



## WIDEBAND NETWORKING RADIO

# AN/PRC-152A

### FEATURES

- > Supports PLGR DAGR
- > SCA v2.2 compliant (no waivers)
- > Built-in speaker/microphone
- > Full numeric keypad
- > Sierra II based Type-1 encryption
- > Narrowband legacy
- > Waveform support
- > NVG compatible display
- > Internal GPS (option)
- > Supports multiple mission plans



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The FALCON III® AN/PRC-152A wideband networking radio provides voice, high-speed networked data, and full-motion video services on the move. Covering the 30 to 512 MHz frequency range the multiband radio also comes with an optional high band enhancement that increases the radios frequency coverage to 30-512 MHz and 762-870 MHz for select waveforms. The AN/PRC-152A provides interoperability with traditional narrowband waveforms such as SINCGARS, Havequick II, and VHF/UHF AM and FM in the 30-512 MHz range. Additionally, the radio supports wideband (e.g. 1.2 MHz Bandwidth) networking waveforms from 225 to 450 MHz.

The AN/PRC-152A features the Software Communications Architecture (SCA) operating environment, providing the optimal transition to software defined radio technology. SCA architecture enables the upgrade to future waveforms supporting the evolution of communications from legacy narrowband to network centric wideband operations. Secured with the Harris Sierra™ II encryption module, the AN/PRC-152A provides voice and data security up to the TOP SECRET level.

The AN/PRC-152A provides high-speed networked data using the Harris Adaptive Networking Wideband Waveform (ANW2) and will be software upgradeable to support Soldier Radio Waveform (SRW). ANW2 uses innovative intelligent protocols that do not require the presence of a designated network control station—each radio automatically discovers and joins an authorized network. Ad-hoc networking allows automatic and transparent relay through an available station. It also heals the network if a station leaves, ensuring network reliability.

ANW2 provides situational awareness and data on demand, seamlessly linking dismounted soldiers with upper-echelon networks. The radio quickly and efficiently transmits mission-critical voice, data and video in the most challenging urban communications environments.

The AN/PRC-152A is the wideband radio that can deliver IP-based mobile ad-hoc networking to warfighters at the tactical edge.

# SPECIFICATIONS FOR: AN/PRC-152A



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## GENERAL

<b>Frequency Range</b>	30-512 MHz (narrowband) 225-450 MHz (wideband) 30-520, 762-870 MHz (NB optional)
<b>Channel Spacing</b>	Narrowband (NB) 12.5 kHz, 25 kHz Wideband (WB) 1.2 MHz
<b>Presets</b>	99 (standard); unlimited using multiple mission plan files
<b>Tuning Resolution</b>	Tuning Resolution 10 Hz
<b>Software Environment</b>	SCA v2.2
<b>Frequency Stability</b>	+/- 0.5 ppm
<b>Output Power</b>	250 mw to 5W Burst mode: 10W (SATCOM modes)

## SPECIFICATIONS

<b>Dimensions (With GPS)</b>	2.9 W x 9.6 H x 1.9 D in. (with battery) 2.9 W x 9.6 H x 2.5 D in. (with battery)
<b>Weight (With GPS)</b>	2.5 lbs max (with battery and antenna) 2.7 lbs max (with battery and antenna)
<b>Volume (With GPS)</b>	40 in <sup>3</sup> (with battery) 42 in <sup>3</sup> (with battery)
<b>Color</b>	CARC Green 383

## VOICE AND DATA MODE

<b>WIDEBAND</b>	
<b>Voice Mode</b>	CNR Voice Mode
<b>Data Mode</b>	64 kps to 170 kbps GMSK, 380 kps to 1.2 Mbps PSK (includes video)
<b>NARROWBAND</b>	
<b>Voice Mode</b>	AM/FM Line of Sight, SINCGARS SC/FH, HAVEQUICK II
<b>Data Mode</b>	16 kbps FSK/ASK

## RECEIVER

<b>FM Sensitivity</b>	-116 dBm 12 dB SINAD (typical)
<b>FM Sensitivity</b>	5, 6.5, and 8 kHz
<b>Adjacent Channel Rejection</b>	Greater than -40 dB
<b>Squelch</b>	Selectable (Tone, Noise, CDCSS, CTCSS)

## INTERFACE

<b>External DATA</b>	RS-232
<b>Narrowband</b>	USB
<b>Wideband</b>	USB/RNDIS
<b>Antenna</b>	50 Ohm TNC
<b>Programming Remote Control</b>	Six-pin standard

## ENVIRONMENTAL

<b>Temperature</b>	-30°C to +60°C Radio with Li Ion Battery -20°to -60°C
<b>Immersion</b>	2 meters
<b>Test Method</b>	MIL-STD-810G

## WAVEFORMS

<b>Narrowband Waveforms</b>	AM/FM VHF/UHF LOS Highband Frequency (optional) SINCGARS HAVEQUICK I,II HPW (optional) HPW-IP (optional) APCO P-25 (future) IW (future)
<b>Wideband Waveforms</b>	ANW2 SRW (future)

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