HARRIS®

assuredcommunications®

AN/PRC-152

TYPE-1 MULTIBAND MULTIMISSION HANDHELD RADIO



SINCGARS

HAVEQUICK II

MIL-STD-188-181B

VHF/UHF, AM/FM

APCO P25

HPW

DAMA

The Falcon III® AN/PRC-152 single-channel multiband, multimission handheld radio provides the optimal transition to JTRS technology. The radio covers the full 30 to 512 MHz frequency range with adjustable transmit output power up to 5 watts. With its JTRS-approved Software Communications Architecture (SCA) operating environment and the embedded Sierra II™ module, the AN/PRC-152 delivers modern programmable encryption in an SCA-compliant radio that supports current and future algorithms and waveforms.

The versatile AN/PRC-152 supports SINCGARS and several other waveforms, including VHF/UHF AM and FM and optional Havequick I/II, which are preliminary versions ported from the JTRS library. Other optional waveforms include the APCO P25 Land Mobile Radio waveform, which allows interoperability with civilian authorities.

Additionally, the AN/PRC-152 provides robust satellite communications capability with dedicated channel MIL-STD-188-181B for 5 KHz and 25 KHz channels, including Advanced Narrow Band Digital Voice Terminal (ANDVT) with up to 56 kbps data. The latest waveform option is UHF DAMA-SATCOM, which includes MIL-STD-188-182A (5 KHz) and 183A (25 KHz). The JTRS-approved AN/PRC-152 is the first SCA-compliant handheld radio to provide JITC certified DAMA capability. The radio supports MELP and LPC-10 digitized voice in DAMA and dedicated SATCOM operations.

NSA CERTIFIED
★
JITC CERTIFIED DAMA
★
JTRS APPROVED

Secured by the Harris Sierra II software-programmable encryption module, the NSA-certified AN/PRC-152 supports various Type-I device compatibility modes: KY-57/VINSON, ANDVT/KYV-5, KG-84C, FED-STD-1023 (Fascinator), AES, DS-101, and DS-102. Sierra II supports all JTRS COMSEC and TRANSEC requirements and features a low-power design to conserve battery life in the compact handheld form-factor radios.

The AN/PRC-152 hardware configuration options include an embedded GPS receiver that displays local positions and provides automatic position reporting for situational awareness on the battlefield. A maritime version of the radio, with capabilities and connectors identical to the original radio, is water submersible to 20 meters per MIL-STD-810F.

Another first for tactical radios, the AN/PRC-152 can store multiple mission plan files to extend adaptability of fielded radios. With the unique wireless cloning feature, squads of radios can be quickly and securely reconfigured to meet dynamic operational needs. The software-upgradeable AN/PRC-152 is the tactical radio enabling today's warfighter to take on tomorrow's missions.



P25 DIGITAL • DIGITAL WIRELESS • SANS FIL • NUMERIQUE • INALAMBRICO

Specifications for the AN/PRC-152

General

Frequency Range	30-512 MHz
Presets	99 (standard); unlimited using multiple mission plan files
Transmission Modes	FM, AM, PSK, CPM, FSK
Tuning Resolution	10 Hz

Transmitter

Output Power	250 mW to 5 W, 10 W SATCOM High Power Mode
Harmonic Suppression	–47 dBc
Frequency Stability	+/- 2.5 ppm

Receiver

FM Sensitivity	-116 dBm (12 dB SINAD)
FM Deviation	5, 6.5 and 8 kHz
Adjacent Channel Rejection	Greater than 55 dB
Squelch	Selectable (tone, noise, CDCSS, CTCSS)

Interoperability

Fill Devices	AN/CYZ-10 DTD (Supports DS-101, DS-102 & Mode 2/3), KYX-15, KYK-13, DTD 2000
Crypto Modes	KY-57, ANDVT/KYV-5, KG-84C, FED-STD-1023, AES, Fascinator
Radios	AN/PRC-117F, AN/PRC-113, AN/PRC-119A/B, AN/PRC-148, AN/PRC-77, PSC-5, AN/PRC-139, XTS-5000, ARC-210, ARC-164, ARC-231
GPS	PLGR, DAGR

Interfaces

External Data	RS-232, RS-422, MIL-STD-188-114A
Programming/Remote Control	USB/RS-232
Antenna	50 Ohm TNC
Audio	Six-pin standard

Physical

Dimensions	2.9 W x 9.6 H x 2.5 D in. (with battery and GPS)
Weight	2.6 lbs. (with battery)
Volume	42 in.^{3} (with battery and GPS)

Environmental

Temperature	Radio: -31˚ to +60˚C Radio with Li Ion Battery: -20˚ to +60˚C
Immersion	2 meter; 20 meter (optional)
Test Method	MIL-STD-810F
Finish	CARC Green

Key Features

- SCA v2.2 compliant (no waivers)
- Sierra II programmable crypto
- Built-in speaker/mic
- Full numeric keypad
- NVG compatible display
- Embedded GPS (optional)
- DAMA (optional)
- MELP
- Wireless cloning
- TX/RX OTAR
- Long-life internal Hold-up Battery (HUB)
- Supports multiple mission plans

Waveforms

- MIL-STD-188-182A and MIL-STD-188-183A (optional)
- SINCGARS
- VHF/UHF AM/FM
- MIL-STD-188-181B
- Havequick II
- High Performance Waveform (HPW) (optional)
- APCO P25 (optional)

Accessories

- 30-512 MHz small whip antenna (included)
- Rechargeable lithium-ion battery (included)
- 30-108 MHz 1 meter blade antenna (included)
- Operator's manual (included)
- Holster
- RF-5912-PS001 Battery Eliminator
- RF-5911-PS001 AA Battery Adapter
- RF-6550M Radio Programming Application (RPA)
- Audio headsets, H-250 handset
- RF-300M-HV Vehicular Adapters
- 12041-3100-01 Lapel Speaker/Mic



20-meter submersible AN/PRC-152 with GPS



20-meter submersible AN/PRC-152

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