

STATUS: Standard

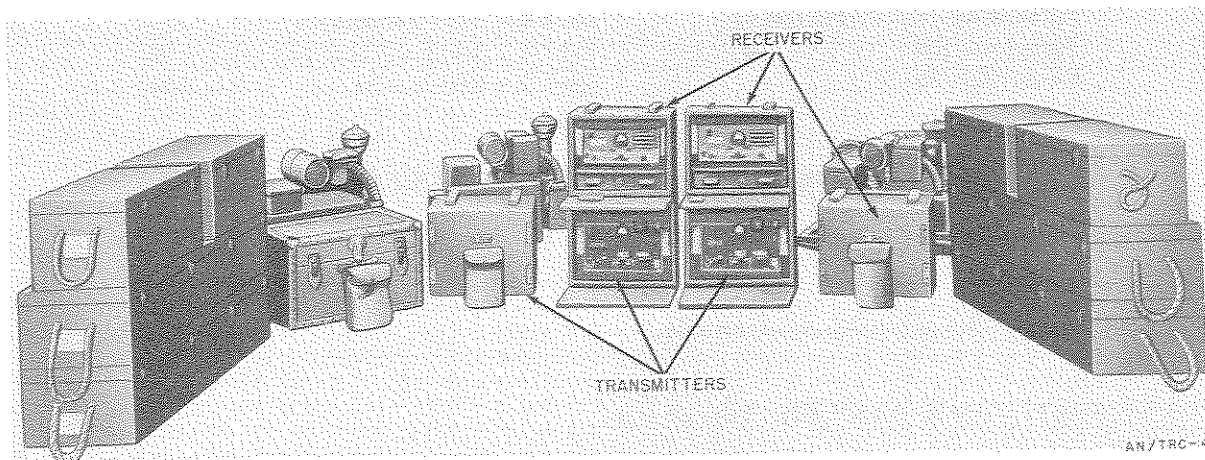
CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army, Navy

DATE OF THIS SHEET: 8 Jan 52

AN/TRC-4

RADIO RELAY SET



Radio Relay Set AN/TRC-4 is a transportable, crystal-controlled, f-m, field, radio transmitting and receiving equipment which can be used in point-to-point, single or multichannel communication or as the repeater facility of a radio relay link of a system serving corps and equivalent headquarters.

This equipment consists essentially of two Radio Sets AN/TRC-1, operating back-to-back at intermediate points of a radio relay facility terminated by Radio Set AN/TRC-1 or Radio Terminal Set AN/TRC-3. It provides various combinations of voice, telegraph, teletypewriter, and facsimile channels. It includes spare operating components, antenna, power, and accessory items.

Amplifier Equipment AN/TRA-1 may be used to increase the transmitter output power of this radio relay set.

Operates from 115 v ac supplied by its power unit component.

AN/TRC-4	INSTRUCTION LITERATURE: TM 11-2601
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
4	Radio Receiver R-19/TRC-1	8 x 12-3/4 x 19-1/8	43
4	Radio Transmitter T-14/TRC-1	10-3/4 x 12-3/4 x 19-1/8	66
5	Antenna System AS-19/TRC-1	26-3/8 x 33-1/2 x 105-1/2	470
2	Telephone EE-8	9-9/16 x 3-1/2 x 7-11/16	10
4	Power Unit PE-75	26-1/2 x 19-1/2 x 36	330

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Corps and equivalent headquarters.

INSTALLATION: Ground, field, transportable.

APPROXIMATE RANGE (IN MILES): Line of sight.

CAN COMMUNICATE WITH: AN/TRC-1, -3, -4; AN/URR-10, -12; BC-787; R-137/GR; RBK; SCR-687.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 70.0 — 99.9.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice, teletypewriter (with additional equipment).

POWER OUTPUT: Transmitter, 50 w maximum, 10 w low power.

POWER REQUIREMENTS: Receiver: 100 w, 115 v, 50/60 cyc ac.
 Transmitter: 250 w, 115 v, 50/60 cyc ac.
 Commercial power source or power Unit PE-75, or equal.

PHYSICAL CHARACTERISTICS

Radio Relay Set AN/TRC-4 packed for export shipment: total weight 4,500 pounds, total volume 187 cu ft, 4.7 ship tons.