

STATUS: Standard

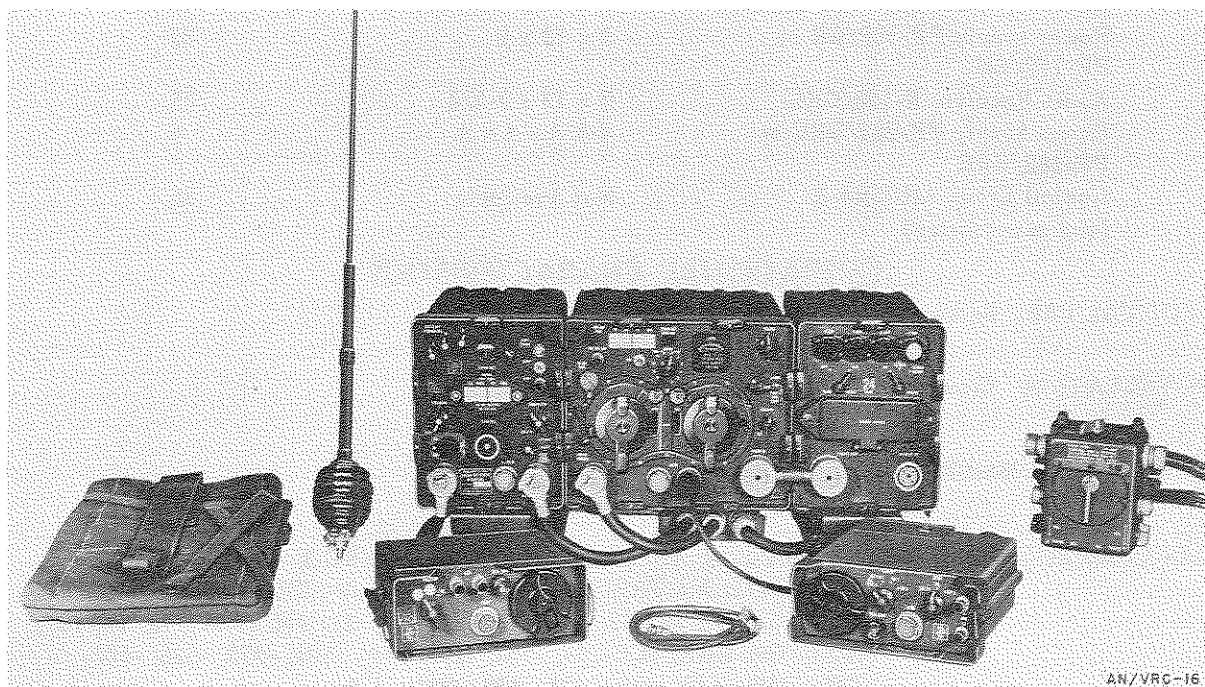
CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army

DATE OF THIS SHEET: 8 Jan 52

**AN/VRC-16**

RADIO SET



Radio Set AN/VRC-16 is a short-range, vehicular, f-m (voice) equipment for communication within and between armored units and for liaison between armored force and artillery units.

This set consists of the receiver-transmitter component designated as set 1 when used as part of radio sets of the integrated series such as Radio Sets AN/GRC-3 and AN/GRC-4, plus the auxiliary receiver component of these sets. Vehicular installation unit, power supply equipment, antenna, and control components are included.

This equipment 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-16</b>	INSTRUCTION LITERATURE: TM 11-611
	CLASSIFICATION OF EQUIPMENT: Unclassified
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**MAJOR COMPONENTS**

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Receiver-Transmitter RT-66/GRC	9 x 13 x 11-1/4	35
1	Power Supply PP-109/GR or PP-112/GR	9 x 13 x 8	33
1	Radio Receiver R-108/GRC	9 x 13 x 7-1/4	35
1	Power Supply PP-281/GRC or PP-282/GRC	4-1/4 x 6 x 3	6
1	Control Group AN/GRA-6 (and accessories)	Not Available	96

**OPERATIONAL CHARACTERISTICS**

**TACTICAL USE:** Battery level units organic to an armored division.

**INSTALLATION:** Ground, vehicular, moving or at the halt.

**APPROXIMATE RANGE (IN MILES):** 10 - 15.

**CAN COMMUNICATE WITH:** AN/FRT-5, -6; AN/GRC-3, -4, -5, -6; AN/MRC-3, -16; AN/PRC-8, -9;  
AN/SRR-13; AN/TRQ-1; AN/URR-10, -12; AN/URT-2, -3, -4;  
AN/VRC-5, -8, -9, -13, -14, -16, -17, -20, -21; AN/VRQ-1, -2; BC-787,  
R-137/GR; RBK; SCR-293, -294, -298, -508, -509, -510, -528, -607,  
-608, -609, -610, -619, -628, -678, -808, -828.

**TECHNICAL CHARACTERISTICS**

**FREQUENCY RANGE IN MEGACYCLES:** 20.0 - 27.9

Receiver-Transmitter RT-66/GRC: 80 detented channels, two preselected channels, or continuous manual tuning.

Radio Receiver R-108/GRC: three preselected channels or continuous manual tuning.

**TYPE MODULATION:** Fm.

**TYPE OF SIGNAL:** Voice.

**POWER OUTPUT:** Transmitting, 16 w on high power, 2 w on low power.  
Receiving, 1 w at loudspeaker, 50 mw at headphone terminals.

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

	<u>12 v</u>	<u>24 v</u>
Transmitting:	11.9	7.3 amp
Stand-by:	2.3	1.5 amp
Auxiliary receiver:	2.5	1.5 amp.

**PHYSICAL CHARACTERISTICS**

Radio Set AN/VRC-16 weighs 180 pounds net. Packed for export shipment: total weight 306 pounds, total volume 6.6 cu ft. Shipped in 3 packages.