ICOM®

RC−FS10

Virtual radio / dispatch software
for an IDAS™ MultiTrunk or conventional 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 program-mable dispatcher radio control 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.

Virtually link up to 16 IDAS repeaters

Coordinate your in-the-field staff remotely with voice and data sent from a PC...

...around the state, around the country, around the world

IDAS™
ICOM DIGITAL ADVANCED SYSTEM

IP virtual radio

The PC software will provide a set of programmable functions (see page 2), as well as simple repeater control such as channel changing capability.

The software is easy to use with a flexible button layout on the PC monitor. Users can program ca-pabilities 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 convert-er 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 adapt-er, allows the user to attach the SM-26 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
Program up to 8 different IDAS systems to monitor (8 CT-24's required). Up to 8 remote communicators can connect to a single repeater.

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

Selective call
When the selective call button is clicked, the selective call setting screen pops up and you can directly address the destination ID. Individual and group call buttons provide shortcuts to the frequently used destination ID.

Individual ID list & Talkgroup ID list
The individual ID list and talkgroup ID list show all individual ID and group ID names. You can select the destination ID and make a call from the list
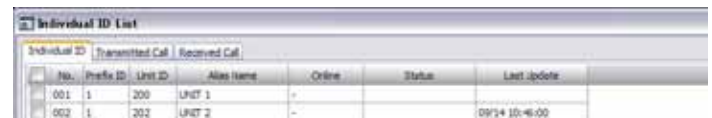
Repeater Status
When the repeater status button is clicked, status information of the repeaters is displayed. The status information contains power supply voltage, PLL lock voltage, temperature and cooling fan status.
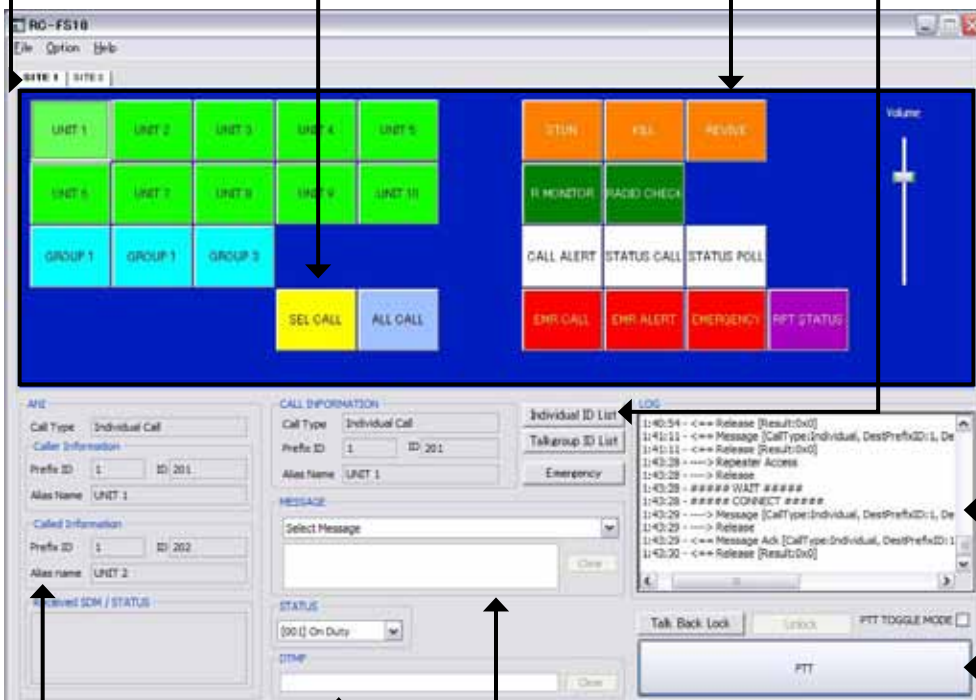
Communication log
The log area displays communication and operation logs. The log file is automatically stored in a designated folder.

