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## Icom Extends Radio Coverage With the IDAS™ Conventional IP Network

Conventional radio meets the Internet in Icom's newest brainchild, the IDAS (Icom Digital Advanced System) Conventional IP Network system. The result is a powerful tool allowing operators to extend coverage well beyond the current reach of their repeater network whether it's just a few miles or all the way across the country.

Users will find IDAS useful for a variety of scenarios, including an affordable link for multiple repeaters. Using an internet connection, a dispatcher can easily connect up to 16 repeaters regardless of their physical location as long as they are connected to the Internet with a unique IP address. Dispatchers can create

## Dispatch from Anywhere Via the IDAS™ Remote Communicator

Turn your computer into a dispatch radio with the IDAS Remote Communicator (RC-FS10). IDAS Remote Communicator creates an IP-based virtual radio on a Windows PC with basic console functions and repeater control via the communicator software.

Great for traveling personnel that are out of traditional radio contact, this system allows users to tap into your system while away from the office. All that's required is an Internet connection and the Remote Communicator set to a target repeater's IP address for voice uplink to the network.

In base mode operation—used in cases where communications between terminals is not intended—IDAS uplinked voice from IDAS radios can be directed to the assigned virtual radio dispatcher and will not be repeated to other IDAS terminals. The uplink from the dispatcher can then be downlinked from IDAS repeaters.

In addition to IP multisite dispatch, IDAS Remote Communicator allows you to dispatch for multiple systems or repeaters; up to eight IDAS target repeater sites can be linked. And a total of eight Remote Communicators can connect to each repeater, ensuring the field force is never out of touch with each repeater.

The CT-24 digital voice converter unit (included in package) with ESN for unit identification creates the voice path, with multiple down-link voice streams from different networks received. And Icom's SM-25 desktop microphone with a radio-like PTT button—compatible with the optional CT-23—is easily transported and set-up for virtual dispatcher operation. If desired, PC headsets and microphones can also be used, with PTT enabled by a button on the computer screen.

This product will be released December 15.

***For People Who Make Smart Choices***

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## Icom Extends Coverage With the IDAS Conventional IP Network

talk groups and connections with other repeaters as they would in a traditional radio network.

