Virtual radio / dispatch software for an IDAS™ conventional IP network system

Control your radio system from a remote office with the RC-FS10 remote communicator. It creates a virtual radio/dispatcher on a Windows® PC. The PC software provides a minimum set of programmable dispatcher console-like functions, like simple repeater control.

The communicator allows for scalable capacity. One remote communicator can connect up to 8 repeaters, or 8 remote communicators can connect to one repeater.

The software is easy to use with a flexible button layout on the PC monitor. Users can program capabilities found in subscriber units on their PC like stun, revive, emergency, status, etc. Users can also log calls and text messages to other users (up to 10 characters). There are also three levels of password security.

Included with the RC-FS10 is the CT-24 USB VOCODER unit. The CT-24 is a digital voice converter unit, which digitally compresses the voice into a digital data stream. It also has an ESN used for unit identification.

The optional CT-23, desktop microphone adapter, allows the user to attach the SM-25 desktop mic or an HM-152 speaker microphone to the computer. The microphone will work just like it would if it were connected to a radio. A PC headset can also be used. The PTT function is provided by a screen button in case a PC headset is used.

SDK / API documentation for third party software developers is available under agreement. Contact Icom America for details.

Icom America Inc.
Around your campus, across your county and even around the country.

Coordinate your in-the-field workforce using IDAS™ Remote Communicators.

- **Site tab**
  - Up to 8 repeater networks can be monitored simultaneously. (8 CT-24s are required.) Up to 8 remote communicators can connect to a single repeater.

- **Function buttons**
  - Up to 40 function buttons are programmable. Individual call, group call, all call, stun, revive, kill, remote monitor, radio check, call alert, status call, status polling, emergency call, emergency alert and base (repeater) memory channel are programmable.

- **DTMF entry**
  - Up to a 31 digit DTMF code can be sent.

- **Status Call**
  - Up to 100 status messages are programmable.

- **Short Data Message**
  - Up to 10 short data messages are programmable for quick selection, or enter any 10 character message.

- **Communication log**
  - The log area displays communication and operation logs. The log file is automatically stored in a designated folder.

- **ALIAS**
  - The ALIAS area displays caller and called ID/name information.

- **PTT button**
  - Click the PTT button to make a call. When used with the SM-25 or HM-152 microphones, both the microphone’s PTT button and the PTT button on the screen can be used.

- **Transmit/Receive indicator**
  - Green background color indicates a signal is received and red color indicates transmit of a signal.

- **Flexible settings**
  - The button layout, button name, button color and background color can be customized.

- **User authentication**
  - A login system provides three levels of user access control for protecting the IDAS network settings and use of the system itself.
Application Sample 1: Single Site System
For dispatch desks in large, multi-storied or remote buildings where non-IP radio connections from the base radio to the main antenna would be inefficient, overly expensive, or not possible.

Use the RC-FS10 on a laptop and reach back to the repeater while away from the office.

Also applicable for companies with dispatch locations far distant from the rest of the radio system.

**Designed for:**
- Delivery companies
- Waste management
- School districts
- Hospitals
- Utilities
- Security companies
- Large casinos
- Correcional facilities

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Application Sample 2: Multi-Site System
One company with multiple branch sites and multiple repeaters who want to control everything remotely, whether across town or from around the globe. Up to 16 IDAS repeaters (sites) can work on one network.

**Designed for:**
- Large companies or agencies of all types

**One RC controls up to 8 IDAS repeaters**
**One IDAS repeater can be connected to up to 8 RCs**
**Connect up to 128 RC units within an IDAS network**

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Application Sample 3: Monitoring Different User Groups
Connecting different radio systems, even those using different frequency bands, via IP to achieve seamless voice and data communications.

**Designed for:**
- Public safety agencies looking for affordable interoperability
- Recently merged companies who need to reconcile incompatible radio systems
- Large companies or agencies operating different radio systems who want to bring their communications under one umbrella
The RC-FS10 Remote Communicator creates a virtual radio/simple CT-23
CT-24, is a USB device which converts
BC-147SA/SE is required separately.
A third party microphone or
Audio cable
USB cable
CT-23
Optional item. See below for more information on this product.
Optional item. See CT-23.
Software will not operate without the CT-24 attached
A typical RC installation requires:
- A Windows® based PC
- RC-FS10 software installed into the PC
- CT-24 digital voice converter unit
- Optional CT-23 PTT microphone converter that allows an SM-25 or HM148 to connect to the PC
A Windows® XP SP2 or later (32-bit) or Windows Vista® (32-bit)
- Intel® Pentium® 4 1.6 GHz CPU or better
- 512MB of memory or higher (for Windows® XP)
- 100MB of hard disk space
- DirectSound compatible audio (Frequency response up to 20kHz, sampling rate 48kHz)
- 1024 x 768 pixel or greater display resolution
- Other requirements: CD-ROM drive, USB 1.1 or 2.0 port, 10Mbps or faster Ethernet interface, speaker, microphone or headset

Remote Communicator

User Group A
User Group B

IP Network
Repeater
Virtual radio/
IC

IC

IP Network
Repeater

IC

IP Network
Repeater

IC

IP Network
Repeater

IC

IP Network
Repeater

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IP Network
Repeater

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IP Network
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