



# Real-time Voice Communication Tool that

## Tunnel Construction and Mining



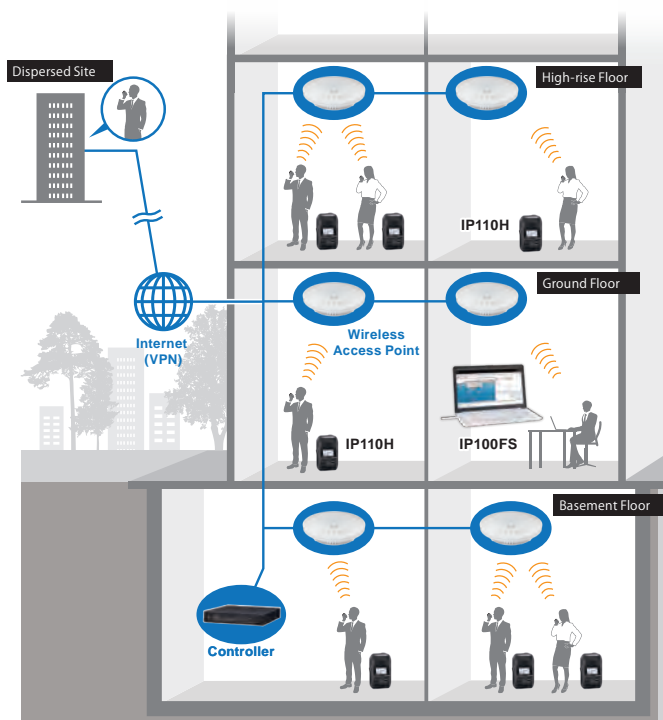
The communication area can be flexibly expanded as the work progresses. In addition, the safety of the user can be confirmed by the Man down and Motion sensor functions.

## Factories and Warehouses



The WLAN radio can cover all working sites, offices and remote bases through an IP network (VPN). Wherever you are in the network, you can share the information you need.

## WLAN Radio System Features



### Scalable System Using Wireless LAN Network

Deploying wireless access points over an IP network, the WLAN radio system can expand the communication range.

### License-Free Communication

The WLAN radio uses common wireless LAN network frequencies, which do not need communication fees for running the system.

### Communication with Dispersed Sites

When connected over an Internet VPN, the WLAN radios can communicate between dispersed sites.

### Simultaneous TalkListen™ Function

**Talk Listen**  
Simultaneous

The WLAN radio provides full duplex communication like a telephone conversation and one-to-many communication. The Simultaneous TalkListen™ function works with or without external headset.

### Call Recording Function

The WLAN radio controller, IP1100CV and VE-PG4 can record specified communication audio to an external USB flash drive.

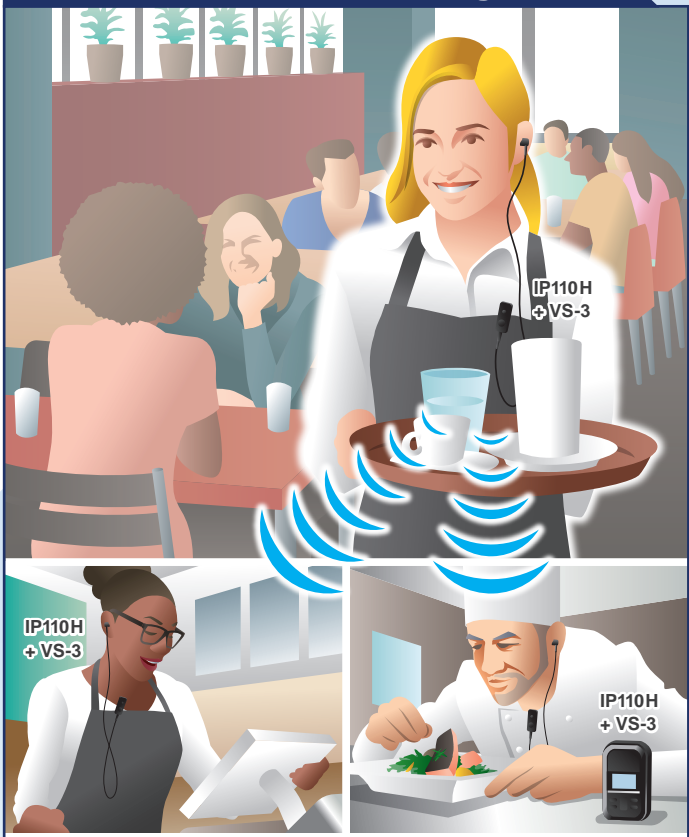
# Instantly Connects You with Your Team

### Shopping Centers and Malls



By deploying access points along the IP network, the WLAN radio can communicate all the way from the basement to the top floor. Real-time simultaneous Talk and Listen is possible.

### Hotel and Restaurant Management



You can use the WLAN radio as a handy communication tool between staff members. With the optional Bluetooth® headset, VS-3, the WLAN radio can be used wirelessly and inconspicuously.