The system also works well as a crossband solution able to connect IDAS Digital UHF and IDAS Digital VHF on a single conventional IP network. This application is particularly useful in a community where the different departments or agencies operate of divergent bands. Operators can easily link dispatchers, repeaters and mobile and portable radios via the IP network, creating a path for interoperability without needing to acquire leased lines from the telephone company—a cumbersome and more expensive option.
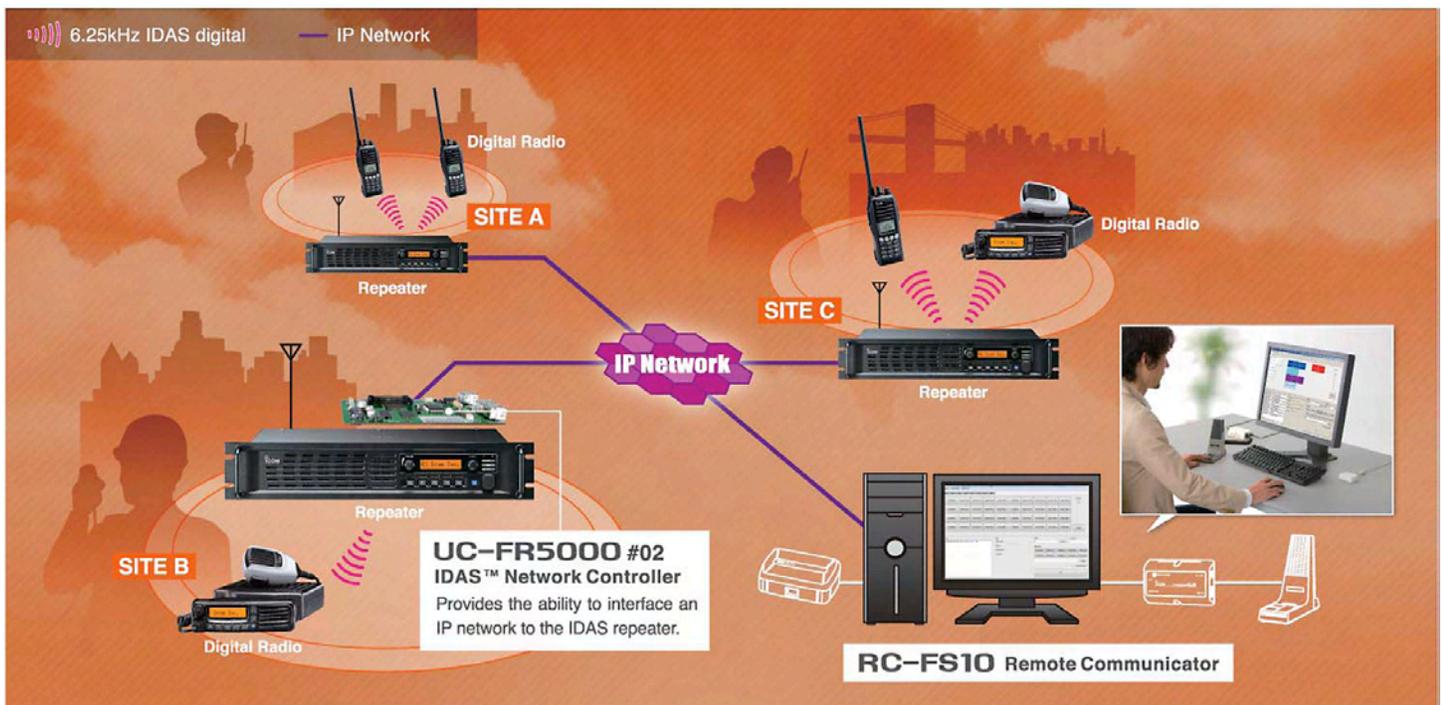
IDAS Conventional IP enhances in-building and building-to-building coverage as well. Leveraging existing LAN infrastructure, a network of repeaters strategically located throughout the premise and Icom portable or mobile radios, users will have clear digital communications from the top floor to the basement, or building to building in a campus environment.

And IDAS' receiver voting features improves portable and mobile radio talkback. When an IDAS Repeater reaches all necessary coverage areas, but where mobile or portables can't reach back - a built-in digital voter can relay the best signal back to main Rx/Tx repeater. No external voter device is required for this feature.

From utilities to distribution centers to public safety, IDAS Conventional IP fits just about any need for extending coverage. And as a feature of a private radio network, operators will not be paying commercial operators' high monthly fees.

This product will be released December 15.

## Meet Your Icom Team

**Scott Bigger**
IAS Operations Supervisor

*Scott Bigger has a big job as Icom's IAS Operations Supervisor. Not only does he oversee the day to day technical production of off-the-shelf and built systems, but he also provides technical support and system designs.*

*Scott works tirelessly with dealers to provide key technical assistance when they need it – this includes as many trips as needed to work on customer's systems projects until they are working smoothly.*

*"The most rewarding aspect of this job is being involved in the intricacies of many different system designs – each is unique in its own way and presents a challenge for us," Scott related. "Supervising a team of extremely knowledgeable and experienced technical staff also helps in a big way."*

*Scott would also like you to know that we complete systems to your customer's requirements… spread the word!*

# Icom America is Proud to Announce the Release of the CY-5000 Digital Series Repeater for the Business and Industrial Market

The CY-5000 is a fully self-contained analog + IDAS™ digital repeater. The product is desktop or 19-inch rack mountable, featuring a built-in power supply with battery backup and charging capabilities. Duplexers and pre-selectors are included in their respective versions.

"The CY Series is built upon our 3RU universal chassis, which has been in the marketplace for about five years. It has been widely accepted as a very reliable, self-contained, all-in-one unit," said Dick Varbero of Icom America Systems. "This allows for ancillary components to be included inside that are typically mounted outside of the chassis, thus saving expensive rack space." The unit is designed for "plug-and-play" operation for easy installation and deployment.

