



TYPE-1 MULTIBAND MULTIMISSION HANDHELD RADIO

AN/PRC-152

FEATURES

- > 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 (optional)
- > Embedded GPS (optional)
- > IW and DAMA (optional)
- > MELP
- > Wireless cloning
- > TX/RX OTAR
- > Long-life removable/replaceable Hold-up Battery (HUB)
- > Supports multiple mission plans

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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 for line-of-sight operation and 10 watts in UHF SATCOM band. 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 many 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 IW-SATCOM, which includes MIL-STD-188-181C (5 KHz) and 183B (25 KHz). The JTRS-approved AN/PRC-152 is the first and only 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.

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, 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 compact handheld form-factor.

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-810G.

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.

SPECIFICATIONS FOR: AN/PRC-152

GENERAL

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

SPECIFICATIONS

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)
Color	CARC Green 383

TRANSMITTER

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

RECEIVER

FM Sensitivity	-119 dBm (12 dB SINAD) Typical
FM Deviation	5, 6.5 and 8 kHz
Adjacent Channel Rejection	Greater than -40 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, SKL
Crypto Modes	KY-57, ANDVT/KYV-5, KG-84C, FED-STD-1023, Suite B AES
Radios	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
GPS	PLGR, DAGR

INTERFACES

External Data	RS-232
Programming/Remote Control	USB/RS-232
Antenna	50 Ohm TNC
Audio	Six-pin (standard)

ENVIRONMENTAL

Temperature	Radio -30°C to +60°C Radio with Li Ion Battery: -20°C to +60°C
Immersion	2 meters standard (watertight for 30 minutes minimum) 20 meters option (watertight for 2 hours minimum)
Test Method	MIL-STD-810G

WAVEFORMS

IW with MIL-STD-188-181C and MIL-STD-188-183B (optional)
DAMA with 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)
HPW-IP (optional upgrade)
APCO P25 (optional)

ACCESSORIES

INCLUDED

30-512 MHz 45-in Blade Antenna
Rechargeable Lithium-Ion Battery
Owner's Manual

OPTIONAL

Holster
RF-5912-PS001 Battery Eliminator
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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