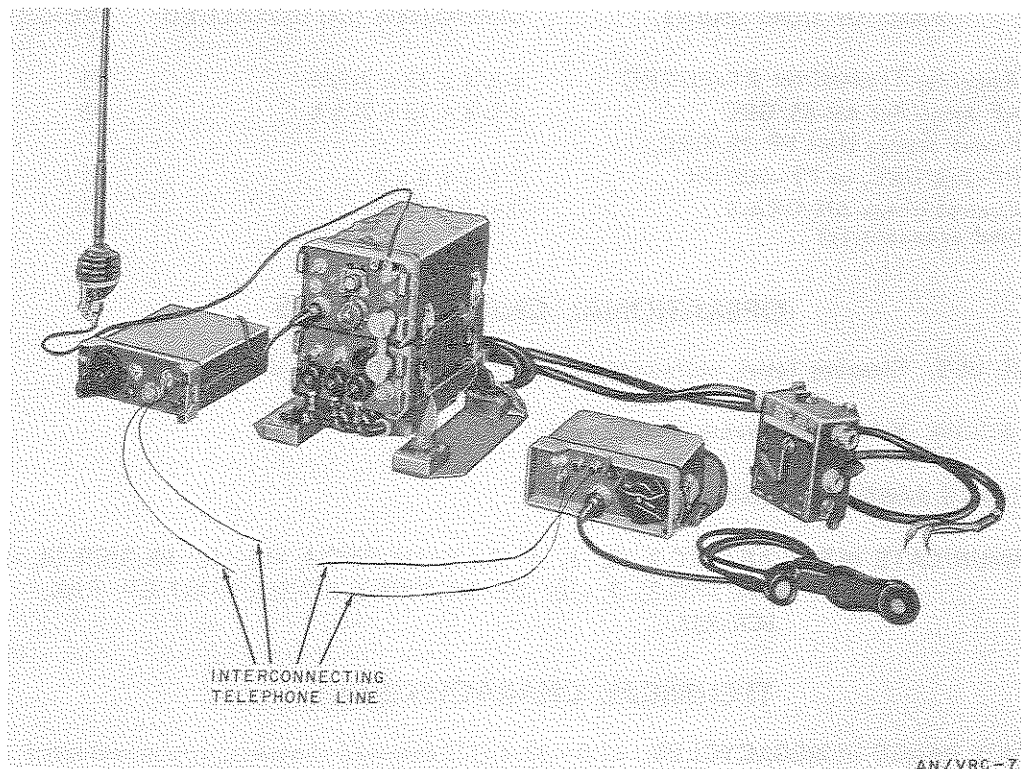


STATUS: Standard  
 CLASSIFICATION OF EQUIPMENT: Unclassified  
 USING SERVICE: Army  
 DATE OF THIS SHEET: 8 Jan 52

# AN/VRC-7

RADIO SET



Radio Set AN/VRC-7 is a short-range, f-m (voice), vehicular radiotelephone equipment used within and between artillery, infantry, and armored force units.

This set consists of the separate, short-range, low-power receiver-transmitter component designated as set 2 when used as part of radio sets of the integrated series such as Radio Sets AN/GRC-3 through AN/GRC-8.

Includes vehicular installation unit, power supply equipment, and interphone amplifier, plus various control and accessory equipment such as microphone, headset, and loudspeaker.

Can be operated by means of Control Group AN/GRA-6 from a remote point up to a distance of about 2 miles over a telephone pair.

<b>AN/VRC-7</b>	INSTRUCTION LITERATURE: TM 11-285
	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO SET	USING SERVICE: Army
	DATE OF THIS SHEET: 8 Jan 52

**MAJOR COMPONENTS**

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Receiver-Transmitter RT-70/GRC	4-3/4 x 13 x 7-7/8	25
1	AF Amplifier AM-65/GRC	4-3/4 x 13 x 7-7/8	15
1	Power Supply Unit PP-28/GRC, PP-282/GRC, or PP-448/GR	4-1/2 x 6 x 3	6
1	Control Group AN/GRA-6 (and accessories)	Not Available	96

**OPERATIONAL CHARACTERISTICS**

**TACTICAL USE:** Company level, units organic to armored and infantry divisions.

**INSTALLATION:** Vehicular, moving or at the halt.

**APPROXIMATE RANGE (IN MILES):** 3/4.

**CAN COMMUNICATE WITH:** AN/GRC-3, -4, -5, -6, -7, -8; AN/PRC-6, -10, -16; AN/URR-10, -12;  
AN/VRC-3, -7, -10, -22; AN/VRQ-3; BC-787; R-137/GR; RBK;  
SCR-607.

**TECHNICAL CHARACTERISTICS**

**FREQUENCY RANGE IN MEGACYCLES:** 47.0 - 58.4 (115 detented channels, two preselected channels, or continuous manual tuning).

**TYPE MODULATION:** Fm.

**TYPE OF SIGNAL:** Voice only.

**POWER OUTPUT:** Transmitter, 500 mw (approximately).  
Receiver, 75 mw (approximately).  
Interphone, 350 mw (approximately).

**POWER REQUIREMENTS:** From vehicular storage battery:

	6 v	12 v	24 v
Transmitting:	5.3	4.3	2.5 amp
Stand-by:	5.1	4.1	4.3 amp
Interphone:	2.6	2.6	1.4 amp

**PHYSICAL CHARACTERISTICS**

Radio Set AN/VRC-7 weighs 105 pounds net. Packed for export shipment: total weight 164 pounds, total volume 4.92 cu ft. Shipped in 3 packages.