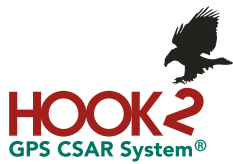


Quickdraw2® Handheld GPS Interrogator

Turns any aircraft into a CSAR aircraft



Available Now

Portability allows for plug-and-play on over 40 aircraft;
no aircraft modifications required

Encrypted, direct, cockpit to survivor communications (TAC)

Displays survivor GPS coordinates in multiple formats

Quickdraw2 functionality embeddable in other systems

Direct, Cockpit-Survivor Communications

The handheld General Dynamics Quickdraw2® Interrogator quickly plugs into the intercom system of virtually any aircraft, both rotor and fixed-wing, transforming it into a Combat Search and Rescue (CSAR) platform. The Quickdraw2 Interrogator is more flexible and much more economical than existing radios/interrogators built into aircraft.

Terminal Area Communications (TAC) with No Aircraft Modifications

The Quickdraw2 Interrogator interrogates the AN/PRC-112G®, B1 or B radio via the aircraft's onboard UHF line-of-sight radio. Field-tested and operational on a variety of deployed aircraft, the Quickdraw2 Interrogator has also been flight certified by the US Navy. It has been effectively used on high-altitude reconnaissance aircraft to automatically relay the interrogation reply to another Quickdraw2 on the ground or onboard a manned aircraft. This same capability has been employed on a UAV as well.

UHF-Compatible — Compact Yet Powerful

The General Dynamics Quickdraw2 Interrogator is compatible with UHF radios for mobile or fixed applications.

The architecture includes:

- User interface consisting of a keypad and LCD display.
- RS-232 port provides for easy programming using the GPS-112 Program Loader
- Alert features that notify the operator – via audio or a flashing LED – when a new message is received
- Modem with error correction and encryption
- Intercom interface with automatic level control
- Night vision goggle (NVG) compatible

Additional HOOK2®- Compatible Systems

Embedded interrogators integrate the HOOK2 waveform into the Rockwell Collins RSC-125G¹ Personnel Locator System and the Cubic AN/ARS-6 Version 12 PLS^{®2}, providing Quickdraw functionality in a fixed-system airborne radio. This integrates Terminal Area Communications and Terminal Area Guidance into one platform.

Quickdraw2® Interrogator

GSA Order: GS-35F-0060N

Schedule #70 • SIN 132-8

Additional HOOK2® GPS CSAR System Components:

The AN/PRC-112G® Transceiver

The upgraded AN/PRC-112G Transceiver is a software defined radio. New capabilities like 406 SARSAT and 2-way SATCOM via software download can be added.

It retains all of the features of the legacy AN/PRC-112B1 radio. Future possible upgrades like DAMA-C and other waveforms can be downloaded as they are available. The radio also has space to accommodate future hardware upgrades, such as SAASM GPS or L-band GPRS, without increasing radio size.

The AN/PRC-112B1 Transceiver

The AN/PRC-112B1 Transceiver, when used in conjunction with the Quickdraw2 Interrogator, allows a downed airman to be located quickly, accurately and securely.

The GPS-112 Program Loader

The GPS-112 Program Loader consists of interface hardware, a cable set and a Windows®-based software package to enable the user to easily and quickly load encryption key, datum, frequencies and user I.D. codes into all HOOK2 Transceivers and Interrogators, as well as the legacy AN/PRC-112 radios. A set-up wizard and a cloning feature allow for multiple unit programming, and installs new software as upgrades become available.

Benefits

Accurate

- Displays range/bearing to AN/PRC-112G, B, or B1 radios
- Includes error correcting communication and bit interleaving

Secure

- Provides data burst encryption (DES)

Rugged

- Isolated battery compartment
- Metal case for better EMI
- Rain resistant

Easy to use

- Provides handheld operation
- Easy to navigate menu structure
- Features a NVG-compatible backlit LCD display and keypad

- Custom aircraft communications cable incorporate Quickdraw2 communications without disabling voice communications
- Situation report feature present survivor status, threats, and landing zone info in one databurst
- Provides auto-interrogation and auto-forward

Flexible

- Integrated on over 40 different aircraft
- Interoperable with various aircraft intercoms and headsets
- Allows the user to employ normal PTT and audio communications
- Holds up to 25 mission-specific messages
- Supports canned and free-formatted text messages from HOOK2 radios

Energy Efficient

- Powered by 4 AA batteries

Technical Specifications

General:

Power Four commercially available AA batteries

Size: 42 cu. in. (688.26 cc)

Weight: 24 oz. (.68 kg) w/o batteries and cables

Operational Temp: -30°C to +55°C

Storage Temp: -40°C to +80°C

Modulation:

Data Burst 455ms

Data Modulation MSK 1200/2400BPS

Data Forward Error Encoding Correction

Encryption DES

Audio Interface:

The audio interface meets the requirements of C-11746 (Model 449, "Communications System Control C-11746, Power and Signal Requirements" document) Compatible with various Tempest and non-Tempest headsets including the H-189/GR or H-250/U handsets



1. RSC-125G is manufactured by Rockwell Collins – France.
2. AN/ARS-6 is manufactured by Cubic Defense Systems, San Diego, CA. PLS is a registered trademark of Cubic Defense Systems.

GENERAL DYNAMICS C4 Systems

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