

RT-5000

Remote-mount, multi-band, AM/FM Transceiver



FAQs



The RT-5000 tactical Radio offers unique capabilities for military and Public safety communications. Before trusting this solution, our current customers wanted to know what exactly makes the difference with other available solutions. And today, more than 2,500 systems have been installed.

We have gathered their recurrent questions, hoping you will find an answer to yours.

- What is the RT -5000?

The RT-5000 is a multi-band, tactical V/UHF transceiver, designed to communicate with various operators, ranging from ground forces, ATC, marine and air force to first responders, law enforcement, firefighting, coast guards, emergency medical services and other public safety and governmental agencies. And all that from a single unit. The RT-5000 is part of the Flexcomm radio family designed and manufactured by Canyon as the most versatile solution available on the market.

- What does RT-5000 offer that wouldn't do another tactical radio?

With a single radio transceiver, communications can be made within the 29.7 MHz and 960 MHz. It can thus replace up to six transceivers, saving significant space and weight. Obviously, Canyon also designs and manufacture wide -band active and passive V/UHF antennas. Thus, the system is reduced to a single transceiver, a single antenna, and the associated control head (such as the C-5000 or CD-5000 dedicated controller)

- What does the addition of a "guard" receiver bring to the user?

It gives the possibility of monitoring an additional frequency. This guard receiver is fully synthesized and covers the same 29.7-960 MHz range as the main transceiver.

- Which type of users can take advantage from this kind of Radio?

The RT-5000 has been designed to meet Public Safety and military requirements. Thus, this radio (with associated antenna and Control Head) is currently installed on most aircraft and rotorcraft of US federal agencies, such as US Coast Guard, Army National Guards and US Forest Service fleets.

- So, is this product limited to the US market?

The fact that it's used by most US federal agencies simply proves that it's perfectly fitted for Public Safety missions. However, the RT-5000 is not limited to the US market. For example, it's currently installed on board aircraft operating in Canyon, Brazil, Australia, Slovenia, and Mexico...

- Does it have trunking capabilities?

Yes, it offers the possibility to add modules performing trunking. Following your requirements, RT-5000 transceiver can be designed to cover additional frequency bands or to have specific features. Contact the Canyon Customer Service department for details on how to easily upgrade your C-5000 and RT-5000.

- Would the RT-5000/C-5000 be more expensive than my standard transceivers and controllers?

As the system is only composed of a Transceiver, a control head and a single antenna, it offers lower costs than other systems from the competition. Furthermore, every model RT-5000 can be upgraded, to perform P-25 Digital modulation across the entire range for example, without antennas or wiring changes.

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- Can I control a RT-5000P with a standard C-5000?

Yes, but all P-25 specific features such as SCAN and P-25 require a C-5000P or an ARCDU controller.

- Do you have to type in Main P-25 information into two programs like you have to do with the Motorola modules?

No. FCT is used to enter database information once. However, you must perform a download into both the C-5000P and the RT-5000P. Motorola channel information (Channel Name, RX & TX frequencies, Zones, and Channels only) must also be entered into FCT for use by the C-5000P.

- Are there any advantages to upgrading an Analog C-5000 even if I don't need P-25 capability?

Yes, the Digital user interface is much easier to operate. The manual mode is more agile.

- Does it require the installation of a separated dedicated radio controller?

In addition to the C-5000 and the CD-5000 control panel, Canyon products range also includes the ARCDU, a single point to control for all audio and radios. In general terms, Canyon RT -5000 is compatible with all Radio management systems developed by Canyon . Thus, you can envision a combination of your Radio management solutions to save space rather than losing it adding another control panel in your cockpit.

- Can I program a channel during the flight if required?

Yes, you do NOT need a computer in order to program channels on the RT-5000P transceiver.

You can:

- Dial-into a P-25 "on-the-fly" using the Canyon exclusive "Manual" channel, or
- Enter a new channel from the front panel, or
- Program complete channel databases with our user-friendly "Canyon FTC Software"

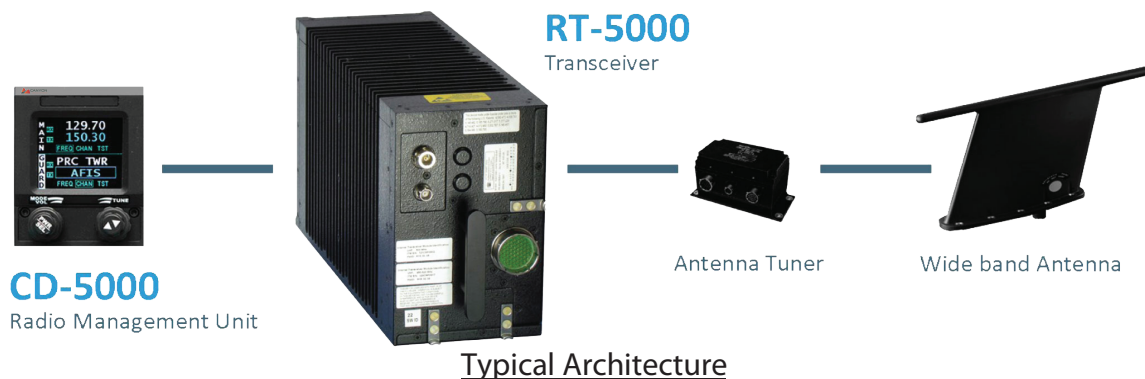
By and large, you can program the unit from the front panel eliminating the need to use Motorola software tools.

- In case an RT -5000 should be sent for repair, is there a repair station available nearby?

Canyon has developed a large network of repair stations around the world to ensure a reliable support of its equipment. Just call our Customer Service Department to find the nearest repair station.

How does the RT-5000 benefit from Cobham's experience with communications systems?

Cobham has been developing communications systems for over 60 years. Thus, Canyon is now a recognized supplier for most of the US agencies such as the US Forest service. Thanks to this long-standing cooperation, Canyon products are designed meet perfectly the stringent requirements of Public service operations and are improved in parallel of the evolution of their missions.



For further information please contact:

Canyon Aerospace Communications
6400 Wilkinson Drive
Prescott, AZ 86301 USA

T: +1 (928) 705 1550

F: +1 (928) 541 7627

E: sales.prescott@canyon.com

Canyon Aerospace Communications
35, rue de Monthéry
Sillic—BP 20191
94563 Rungis Cedex France

T: +33 1 49 78 66 00

F: +33 1 49 78 66 99

E: sales.rungis@canyon.com

More Information

For more details about systems integrating RT-5000, please contact us and consult our RT-5000, Helicopter and Special Mission Aircraft leaflets.