

# AN/PRC-117D VHF / UHF AM & FM RADIO SET



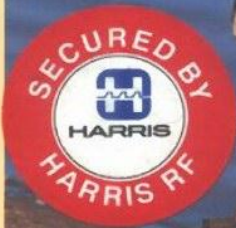
30-420 MHz

AN/PRC-117D (C)

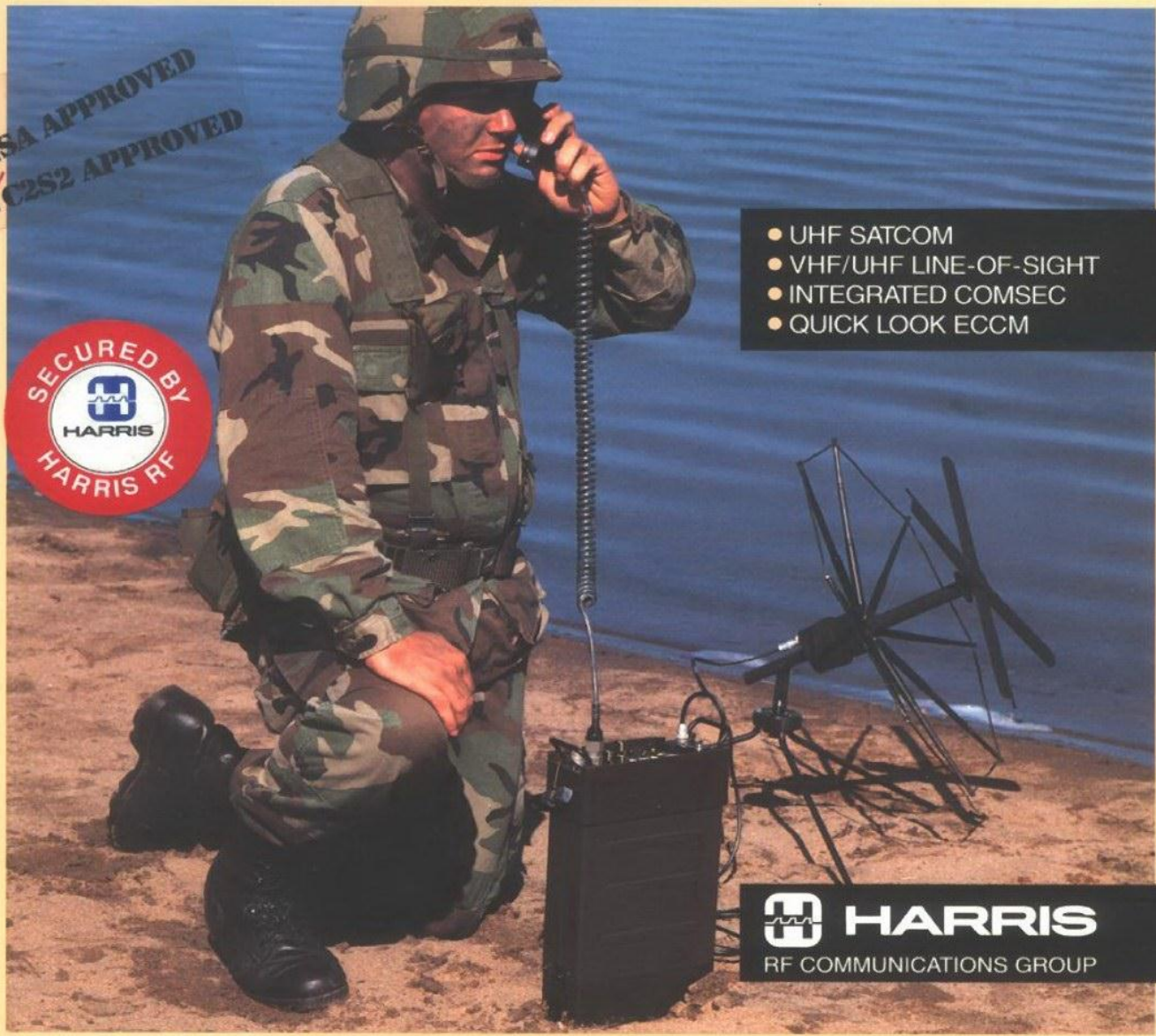
# MULTIMISSION RADIO SET



NSA APPROVED  
C2S2 APPROVED



- UHF SATCOM
- VHF/UHF LINE-OF-SIGHT
- INTEGRATED COMSEC
- QUICK LOOK ECCM



**HARRIS**  
RF COMMUNICATIONS GROUP





## Specifications

### GENERAL

#### Frequency Range:

VHF (Low) 30.000 – 89.975 MHz.  
 VHF (High) 116.000 – 173.995 MHz.  
 UHF 225.000 – 419.995 MHz.

#### Channel Spacing:

VHF (Low) 25 kHz.  
 VHF (High) 5 or 6.25 kHz.  
 UHF 5 kHz.

#### Modulation:

VHF (Low) FM (5 or 8 kHz Deviation).  
 VHF (High) AM (90%); FM (5 or 8 kHz).  
 UHF AM (90%); FM (5 or 8 kHz), SBPSK.

#### Modes of Operation (All Bands):

Simplex;  
 Half-Duplex;  
 ECCM – Frequency Hopping;  
 Plain Text Voice/Data, Asynchronous Data up to 16k baud, Synchronous Data at 16k baud.

#### SATCOM Modem:

Plain Text Voice/Data:  
 Data = 2.4 or 16k Synchronous; up to 16k Asynchronous; Cipher Text Voice/Data: Synchronous data = 16k baud.

#### ECCM Codes:

Exceeds  $3 \times 10^{11}$ .

#### COMSEC Variables:

One (1) rekey variable, SARK, zeroize, secure and plain text retransmission.

#### COMSEC Fill Devices:

KOI-18, KYK-13, KYX-15.

#### Power Supply:

12 Vdc nominal.

#### Shock/Vibration:

MIL-STD-810D.

#### Immersion:

3 ft. (.9m) of water.

#### Temperature

-40°C to +70°C.

#### Humidity:

MIL-STD-810D.

#### Size:

3.0H x 7.9W x 13.6D in. (7.6H x 20.0W x 34.5D cm).

