

## AN/PRC-152

**TYPE-1 MULTIBAND  
MULTIMISSION  
HANDHELD RADIO**



SINCGARS  
HAVEQUICK II  
MIL-STD-188-181B  
VHF/UHF, AM/FM

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.

APCO P25  
HPW  
DAMA  
HPW-IP

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 beyond line-of-sight 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 and only SCA-compliant handheld radio to provide JTC certified DAMA capability. The radio supports MELP and LPC-10 digitized voice in DAMA and dedicated SATCOM operations.

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), Suite B 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 location information for situational awareness on the battlefield. Optionally available is a high band version that extends UHF LOS, and APCO P-25 frequency coverage to the 700/800 MHz band. A maritime version of the radio, with capabilities and connectors identical to the standard 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 moving beyond legacy radios, enabling today's warfighter to take on tomorrow's missions.

**NSA  
CERTIFIED**  
★  
**JTC  
CERTIFIED  
DAMA**  
★  
**JTRS  
APPROVED**



# Specifications for the AN/PRC-152

<b>General</b>	
<b>Frequency Range</b>	30-512 MHz 30-520, 762-870 MHz (High Band option)
<b>Presets</b>	99 (standard); unlimited using multiple mission plan files
<b>Transmission Modes</b>	FM, AM, PSK, CPM, FSK
<b>Tuning Resolution</b>	10 Hz

<b>Transmitter</b>	
<b>Output Power</b>	250 mW to 5W, 10 W SATCOM Burst Mode, 4 W max in 762-870 MHz frequency range
<b>Harmonic Suppression</b>	-50 dBc
<b>Frequency Stability</b>	+/- 2.5 ppm

<b>Receiver</b>	
<b>FM Sensitivity</b>	-119 dBm (12 dB SINAD) Typical
<b>FM Deviation</b>	5, 6.5 and 8 kHz
<b>Adjacent Channel Rejection</b>	Greater than -40 dB
<b>Squelch</b>	Selectable (tone, noise, CDCSS, CTCSS)

<b>Interoperability</b>	
<b>Fill Devices</b>	AN/CYZ-10 DTD (Supports DS-101, DS-102 & Mode 2/3), KYX-15, KYK-13, DTD 2000, SKL
<b>Crypto Modes</b>	KY-57, ANDVT/KYV-5, KG-84C, FED-STD-1023, Suite B AES, Fascinator
<b>Radios</b>	AN/PRC-117F, AN/PRC-113, AN/PRC-117G, RF-310M-HH, AN/PRC-119A/B, AN/PRC-148, AN/PRC-77, PSC-5, AN/PRC-139, XTS-5000, ARC-210, ARC-164, ARC-231, XG-100 Unity
<b>GPS</b>	PLGR, DAGR

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

<b>Physical</b>	
<b>Dimensions</b>	2.9 W x 9.6 H x 2.5 D in. (with battery and GPS)
<b>Weight</b>	2.6 lbs. (with battery)
<b>Volume</b>	42 in. <sup>3</sup> (with battery and GPS)

<b>Environmental</b>	
<b>Temperature</b>	Radio: -31° to +60°C Radio with Li Ion Battery: -20° to +60°C
<b>Immersion</b>	2 Meter standard (watertight for 30 minutes minimum) 20 Meter option (watertight for 2 hours minimum)
<b>Test Method</b>	MIL-STD-810F
<b>Finish</b>	CARC Green

<b>Key Features</b>	
SCA v2.2 compliant (no waivers)	
Sierra II programmable crypto	
Built-in speaker/mic	
Full numeric keypad	
NVG compatible display	
High Band UHF/APCO P-25 (option)	
Embedded GPS (optional)	
DAMA (optional)	
MELP	
Wireless cloning	
TX/RX OTAR	
Long-life removable/replaceable Hold-up Battery (HUB)	
Supports multiple mission plans	

<b>Waveforms</b>	
DAMA with MIL-STD-188-182A and MIL-STD-188-183A (optional)	
SINCGARS	
VHF/UHF AM/FM	
MIL-STD-188-181B	
Havequick II	
HPW-IP (optional)	
High Performance Waveform (HPW) (optional)	
APCO P25 (optional)	

<b>Accessories</b>	
30-512 MHz 45-inch blade antenna (included)	
Rechargeable lithium-ion battery (included)	
Operator's manual (included)	
Holster	
RF-5912-PS001 Battery Eimator	
RF-5911-PS001 AA Battery Adapter	
RF-6650 Communication Programming Application (CPA)	
Audio headsets, H-250 handset	
RF-300M-HV Vehicular Adapters	
12041-3100-01 Lapel Speaker/Mic	



High Band AN/PRC-152 with GPS



20-meter submersible AN/PRC-152



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