



# HARRIS FALCON III<sup>®</sup> AN/PRC-152A

## TYPE 1 WIDEBAND NETWORKING HANDHELD RADIO

**SECURE, ON-THE-  
MOVE NETWORKING  
WITH MULTI-MISSION  
CAPABILITIES**

### 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

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<sup>®C</sup>)—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.

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.

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

**GENERAL**

<b>RT Nomenclature</b>	RT-1916x(P/C)/U
<b>Frequency Range</b>	30-870 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
<b>Channel Spacing/Bandwidth</b>	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
<b>Net Presets</b>	99 fully programmable system presets
<b>Internal GPS</b>	Optional internal commercial Jupiter JF2 GPS
<b>Management Tool</b>	Windows® Communications Planning Application JENM compatible
<b>Frequency Tuning</b>	Front panel: 100 Hz ASCII remote: 1 Hz Highband: 5 kHz ANW2®C: 5 kHz
<b>Software Environment</b>	SCA v2.2.2 (JTEL certified)
<b>Frequency Stability</b>	1x10 <sup>-6</sup> (drift ±0.5 ppm over one year)

**TRANSMITTER**

<b>Power Output</b>	User programmable 250 mW to 5 W 10 W SATCOM burst mode
<b>Harmonic Suppression</b>	40 dB

**RECEIVER**

<b>Sensitivity</b>	LOS FM: 30-152 MHz; -116 dBm @ 12 dB SINAD LOS AM: 90-512 MHz; -103.5 dBm @ 10 dB SINAD with 30% modulation TACSAT FM: 243-270 MHz; -120 dBm @ 10 dB SINAD
<b>Adjacent Channel Rejection</b>	≥ -40 dB
<b>Squelch</b>	Selectable tone, noise, digital (CDCSS, CTCSS), none

**POWER**

<b>Power Input</b>	9.6 to 14 VDC
<b>Power Consumption</b>	≤ 4.0 amps at 10.8 VDC (≤ 43 W at 10.8 VDC)

**SECURITY**

<b>Encryption</b>	Sierra™ II-based, Type 1 encryption (suite A/B), NSA-certified TOP SECRET and Below
<b>Encryption Modes</b>	KY-57 (VINSON), KYV-5 (ANDVT), KG-84C, FASCINATOR, TSVCIS, VULOS, HPW, HAIPE (PPK/FFW), AES (Type 1 & 3), Type 3 DES
<b>Key Fill Device Compatibility</b>	AN/CYZ-10 DTD, KOI-18, KYK-13, KYX-15, MX-18290, AN/PYQ-10 (SKL), KIK-11 (TKL), KIK-20, KVL-3000/4000
<b>Key Storage</b>	Up to 300
<b>Modes</b>	DS101, DS102, MODE 2/3, USB

**MODES AND WAVEFORMS**

<b>Narrowband Waveforms</b>	AM/FM, VULOS, SINCGARS & HAVEQUICK I/II (standard), HPW, HPW IP, APCO P25 Phase 1 trunking, conventional and OTAR (optional)
<b>Wideband Waveforms</b>	ANW2C (standard), SRW (optional)
<b>UHF SATCOM Waveforms</b>	MIL-STD-188-181B dedicated channel (standard) MIL-STD-188-182A, 183A DAMA (optional) MIL-STD-188-181C, 183B IW Phase 1 (optional) High Performance Waveform (HPW) & HPW IP (optional) SATCOM TDMA Capability (STC) waveform (optional)
<b>Voice and Data Modes</b>	Simplex or half-duplex and plain text analog voice SINCGARS ECCM (30.0-87.975 MHz) HAVEQUICK ECCM (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 (ANW2C)
<b>Transmission Modes</b>	AM, ASK, FM, FSK, PSK, CPM, GMSK

**PHYSICAL**

<b>Dimensions (with battery)</b>	Non-GPS: 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)
<b>Volume (with whip antenna and battery)</b>	Non-GPS models: 40 in <sup>3</sup> (655.5 cm <sup>3</sup> ) GPS models: 42 in <sup>3</sup> (688.3 cm <sup>3</sup> )
<b>Weight (with battery and antenna)</b>	Non-GPS models: 2.5 lbs. max (1.1 kg) GPS models: 2.7 lbs. max (1.2 kg)
<b>Color/Finish</b>	CARC Green per FED-STD-595B, (optional black)

**ENVIRONMENTAL**

<b>Shock and Vibration</b>	MIL-STD-810G for tracked vehicles, wheeled vehicles, and shipboard
<b>Immersion</b>	Standard unit: 6.6 ft. (2.0 m) of water for 30 minutes 20-meter version: 66 ft. (20 m)
<b>Temperature</b>	Operating: -22.0° F to +140° F (-30° C to +60° C) Storage: -22.0° F to +158° F (-30° C to +70° C)
<b>Sand/Dust/Salt/Fog/Rain</b>	MIL-STD-810F

**INTERFACES**

<b>External Data</b>	USB, USB RNDIS host and device, Ethernet, RS-232, EEM
<b>Audio</b>	Standard 6-pin ADF
<b>Antenna Port</b>	50 Ohm TNC (female)
<b>Programming</b>	USB
<b>Function Knob</b>	Off, 1-5 presets, scan, front panel, Z-All, PT, LD & CT
<b>Remote Control</b>	USB, RS-232, Remote Keypad Display Unit, Software Keypad Display Unit

See Product Catalog for accessories.

**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](http://harris.com).

FLORIDA | NEW YORK | VIRGINIA | BRAZIL | UNITED KINGDOM | UAE | SINGAPORE

**Non-Export Controlled Information**

Harris is a registered trademark of Harris Corporation. Trademarks and tradenames are the property of their respective companies.

© 2017 Harris Corporation 5/17 DS475K

