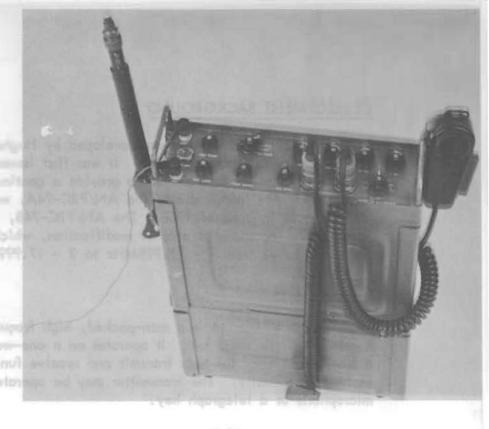
# U.S. ARMY FACT SHEET

NOV., 1969

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## RADIO SET, AN/PRC-74B

### CHARACTERISTICS

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PP	1 Y N	16 6	м.
		10/	% Ban

Type Weight

Size

Solid state

28 pounds 2 ounces (man-packed, with

dry cell battery) 18" x 12" x 3-3/8"

BB-418 nickel-cadmium Power source

battery or BA-386 dry

cell battery

Mounting

Manpack Antenna 10-foot whip (manpack)

doublet, or slant wire

### **OPERATIONAL**

Frequency range Channels

Range

(whip antenna) (doublet) (slant wire) Power output Operation modes 2 - 17:999 MHz 16,000 at 1 KHz Intervals

15 miles 30 miles 500 miles 15 watts

Single side band (voice), of continuous wave (code)

### EMPLOYMENT

Radio Set AN/PRC-74B is organic to Special Forces units and to Military Assistance Teams in Southeast Asia. It provides long-range patrols with a means of communicating with their base stations. The AN/PRC-74B is interoperable with other high-frequency single side band radios such as the AN/GRC-106:

Prepared for the OFFICE OF THE CHIEF OF INFORMATION, DEPARTMENT OF THE ARMY

by the U.S. ARMY COMMAND INFORMATION UNIT + WASHINGTON, D.C. 20315

### DEVELOPMENT BACKGROUND

The AN/PRC-74 radio was developed by Hughes Aircraft Company primarily for the military market. It was first issued for user tests in 1964. In 1966 this radio was modified to provide a continuous wave transmission capability. The modified set, the AN/PRC-74A, was initially delivered for Army use in June of 1966. The AN/PRC-74B, issued to Army units in early 1967, incorporated another modification, which extended the set's frequency range from 2 - 11.999MHz to 2 - 17.999MHz.

### DESCRIPTION

The AN/PRC-74B is a man-packed, high frequency, single side band/continuous wave radio set. It operates on a one-way reversible basis, using a single frequency for both transmit and receive functions. Tuning is performed manually. The transmitter may be operated by either a push-to-talk microphone or a telegraph key.

### RADIO SET, AN/PRC-748

### CHAMCIBIATION

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ingterv	Solid state 28 pounds 2 ounces (man-packed, with	Frequency range Channels	2 - 17,999 Akts 16,000 st 1 lots Intecreis
Šlas Powar sourca	dry cell battery) 18" x 12" x 3-3/8" BB-418 nickel-cadmium battery or BA-386 dry	Range (whip antennal (doublet) (slant wire)	15 miles 20 miles 200 miles
BattacaM BattacaM	cell battery Manpack 10-foot whip (manpack) doublet, or slant wire	Power output Operation modes	15 veits Single slife bend (voice), ne continuous wave (code)

### EMPLOYMENT

Radio Set AIVPRC-748 is organic to Special Forces units and to Military Astistance Teams in Southeast Asia. It provides long-range patrols with a means of communicating with their base stations. The AIVPRC-748 is interoperable with other high-frequency single side band radios such as the AIVGRC-106.

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FICE AND PRC-74



### RADIO SET AN/PRC-74B

# 626960

### CHARACTERISTICS

PHYSICAL

Type Portable,

Transistorized

Major Components

RT-794/PRC

Weight

(w/Ni-Cad Battery) 38 1

38 lbs, 9 ozs

Size

18"H, 12"W, 3 3/4"D

Power Sources

BB-418 Rechargeable

Ni-Cad 15 lbs

70 BA-30s 27 lbs

2 ea BA-386s 9 lbs

Power Supply PP-4514/PRC-74 (Universal Power Supply and Battery Charger 40 1bs)

Mounting

Man-Packed, Portable

Fixed

Antenna

Whip Antenna AS-1887A/PRC-74

Antenna Kit MK-911A/PRC-74 (Slant Wire and Dipole

Provided)

Band Divine Commercial Park

OPERATIONAL

Frequency Range

2-17.999 MHz

Channels

16,000

Range

30 Miles Voice w/Doublet

500 Miles CW

Output

15 watts PEP

Operation

Modes

SSB CW

Radio Signal

SSB

### EMPLOYMENT

Radio Set AN/PRC-74B provides voice or CW communications in areas where direct line-of-sight communication is not possible. The set uses both ground wave and sky wave propagation.

### DEVELOPMENT BACKGROUND

Radio Set AN/PRC-74 (Hughes HC-162) was developed by Highes Aircraft Company primarily for the military market. The frequency range, originally 2 through 11.999 MHz, has been increased to 17.999 MHz. This set is an interim radio set to satisfy the man packed, high frequency, single sideband (HF, SSB) requirements. The AN/PRC-74 (2-11.999 MHz) was issued for user tests in 1964. In early 1966 the AN/PRC-74 was modified to provide coder burst transmission capability. The modified set, AN/PRC-74A, was initially delivered for Army use in June 1966. The extended frequency range version, AN/PRC-74B (2-17.999 MHz) was issued to Army units in early 1967.

### DESCRIPTION

The AN/PRC-74B is a low powered, fully transistorized receiver-transmitter constructed on modular principles. The set operates on a single frequency for both transmit and receive functions. The transmitter is operated by either a push-to-talk microphone button or a telegraph key. The receiver is operative only when the transmitter is not being used. Therefore, communication is on a one-way reversible basis.

Test Set AN/PRM-31, also developed by Hughes, is designed for the rapid location of faulty modules in the radio set. It is intended for use at direct support level.

