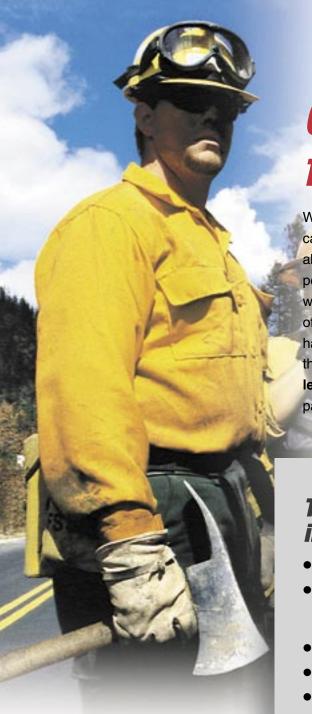
VHF AND UHF 100W BASE/REPEATERS

Icom America Systems

IAS-100Wv IAS-100Wu

The Power of 100 Watts and 100% Duty Cycle.





Our 100 watt repeater of features for less.

When an emergency breaks, you can't afford to spend time worrying about your communication system's performance or capabilities. That's why Icom America Systems (IAS) offers more standard features and hardware in our 100 Watt system than any of our competitors -- for less money! Unlike other standard packages, your 100 Watt repeater/

base will arrive ready-to-use and custom-built to your specific communication needs. It's compatible with your existing equipment, or it can be the foundation for your communications' network. We take the guesswork out of setting up a communication system so you can focus on what you do best – *saving lives and averting crises*.

The standard package includes:

- 100 Watt 100 percent duty cycle
- Multiple CTCSS & DTCS tone memories with 32 memory channels
- Telephone interconnect capability
- DTMF remote control capability
- Interface cabling with silver plated connectors (custom-cut to resonance)
- Built-in battery back-up capabilities
- Mounting bracket for rack or cabinet
- Technical support

IAS gets you more!

The standard package also includes:

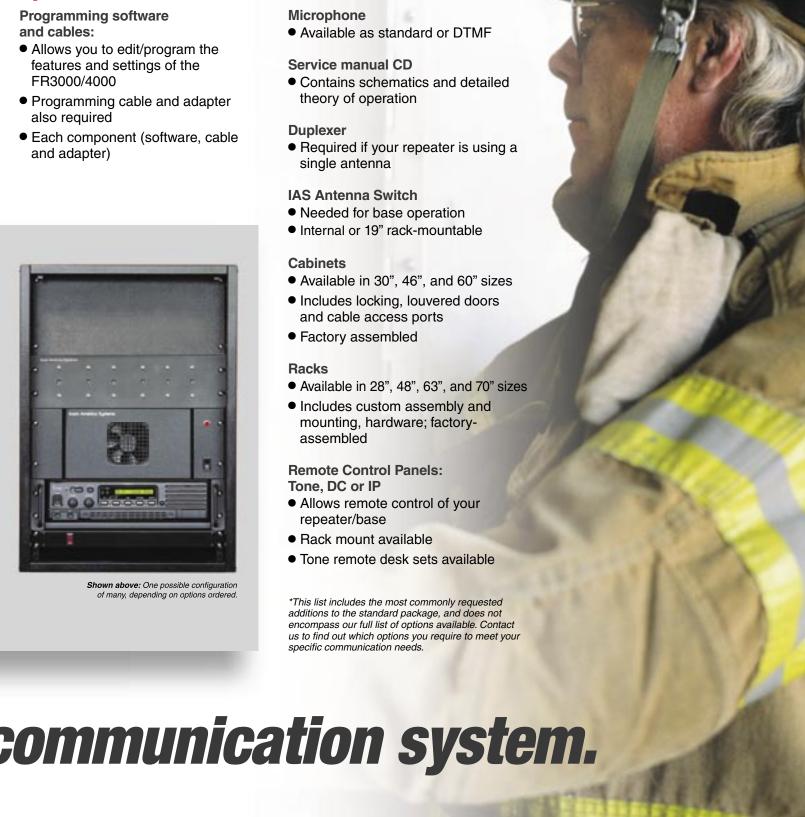
- A.C. surge suppression panel
- Basic tuning, aligning, and programming for your system done in our factory
- Crating and packaging for shipment
- Instruction manual

Additional labor may be required depending on the options chosen

The foundation of a powerful of

fers more

Options*



IAS-100Wv • 100Wu

STANDARD FEATURES

- Master/Slave backup operation by connecting two repeaters/bases
- Self-check function checks for internal errors and alerts with a beep sound or with a phone call
- Accessory connector (D-sub 25-pin) for connecting to external devices
- 5-Tone relay function
- CW ID transmitter (DTMF or 5-Tone also selectable)
- Password and kill/stun function for security
- 16-digit alphanumeric display convenient for base station operation
- A programmable button gives access to a customized function

SPECIFICATIONS

GENERAL

• Frequency coverage:

IC-FR3000: 150-174MHz

IC-FR4000: 400-430MHz, 450-480MHz, • Number of channels: 32 channels

• Channel spacing: 12.5/25kHz • PLL channel step: 5, 6.25kHz

(2.5kHz, VHF repeater operation only)

Frequency stability:

IC-FR3000: ±2.5ppm

IC-FR4000: ±1.5ppm (U.S.A. version),

±2.5ppm (Other versions)

 Operating temperature range: -30°C to +60°C; -22°F to +140°F

Power supply voltage: 100-120V AC (50/60Hz), (depending on version) 220-240V AC (50/60Hz),

13.6V DC

TX IC-FR3000 (at 50W) 15A • Current drain (at 13.6V DC): IC-FR4000 (at 50W) 20A

RX Max. audio 2A typ.

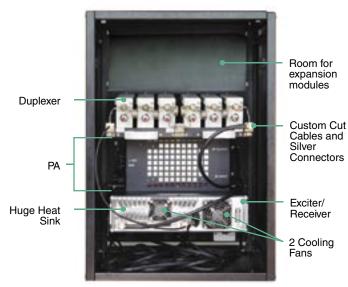
Stand-by

 Antenna impedance: 50Ω (Type-N×2) • Dimensions (WxHxD): 410 ×110 ×360 mm;

 $16^{5/32} \times 4^{11/32} \times 14^{3/16}$ in

Weight: 12kg; 26.4lb (approx.)

REAR VIEW



Shown above: One possible configuration of many, depending on options ordered.

RECEIVER

• Sensitivity: 0.25µV typ. (at 12dB SINAD) · Adjacent channel selectivity: 70dB (wide) 60dB (narrow)

• Spurious response: 70dB • Intermodulation rejection ratio: 70dB

• Hum and noise ratio: 40dB (wide) 34dB (narrow) • Audio output power: 2.5W typ. at 10% distortion

with a 4Ω load

• External speaker connector: 2-conductor 3.5 (d) mm

 $(1/8")/4\Omega$

TRANSMITTER

• Output power: 50W (high), 10W (low) selectable (at 13.6V DC)

• Max. frequency deviation: ±5.0kHz (wide) ±2.5kHz (narrow)

• Spurious emissions:

• Adjacent channel power: 70dB (wide) 60dB (narrow) 40dB (wide) 34dB (narrow) • Hum and noise:

• Microphone impedance: 600Ω (8-pin modular)

Measurements made in accordance with EIA/TIA-603-A. Compatibility of functions for use with a telephone line may not work in some countries. All stated specifications are subject to change without notice or obligation.

Icom America Systems

Systems for People Who Make Smart Choices

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