

## Adaptable Communications for In-Mission Rapidly Changing Operational Environments



Barrett Communications offers the PRC-2090 as a high-frequency (HF) radio solution for rapidly changing operational environments.

The system is designed to be easily interchangeable between vehicle and manpack configurations. This is possible due to the transceiver being cassette-loaded into the vehicle docking station for mobile use and returned to a manpack configuration for on-foot patrol.

The PRC-2090 rugged tactical HF transceiver is designed to provide proven field-deployable secure communications with a range of features.

Capable of operating in adverse environments, the radio complies with MILSTD 810G regulations for shock and vibration. It is immersible to depths of 1m and operates in temperatures ranging from -40°C to 70°C.

### **Software-defined transceiver**

PRC-2090 features a software-defined core, which offers enhanced memory capacity and increases the radio's lifecycle and upgrade capability.

Its software-based architecture allows radio transceiver equipment to be maintained with software upgrades to ensure it is up-to-date with the latest product features as soon as they are made available.

### **Advanced tactical communications features**

Designed for rapidly changing tactical environments, the PRC-2090 transceiver is fully interoperable with various digital selective calling systems. It can also be used by peacekeeping and non-government organisations.

The radio features multi-standard four and six digit selective call capabilities. These include telephone interconnect, SMS, status calling, and global positioning system (GPS) tracking. Point-to-point or multi-point secure calling is available, in addition to remote disabling.

### **Enhanced DSP noise reduction**

PRC-2090 is equipped with a digital signal processor (DSP), which digitally removes background noise or interference to provide clear voice communications on analogue circuits.

Standard DSP noise reduction ensures optimal voice quality for improved listening by reducing radiofrequency and electrical interference through the enhancement of audio signals.

### **Lightweight, compact design**

The PRC-2090 is made of lightweight alloy materials, weighing 3.9kg. When equipped with a 10Ah quick-change Lithium Ion battery cartridge, the radio weighs 5.2kg.

Designed as a portable solution, the radio is one of the smallest available on the market. This makes it comfortable to wear and operate in a tactical environment.

The transceiver has an advanced fully detachable display that allows operators to operate the system without dismounting the unit from the manpack. It can be fitted with an extended control interface for tactical operations.

### **Extended operation time**

PRC-2090 operates with a low current consumption, which enables it to operate for more than 20 hours on one battery cartridge.

Small lightweight spare batteries can be quickly exchanged and include an in-built charge management circuit. This ensures they are charged while fitted and in operation or at any separate power source such as solar, hand crank or wind generator.