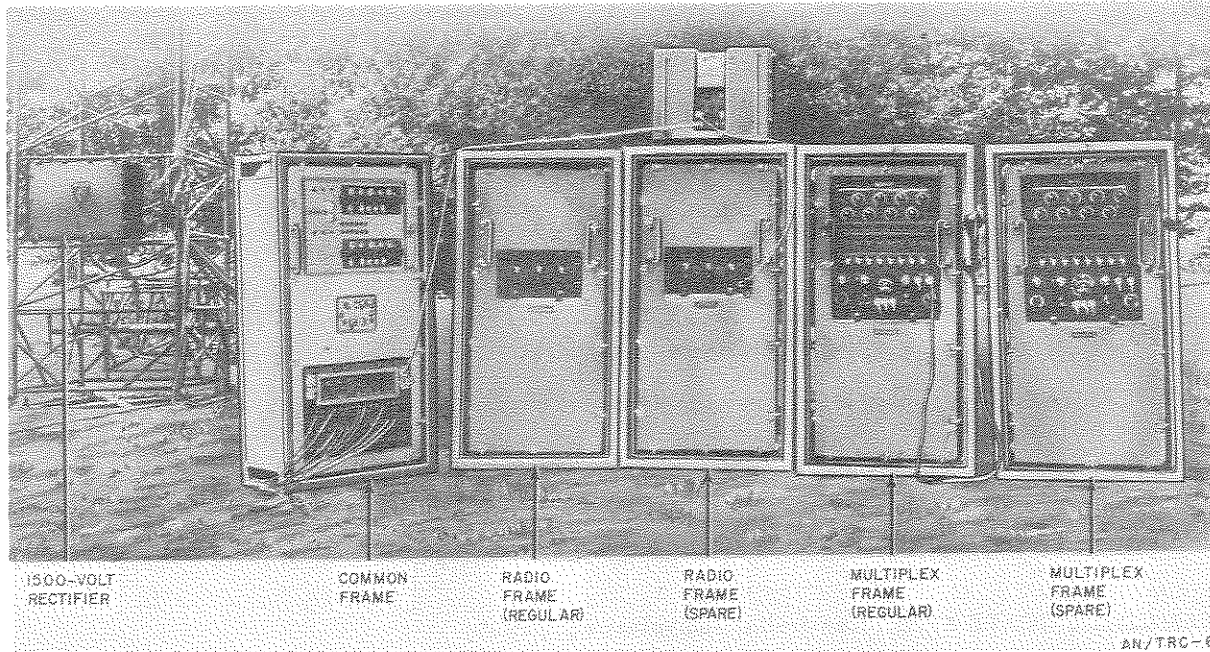


STATUS: Limited Standard CLASSIFICATION OF EQUIPMENT: Unclassified USING SERVICE: Army DATE OF THIS SHEET: 20 Dec 51	<h1>AN/TRC-6</h1>
	RADIO SET



Radio Set AN/TRC-6 is a transportable, pulse-position-modulated, superhigh-frequency radio relay set used at terminals of a multichannel radio relay system in conjunction with v-f or carrier telegraph and telephone facilities. It is usually installed at permanent or semipermanent locations at higher headquarters.

This equipment provides eight two-way channels which may be terminated on a two-wire or four-wire basis with talking, monitoring, and ringing on each channel.

Equipment consists essentially of two receivers, two transmitters, two multiplex frames, a rectifier power unit antenna, and accessory components. It may be installed and operated in Shelter HO-17 or HO-27 and transported on a 2-1/2-ton cargo truck. It includes a trailer-drawn field power unit.

Two Radio Sets AN/TRC-6 can be operated back-to-back to provide radio relay or repeater facilities at an intermediate point of a radio relay link in a tactical communication system.

AN/TRC-6

RADIO SET

INSTRUCTION LITERATURE: TM 11-631

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army

DATE OF THIS SHEET: 20 Dec 51

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Common Frame Assembly CY-75/TRC-6	48-1/4 x 13 x 25-1/2	190
2	Radio Frame Assembly CY-74/TRC-6	48-1/4 x 13 x 25-1/2	200
2	Multiplex Frame Assembly CY-76/TRC-6	48-1/4 x 13 x 25-1/2	260
2	Radio Transmitter T-57/TRC-6	12-1/4 x 18 x 17	45
2	Receiver-Converter CV-10/TRC-6	12-1/2 x 13 x 12-1/2	20
2	Rectifier Power Unit PP-71/TRC-6	19 x 13-1/2 x 20	112

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Radio relay team. Installed in higher headquarters.

INSTALLATION: Ground, fixed or fixed field, transportable.

APPROXIMATE RANGE (IN MILES): Single link 25 to 40. Average system (four radio links) up to 200.

CAN COMMUNICATE WITH: Identical or equivalent equipment.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 4,350 — 4,800 in four bands.

Band A: 4,800 Band C: 4,500
Band B: 4,650 Band D: 4,350.

TYPE MODULATION: Pulse-position-modulated, time division.

TYPE OF SIGNAL: Voice, d-c telegraph and teletypewriter.

POWER OUTPUT: 0.2 w (average).

POWER REQUIREMENTS: 115-v, 50/60 cyc, 1,312-w (minimum), 3,400-w (maximum), single-phase ac. Commercial power source or Power Unit PE-197, or equal.

PHYSICAL CHARACTERISTICS

Radio Set AN/TRC-6 packed for domestic shipment: total weight 4,684 pounds.