

STATUS: Standard

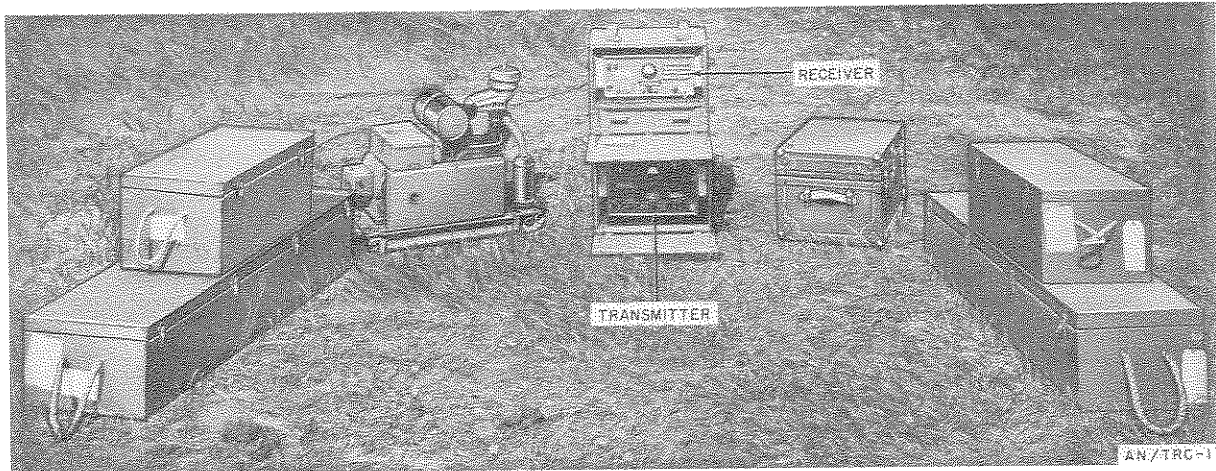
CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army, Navy

DATE OF THIS SHEET: 20 Dec 51

AN/TRC-1

RADIO SET



Radio Set AN/TRC-1 is a transportable, crystal-controlled, f-m radio receiving and transmitting equipment for radio relay or point-to-point communication in the v-h-f band. It is used at regimental or higher headquarters. When operated as the terminal of a radio relay link in a tactical communication system it provides one-way or simultaneous two-way facilities.

With appropriate auxiliary equipment, four channels of radioteletype or a single channel of facsimile signals can be accommodated.

The set can be operated from a distant control point on a two-wire or four-wire basis by means of Remote Control Equipment AN/TRA-2. Amplifier Equipment AN/TRA-1 can be added when necessary to increase transmitter power output. Antenna tower, dipole elements, power supply, and accessory items are included.

This equipment is intended for operation on an intermittent or prescheduled basis only. It does not include spare operating components.

For continuous operation, Radio Terminal Set AN/TRC-3, composed essentially of two Radio Sets AN/TRC-1, is available. Also, two AN/TRC-1 sets (including necessary spares) operating back-to-back at an intermediate point in a system constitute Radio Relay Set AN/TRC-4.

AN/TRC-1	INSTRUCTION LITERATURE: TM 11-2601
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Receiver R-19/TRC-1	22-1/2 x 16 x 17-3/4	95
1	Radio Transmitter T-14/TRC-1	22-1/2 x 16 x 17-3/4	108
2	Antenna System AS-19/TRC-1	Not Available	470
1	Power Unit PE-75	26-1/2 x 19-1/2 x 36	330

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Regimental or higher 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 Set AN/TRC-1 weighs 1,435 pounds net. Packed for export shipment: total weight 2,000 pounds, total volume 78 cu ft, 2 ship tons.