The Harris Falcon III AN/PRC-152A delivers simultaneous voice and high-speed data, seamlessly connecting dismount and upper-echelon networks. This handheld solution employs next-generation wideband waveforms—Soldier Radio Waveform and Harris Adaptive Networking Wideband Waveform (ANW2®C)—for reliable and secure mobile ad-hoc networking. Even in challenging environments, the AN/PRC-152A provides voice, data, imagery and video, giving warfighters critical mission intelligence for enhanced decision-making.

HARRIS FALCON III®
AN/PRC-152A
TYPE 1 WIDEBAND NETWORKING
HANDHELD RADIO

KEY BENEFITS

Multi-mission capable with wideband on-the-move networking, SATCOM and legacy narrowband interoperability

Harris Sierra™ II software-programmable encryption

NSA-certified up to TOP SECRET

Software-upgradable with SCA v2.2.2 compliance (no waivers)

JTNC certified SRW

This Harris Type 1 Wideband Networking Handheld features a complete set of narrowband line-of-sight and UHF SATCOM capabilities, ensuring interoperability with wideband, legacy and public safety systems. Plus, voice and data are NSA-certified secure up to TOP SECRET through the embedded Harris Sierra II encryption module.

The AN/PRC-152A covers the multiband frequency range, with 5 W transmit power for line-of-sight narrowband waveforms including SINCgars, HAVEQUICK I/II, and AM/FM VULOS, and a 10 W burst for legacy SATCOM. Its standard highband enhancement increases frequency coverage to 520 MHz, and adds the 762-870 MHz band for APCO P25 conventional and trunking interoperability.
## GENERAL

**RT Nomenclature**
RT-1916x(P)(C)/U

**Frequency Range**
- 30-520 MHz, 762-870 MHz
- Narrowband: VHF 30-225 MHz, UHF 225-512 MHz
- Legacy SATCOM: RX 243-270 MHz, TX 291-318 MHz
- Highband (VULOS/P25): 512-520 & 762-870 MHz
- Wideband: 225-450 MHz

**Channel Spacing/Bandwidth**
- Narrowband: 8.33, 12.5, 25 kHz-AM, 12.5, 25 kHz-FM
- SATCOM: 5 kHz, 25 kHz
- Wideband: 500 kHz, 1.2 MHz
- FM deviation: 5 kHz, 6.5 kHz, 8 kHz

**Net Presets**
99 fully programmable system presets

**Internal GPS**
Optional internal commercial Jupiter J2 GPS

**Management Tool**
Windows® Communications Planning Application JENM compatible

**Frequency Tuning**
- Front panel: 100 Hz
- ASCII remote: 1 Hz
- Highband: 5 kHz
- AWX2C: 5 kHz

**Software Environment**
SCA v2.2.2 (JTEL certified)

**Frequency Stability**
$1 \times 10^{-6}$ (drift ±0.5 ppm over one year)

## TRANSMITTER

**Power Output**
User programmable 250 mW to 5 W
10 W SATCOM burst mode

**Harmonic Suppression**
40 dB

## RECEIVER

**Sensitivity**
- LOS FM: 30-152 MHz, -116 dBm @ 12 dB SINAD
- LOS AM: 30-512 MHz, -103.5 dBm @ 10 dB SINAD
- with 30% modulation
- TACSAT FM: 225-270 MHz, -120 dBm @ 10 dB SINAD

**Adjacent Channel Rejection**
≥ -40 dB

**Squelch**
Selectable tone, noise, digital (CDCSS, CTCSS), none

## POWER

**Power Input**
9.6 to 14 VDC

**Power Consumption**
- ≤ 4.0 amps at 10.8 VDC (≤ 43 W at 10.8 VDC)

## SECURITY

**Encryption**
Sierra™ II-based, Type 1 encryption (suite A/B), NSA-certified TOE SECRET and Below

**Encryption Modes**
KY-57 (VINSON), KYV-5 (ANDV), KG-84C, FASCINATOR, T5CC, VULOS, HPW, HAPE (PPK/FFV), AES (Type 1 & 3), Type 3 DES

**Key Fill Device Compatibility**
ANCY2-10 DTD, KX-18, KX-13, KX-15, MX-18290, ANP5Y010 (SKL), KJK-11 (TKL), KJK-20, KVL-3000/4000

**Key Storage**
Up to 300

**Modes**
DS101, DS102, MODE 2/3, USB

## MODES AND WAVEFORMS

**Narrowband Waveforms**
- AM/FM, VULOS, SINCGARS & HAVEQUICK I/II (standard), HPW, HPW IP, APCO P25 Phase 1 trunking, conventional and OTAR (optional)

**Wideband Waveforms**
ANAW2C (standard), SRW (optional)

**UHF SATCOM Waveforms**
- MIL-STD-188-181B dedicated channel (standard)
- MIL-STD-188-182A, 183A DAMA (optional)
- High Performance Waveform (HPW) & HPW IP (optional)
- SATCOM TDMA Capability (STC) waveform (optional)

**Voice and Data Modes**
Simplex or half-duplex and plain text analog voice SINCGARS EECM (0.0-87.975 MHz)
- HAVEQUICK EECM (225.0-399.975 MHz)
- Wideband CT digital voice (16 kbps; CVSD; KY-57)
- Narrowband CT digital voice (2.4 kbps; LPC-10, ANDVT)
- MELP for adaptive networking
- Wideband Waveform (ANAW2C)

## PHYSICAL

**Dimensions (with battery)**
- Non-GEN: 9.6 H x 3.0 W x 1.9 D in (24.5 H x 7.6 W x 4.8 D cm)
- With GPS: 10.25 H x 3.0 W x 2.5 D in (26.5 H x 7.6 W x 6.4 D cm)

**Volume (with whip antenna and battery)**
- Non-GEN models: 40 in³ (655.5 cm³)
- GPS models: 42 in³ (688.3 cm³)

**Weight (with battery and antenna)**
- Non-GEN models: 2.5 lbs. max (1.1 kg)
- GPS models: 2.7 lbs. max (1.2 kg)

**Color/Finish**
CARC Green per FED-STD-595B, (optional black)

## ENVIRONMENTAL

**Shock and Vibration**
MIL-STD-810G for tracked vehicles, wheeled vehicles, and shipboard

**Immersion**
- Standard unit: 6.6 ft. (2.0 m) of water for 30 minutes
- 20-meter version: 66 ft. (20 m)

**Temperature**
- Operating: -22.0° F to +140° F (-30° C to +60° C)
- Storage: -22.0° F to +158° F (-30° C to +70° C)

**Sand/Dust/Salt/Fog/Rain**
MIL-STD-810F

## INTERFACES

**External Data**
USB, USB RNDIS host and device, Ethernet, RS-232, EEM

**Audio**
Standard 6-pin ADF

**Antenna Port**
50 Ohm TNC (female)

**Programming**
USB

**Function Knob**
Off, 1-5 presets, scan, front panel, Z-All, PT, LD & CT

**Remote Control**
USB, RS-232, Remote Keypad Display Unit, Software Keypad Display Unit

See Product Catalog for accessories.

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**About Harris Corporation**
Harris Corporation is a leading technology innovator, solving customers’ toughest mission-critical challenges by providing solutions that connect, inform and protect. Harris supports government and commercial customers around the world.

Learn more at harris.com