HARRIS®

FALCON® II
AN/PRC-150(C)

High-Frequency

Manpack Radio

Soldier Tested.
Combat Proven.

The AN/PRC-150(C) provides secure voice and data transmission using U.S. Type 1 encryption.

Harris FALCON II tactical radios. **Intuitive. Tough. Unstoppable.**

It's no coincidence that the soldiers who use them can be described the same way. They're the inspiration for our design.

Our software-defined radios are an extension of the soldiers who carry them into combat. Precise. Reliable. Unfailing. Everything that goes into FALCON II is meticulously engineered. But Harris knows the most advanced technology can fall short if it can't perform on the battlefield. That's why we've encapsulated our radios in a rock-solid package. As a result, soldiers get secure voice and data capabilities with unparalleled performance, even in the harshest conditions.

For missions requiring reliable, long-range communications equipment, Harris has developed the FALCON II AN/PRC-150(C), the most advanced HF manpack radio in the world today.

The AN/PRC-150(C) is certified by the National Security Agency (NSA) for its embedded information security features. It's designed to meet the demanding security requirements of military forces worldwide.

Designed to *Succeed.*

At the heart of every FALCON II radio is its software-based design. This open software architecture extends radio hardware life cycles and facilitates the insertion of new technology and capability through software upgrades. More than a dozen HF waveforms and major features have been added since FALCON II's introduction.

Usability was a key design objective from day one. The radio features a removable keypad/display unit allowing soldiers to fully control the radios even when the radios are buried in their rucksacks.

Harris has embedded the encryption into the radio, eliminating the need for external boxes. This embedded COMSEC allows secure ground-to-ground and ground-to-air communications in all HF modes and in fixed-frequency modes with SINCGARS radios.

When used to communicate with coalition forces, the AN/PRC-150(C) can be switched from Type 1 to Citadel® encryption, allowing secure interoperability with the thousands of FALCON II exportable radio users.

AN/PRC-150(C)

■ NSA-certified U.S. **Type 1** encryption.

■ Second- and third-generation **Automatic Link Establishment** (ALE) provides faster and more reliable linking and increased data link throughput, even in degraded channel conditions.

■ An internal, high-speed, serial-tone modem provides data operation **four times faster** than older legacy systems.

■ Embedded software provides an **Internet Protocol** capability that allows the radio to interface with the U.S. Army's Tactical Internet without external boxes.

■ Advanced **frequency hopping** (ECCM) allows secure communications in the presence of jamming.

■ To further reduce the probability of being discovered by the opposition, an optional **low probability of intercept/ detection** protocol hides and minimizes on-air transmission time.

■ **MELP** technology, the latest digital voice algorithm, provides better voice communica- tion over stressed HF channels.

■ A PLGR **GPS** receiver interface provides precise timing and position information to the radio.

■ **Rugged** tactical radio packaging ensures superior performance even in the most treacherous terrain.

Dependability *in the Field*

Thousands of AN/PRC-150(C) radios have been delivered to U.S. and Allied forces since their introduction in 2000. They have been deployed in many theaters and have been combat tested in the War on Terrorism.

A few of the active users of the AN/PRC-150(C) include:

- **U.S. Special Operations Command**

- **U.S. Marine Corps**

- **U.S. Navy**

- **U.S. Army**

The formation of the Stryker Brigade Combat Teams (SBCT) are part of the U.S. Army's transformation program to develop rapidly deployable, more capable forces. Through the use of advanced technology, the SBCT allows missions over a particular geographic area to be accomplished with a much smaller force than was previously required. Harris' lightweight, long-range AN/PRC-150(C) radios offer soldiers the benefit of staying in contact over great distances.

Keep looking forward. *We've got your back.*

Strategy. Planning. Mission Execution. Defense forces leave nothing to chance. And, neither does Harris. Our uniquely designed radios are field tested and proven to meet the most exacting combat conditions. When you buy Harris radios, you don't just buy a product. You buy a team. Our engineers, sales force, and customer support team are second-to-none. For every move you make on the field, Harris is right behind you.

Constantly Redefining
State of the Art

The result of *20 years*
of tactical technology leadership and innovation

Embedded COMSEC
Type 1 and coalition COMSEC provide secure voice and data.

Programmable hardware platform
Supports high-performance waveforms, today and tomorrow.

Advanced ECCM waveforms
Serial-tone frequency hopping greatly improves communications reliability in a jamming environment.

High-speed data
A JITC-certified 9600 bps internal high-performance serial tone modem is MIL-STD-188-110B compliant for transmission of messages, images, situational awareness, and other data.

Removable keypad display unit
Provides radio control for operations on the move.

Crypto ignition key
Embedded in the removable keypad, secures unattended radios.

Intuitive Man-Machine Interface (MMI)
Programmable system presets for "one-button" operation.

Automatic antenna tuning
Internal tuning unit matches a wide variety of whip, dipole, and long-wire antennas automatically.

Automatic Link Establishment (ALE)
Advanced ALE simplifies HF operation by quickly and automatically selecting an acceptable channel.

Robust digital voice
Advanced MELP digital voice significantly improves secure communications range, reliability, and quality.

RF Communications

Government

Broadcast

Telecommunications

Communications solutions for today and beyond

Harris RF Communications Division is a leading supplier of secure voice and data communications products, systems, and networks to military, government, and commercial organizations worldwide.

Harris Corporation is an international communications equipment company focused on providing product, system, and service solutions for commercial and government customers. With more than 10,000 employees, including 4,000 engineers and scientists, Harris is a technology powerhouse. The Corporation has sales and service facilities in nearly 90 countries.

HARRIS®

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