PTT button
Click the PTT button to make a call. When used with the SM-26 or HM-152 microphones, both the microphone's PTT button and the PTT button on the screen can be used.

Alias
The Alias area displays caller and called IC/name information.

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

Short Data Message & Status Call
Program up to 10 short data messages and up to 100 status messages for quick selection or write the short data message in the box.

User authentication
A login system provides three levels of user access control for protecting the IDAS network settings and use of the system itself.
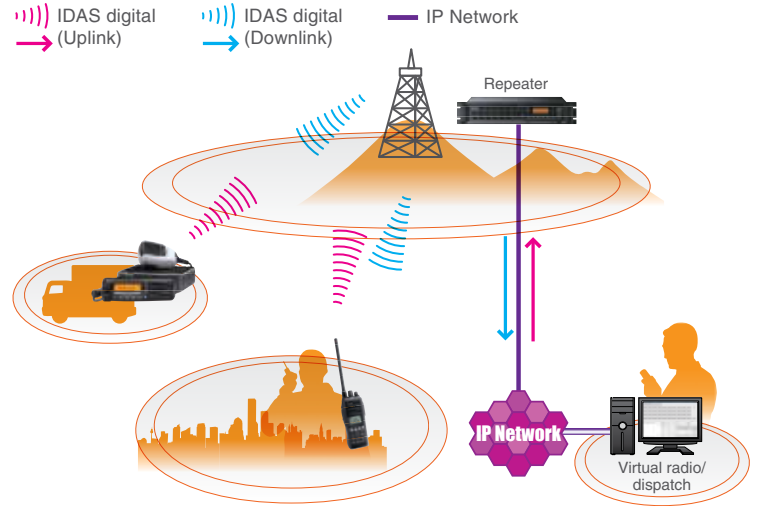
Application Sample 1: Single Site System

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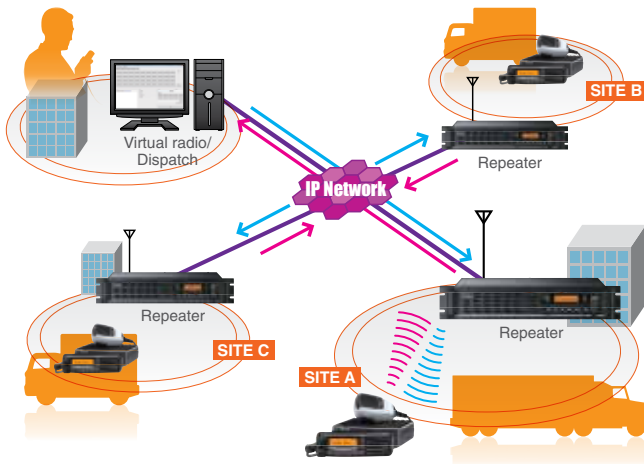
Also applicable for companies with dispatch locations far distant from the rest of the radio system.