Using auto-sensing capability, the 50-watt output repeater transitions easily between repeating radio transmissions utilizing legacy 25 kHz or 12.5 kHz analog signals and IDAS digital signals. IDAS uses NXDN™ digital protocol signals across 6.25 kHz channels.

IDAS makes advanced calling features possible, including selective calling, status message, radio stun/kill/revive and GPS position reporting.

> *"Our CY-Series repeaters process both analog AND digital transmissions, giving Icom a huge advantage. "Other manufacturers repeaters transmit either analog or digital, but not both." – Dick Varbero*

A typical installation includes a fleet of vehicles with legacy analog subscriber units. The IDAS system is ideal for business and industry users who want to migrate to a digital system or the future

FCC mandated narrowband spacing at their own pace.

"Our existing legacy customers want to upgrade their repeater infrastructure to support both analog and digital use for forward migration to 12.5 kHz narrowband or 6.25 kHz very narrowband channels," Varbero said. "Some users won't have the funds to upgrade their portables and mobiles to digital all at once, so they want to continue to get the most life expectancy out of their current analog radios. This auto-sensing technology affords these customers a scalable, smooth transition roadmap."

The new generation of subscriber units from Icom also feature auto-sensing between digital and analog signals; digital radios can not only communicate with other digital units, but are also able to communicate with the legacy radios on the system.

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## Icom America is Proud to Announce the Release of the CY-5000

"Through the dual-mode technology in both the subscribers units as well as the repeaters, we provide interoperability for the handhelds and an easy digital migration strategy for them," Varbero said. "At the end of the life expectancy of the legacy handhelds, they can upgrade to full digital."

The CY-5000 Digital series decodes multiple CTCSS and DTCS as well as multiple digital RAN (Radio Access Number) codes on a per channel basis (up to 16 tones/codes) and downlinks the received signal with a specified tone/code. This function is useful for sharing a channel with multiple groups and provides quiet stand-by while using other groups.

## Icom End User Rebates

**November 11, 2009 – March 31, 2010.**

**Icom is pleased to announce END USER REBATES when your customers purchase the mid to high end Icom radios.**

$25 rebate on the F3021/F4021, F5021/F6021, F50/F60/V, F3161/F4161 & F5061/F6061 series

$35 rebate on the IDAS radios - F3161D/F4161D & F5061D & F5061D/F6061D

This rebate redemption is available for units sold to end users during the promotion period.

## New 100W IDAS™ Repeater Allows Easy, High-Powered Migration from Analog to Digital Radio System

Icom America is pleased to announce the development of the IAS 100D Digital Series for the business and industrial markets.

The IAS 100D Digital Series is a repeater that brings higher power and increased duty cycle to IDAS, Icom's digital land mobile radio system using the NXDN™ 6.25 kHz very narrowband common air interface technology.

"There are a number of vertical markets with end users that have 100 watt licenses," said Dick Varbero, "Business and industrial market users that require high power requirements include such entities as hospitals, schools and taxicab companies."

The IAS 100D Digital Series receives and re-broadcasts both legacy analog and digital signals on a single channel. This allows the user to move forward with digital 6.25 kHz very narrowband, while still serving the existing legacy analog radios in their system. The migration to digital very narrowband can therefore be scalable to each user's pace and requirement.

The IDAS system occupies only 6.25 kHz spectrum per channel, while providing for enhanced IDAS feature sets and data capabilities The IDAS system uses the AMBE+2™ codec, which provides clear audio and simultaneous data capabilities.

The IAS 100D Digital Series decodes multiple CTCSS and DTCS as well as digital RAN (Radio Access Number) codes on a per channel basis (up to 16 tones/codes) and downlinks the received signal with a specified tone/code. This function is useful for sharing a channel with multiple groups and provides quiet stand-by while using other groups.

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