

ICOM

Apex
Radio Systems Ltd.

WLAN RADIO SYSTEM



Real-time Voice Communication Tool that

Tunnel Construction and Mining



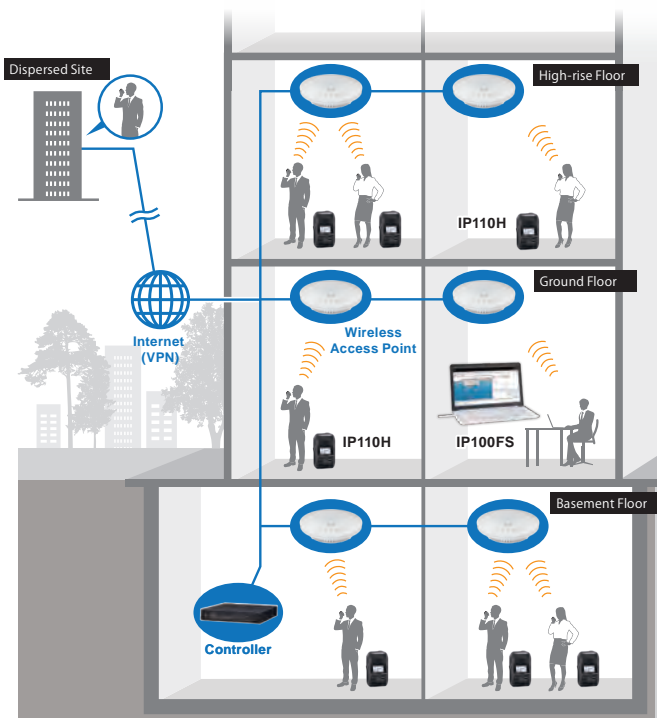
The communication area can be flexibly expanded as the work progresses. In addition, the safety of the user can be confirmed by the Man down and Motion sensor functions.

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



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

IP110H
+HM-179PI

IP110H
+VS-3

IP100FS
SM-26
IP110H

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

IP110H
+VS-3

IP110H
+VS-3

IP110H
+VS-3

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

<p>Bluetooth® Headset</p> <p>VS-3</p> 	<p>Speaker-Microphones</p> <p>HM-186PI</p> 	<p>HM-228 Waterproof</p> 	<p>Earphone-Microphone</p> <p>HM-179PI</p> 
<p>Headsets</p> <p>HS-94 Earhook type</p> 	<p>HS-95 Neck arm type</p> 	<p>HS-97 Throat type</p> 	<p>Plug Adapter Cable</p> <p>OPC-2133 2.5 mm stereo jack to 1 pin connector</p> 
<p>Earphone</p> <p>SP-16PIBW Earhook type</p> 	<p>Charger Accessories</p> <p>BC-257 Charger stand (Connectable up to 4 units.)</p> 	<p>BC-228 AC adapter for multiple BC-257 connections</p> 	<p>Other Accessories</p> <p>OPC-2132 Plug adapter cable 2.5 mm stereo/3.5 mm stereo jack to 1 pin connector</p> 
			<p>MBB-1 Belt clip. Same as supplied.</p> 



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

<p>Microphones</p> <p>SM-26 Desktop microphone</p> 	<p>HM-152 Hand microphone</p> 	<p>PTT Microphone Adapter</p> <p>CT-23</p> 
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WLAN RADIO SYSTEM EQUIPMENT

<p>IP1100CV WLAN Radio Controller</p> <ul style="list-style-type: none"> • Capable of controlling up to 300 WLAN radios (including IP100FS) • VPN function • 19-Inch rack mount design with optional MBF-6, Rack Mount Bracket 	<p>VE-PG4 RoIP Gateway (WLAN Radio controller built-in)</p> <ul style="list-style-type: none"> • 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 
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