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

))))) IDAS digital (Uplink)))))) IDAS digital (Downlink) — IP Network

Repeater

IP Network

Virtual radio/ dispatch

))))) IDAS digital (Uplink)))))) IDAS digital (Downlink) — IP Network

Virtual radio/ Dispatch

IP Network

Repeater

Repeater

SITE B

SITE C

SITE A

Repeater

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*

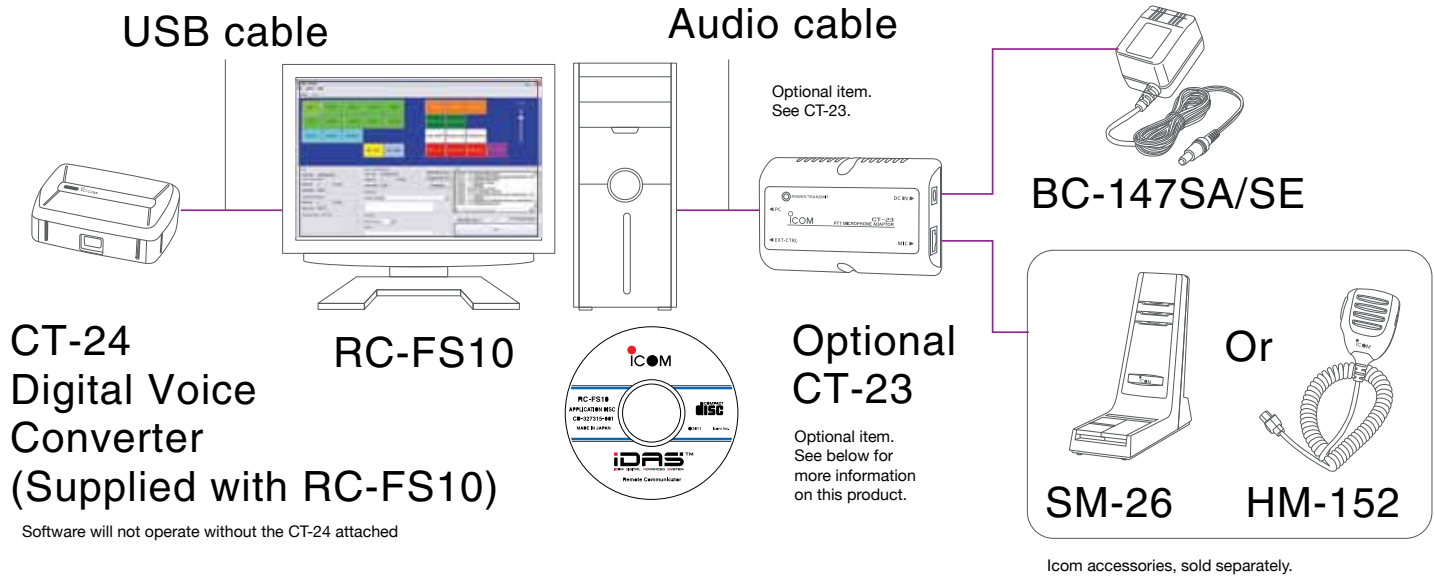
Application Sample 3: Monitoring Different User Groups

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

))))) IDAS digital (VHF)))))) IDAS digital (UHF) — IP Network

VHF Radios

UHF Radios

VHF Repeater

UHF Repeater

IP Network

Monitors group B conversation

Group A Dispatch

Group B Dispatch

User Group A **VHF Network**

User Group B **UHF Network**

USB cable

Audio cable

Optional item.
See CT-23.

BC-147SA/SE

CT-24
Digital Voice
Converter
(Supplied with RC-FS10)

RC-FS10

Optional
CT-23

Or

Software will not operate without the CT-24 attached

Optional item.
See below for
more information
on this product.

SM-26 **HM-152**

Icom accessories, sold separately.

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-26 or HM-148 to connect to the PC

The CT-23 comes with a 3.5 mm audio cable for connecting to a PC, and comes with the BC-147SA/SE power supply (USA).

A third party microphone or headset may be used with the RC-FS10 in place of the CT-23 and HM-152 or SM-26.

SYSTEM REQUIREMENTS

- Operating system: Windows® XP SP3 or later (32-bit)
  Windows Vista® SP2 or later (32-bit/64-bit)
  Windows 7® (32-bit/64-bit)
- CPU: Intel® Pentium®4, 1.6GHz CPU or better
- Memory: 512MB or higher (for Windows® XP)
- Hard disk space: 100MB of disk space
- Audio: DirectSound compatible audio (Frequency response up to 20kHz, sampling rate 48kHz)
- Display resolution: 1024 x 768 pixel or more
- Other: CD-ROM drive, USB 1.1 or 2.0 port, 10Mbps or faster Ethernet interface speaker, microphone or headset

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