#### Weight:

15.25 lb. (6.9 kg) (with battery, LOS antenna, handset).

### TRANSMITTER

#### Output Power:

#### Front Panel Switch Setting

	LOW (adjustable):	HIGH (fixed):
FM	1, 2, 4, 6, 8 or 10 Watts	10 Watts.
AM	1, 2, 4, 6, 8 or 10 Watts	10 Watts (24.5 Watts PEP).
	(24.5 Watts PEP).	
UHF TACSAT	2 – 20 Watts, 2 Watt Steps	20 Watts.

#### Frequency Stability:

$\pm 1 \times 10^6$ .

#### Harmonic Suppression:

>40 dB.

### RECEIVER

#### Sensitivity:

VHF (Low/High) -113 dBm FM for 10 dB SINAD;  
 -110 dBm AM for 10 dB SINAD, 70% Modulation.  
 UHF -110 dBm AM for 10 dB SINAD, 70% Modulation;  
 -120 dBm FM for 10 dB SINAD.

### OPTIONS

- Telephone PABX Interface
- HF/VHF/UHF Retransmission
- Video Imaging
- Remote Control
- 50 Watt Vehicular/Base Configuration
- Data Systems – 16 kB Sync/Async
- FAX/DMED (OA8990, KL43C, etc.)

11/92 2.5M FCP  
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Because Harris engineers continuously strive to improve all aspects of our equipment, published specifications are subject to change without notice.

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## Applications



**Vehicular** – 50 Watt Vehicular Transceiver



**Transportable** – Integrated HF/VHF/UHF Transportable Transceiver



**Shelterized** – Integrated 50 Watt VHF/UHF Shelterized Transceivers



**Data Transmission** – RF-3490A Digital Data Buffer/Processor



**Image Transmission** – RF-3700-04CP High Resolution Digital Image Transmission Set