which are usually displaced a considerable distance from each other.

AN/FRC-10

INSTRUCTION LITERATURE: TM 11-2132,
TM 11-832, TM 11-884
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Army
DATE OF THIS SHEET: 8 Jan 52

RADIO SET

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN)	INSTALLED	WEIGHT (LBS)
1	Carrier Terminal OA-64/FRC-10 and	220-1/4 x 84 x 17		5,260
1	Carrier Terminal OA-63/FRC-10	220-1/4 x 84 x 17		5,260
1	Radio Transmitting Equipment TEF (Navy)	60-3/4 x 89 x 27		2,428
1	Transmitter T-265/FRC-10	84 x 84 x 42-1/2		5,260
1	SS-Band Radio Receiving Equipment REA (Navy)	64-3/4 x 84 x 15-1/4		1,436
1	Radio Receiver R-369/FRC-10	21-1/2 x 84 x 34		550
1	Distortion Measuring Bay	22 x 84 x 17		350

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Army and higher headquarters.

INSTALLATION: Fixed ground.

APPROXIMATE RANGE (IN MILES): Long.

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, -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/YRC-1, -4; BC-191, -312, -339, -342, -348, -401, -447, -610, -779, -794, -1004;
MBS; 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, -399, -499, -506, -536, -543, -585,
-593, -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; TBW; TBX; TCB; TCC; TCE;
TCH; TCK; 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: 4 - 23.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice and tone.

POWER OUTPUT: 2 to 4 kw.

POWER REQUIREMENTS: Distortion measuring bay: 250 w, 115 v, 50/60 cyc, 1 phase, ac.
Carrier terminal equipment: 3 kw, 115 v, 50/60 cyc, 1 phase, ac.
Receiver R-369/FRC-10: 600 w, 115 v, 50/60 cyc, 1 phase, ac.
Receiver (REA): 500 w, 115 v, 50/60 cyc, 1 phase, ac.
Transmitter T-265/FRC-10: 10 kw, 220 v, 50/60 cyc, 3 phase, ac.
Transmitter (TEF): 5 kw, 220 v, 50/60 cyc, 3 phase, ac.

PHYSICAL CHARACTERISTICS

Information on Radio Set AN/FRC-10 not available.