## Product Lineup

### Compact, Lightweight Wireless LAN Radio with Simultaneous TalkListen™ Function



- All, Group, Talkgroup, Individual and Telephone Calls
- 1000 mW loud audio from internal speaker
- Optional Bluetooth® headset, VS-3
- IP67 / IP54 waterproof and dust-tight
- Battery can be charged through the USB Type-C™ cable
- More than 20 hours of operating time (Tx 1: Rx 1: Stand-by 8 duty ratio)
- WPA2, WPA-Enterprise security

<Other features>

- Audio is recorded for instant review
- Vibration alert function
- Motion/Stationary detection, man down and lone worker functions
- Over-the-Air programming
- Compatible with the IP100H WLAN radio

### WLAN Transceiver IP110H



### Remote Communicator IP100FS

(Supplied with a USB flash drive)



- Windows PC based communication app
- Obtains location info of each radio based on the access point being used
- Management functions such as remote lock function



## WLAN RADIO SYSTEM

### IP110H SPECIFICATIONS

Wireless Standards	IEEE802.11 a/b/g/n/ac	Dimensions	57×96.9×25.1 mm, 2.2×3.8×1.0 in (W×H×D: Projections are not included)
Frequency Range*1	EXP: 2412–2462 MHz, 5180–5320, 5500–5700 MHz USA: 2412–2462 MHz, 5180–5320, 5500–5580, 5660–5700, 5745–5825 MHz	Weight (approximate)	146 g, 5.2 oz
Security	WEP (64/128-bit), WPA2-Enterprise, WPA-Enterprise, WPA-PSK, WPA2-PSK	Operating Time	More than 20 hours (TX 1 : RX 1 : Stand-by 8 duty ratio)
AF Output Power	1000 mW typ. (Internal SP) / 300 mW typ. (External SP)	Charging Time	4 hours (With BC-257 and BC-228)
Operating Temperature	–10 °C to +60 °C, +14 °F to +140 °F	IP Rating	IP67 / IP54
Charging Temperature	0 °C to +60 °C, +32 °F to +140 °F	MIL-STD-810	Passed 12 categories of environmental tests
		Supplied Accessories	OPC-2480 USB charger cable, MBB-1 belt clip

\*All stated specifications are subject to change without notice or obligation. \*1 Authorized frequency range and channels may differ depending on the country.

### OPTIONAL ACCESSORIES FOR IP110H

**Bluetooth® Headset**  
**VS-3**  


**Speaker-Microphones**  

**HM-186PI**  


**HM-228**  
Waterproof  


**Earphone-Microphone**  
**HM-179PI**  


**Headsets**  

**HS-94**  
Earhook type  


**HS-95**  
Neck arm type  


**HS-97**  
Throat type  


**Plug Adapter Cable**  
**OPC-2133**  
2.5 mm stereo jack to 1 pin connector  


**Earphone**  
**SP-16PIBW**  
Earhook type  


**Charger Accessories**  

**BC-257**  
Charger stand  
(Connectable up to 4 units.)  


**BC-228**  
AC adapter for multiple BC-257 connections  


**Other Accessories**  

**OPC-2132**  
Plug adapter cable  
2.5 mm stereo/ 3.5 mm stereo jack to 1 pin connector  



**MBB-1**  
Belt clip.  
Same as supplied.  



### IP100FS SYSTEM REQUIREMENTS


Operating System	Windows 11, Windows 10 (32-bit/64-bit), Windows 8.1 (32-bit/64-bit) (Except for Windows RT)
CPU	Intel® Core™ 2 Duo Processor E6600/ 2.4 GHz or faster
System Memory	2 GB or more
Hard Disk Space	1 GB of disk space (for saving log files)
Display Resolution	Full HD (1920×1080 pixel) recommended / XGA (1024×768 pixel) at least
LAN	100BASE-TX or faster Ethernet interface
USB	USB1.1 / 2.0
Other	Speaker, microphone or headset

### OPTIONAL ACCESSORIES FOR IP100FS

**Microphones**  

**SM-26**  
Desktop microphone  



**HM-152**  
Hand microphone  


**PTT Microphone Adapter**  
**CT-23**  


## WLAN RADIO SYSTEM EQUIPMENT


**IP1100CV**  
**WLAN Radio Controller**  

- Capable of controlling up to 300 WLAN radios (including IP100FS)
- VPN function
- 19-Inch rack mount design with optional MBF-6, Rack Mount Bracket



**VE-PG4**  
**RoIP Gateway (WLAN Radio controller built-in)**  

- Capable of controlling up to 50 WLAN radios (including IP100FS)
- Interconnects with IP Phone and other digital and/or analog radio systems
- VPN function
- 19-Inch rack mount design with optional MBF-6, Rack Mount Bracket



Icom and the Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia, Australia, New Zealand, and/or other countries. SIMULTANEOUS TALKLISTEN is a trademark of Icom Inc. The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Icom Inc. is under license. Windows is a trademark of the Microsoft group of companies. Intel, the Intel logo, and Intel Core are trademarks of Intel Corporation or its subsidiaries. USB Type-C and USB-C are trademarks of USB Implementers Forum. All other trademarks are the properties of their respective holders.

Icom Inc.

1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

[www.icomjapan.com](http://www.icomjapan.com)

Your local distributor/dealer:

**ADVANTEC**  
**Advantec Srl**  
Via Caduti per la Libertà, 13  
10060 Pinasca TO - Italy  
Tel. +39 0121326770  
info@advantec.it - [www.advantec.it](http://www.advantec.it)

[www.icom-france.com](http://www.icom-france.com)