

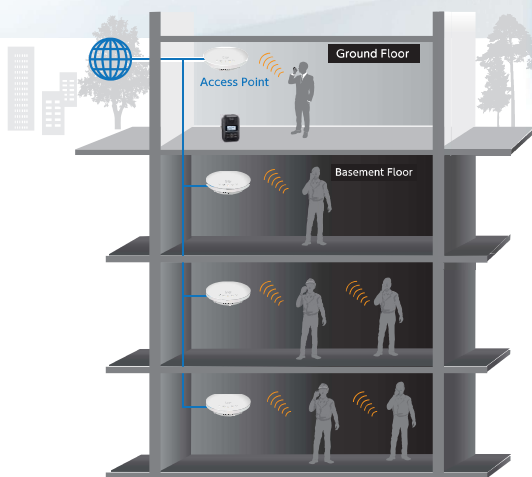
Wireless LAN Radio System for Tunnels, Mining and Underground Operations

For Underground



Before

The running cost for leaky feeder cable solutions are expensive and burdensome.



After

The WLAN radio system runs on an existing WLAN network, the running cost is dramatically reduced. License process is not required to use the system.



WLAN RADIO SYSTEM IP110H

For Tunnels



Before

The radiating cable system can often go down and work/communications are interrupted each time



After

Using a WLAN network, communication links are stable. And its coverage area can be easily extended by adding access points.

Easily Fill in Communication Dead Spots

Inexpensive Initial and Running Cost

Interconnection with Telephone and Radio Systems
(Optional VE-PG4 required)

Simultaneous TalkListen™ Function

Safe and Secure Functions for Workers

License Free Transceiver

Case Studies

Tunnel Emisor Oriente is a 62 km long underground wastewater treatment tunnel being built in Mexico City, Mexico, and is one of the largest wastewater tunnels in the world.



Anglo Gold Ashanti is the 3rd biggest company of gold production in the world. They have gold mining in Sabara, Brazil and it is 14 km below the ground (Deepest mining in Brazil).



Tunnel specialist in Germany

Since a WLAN was already in place, the initial investment for WLAN radio system was much less than a traditional RF radio system.



Metro constructor in Qatar

The IP110H is a license-free model that could be used immediately without cumbersome radio licensing processing.



Mining specialist in Australia

In a WLAN network environment, it is possible to expand the communication range easily by just adding LAN access points.



Compact, Lightweight Wireless LAN Radio with Simultaneous TalkListen™ Function



WLAN Transceiver
IP110H

- 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*
- WPA2, WPA-Enterprise security

*Tx 1: Rx 1: Stand-by 8 duty ratio



- 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

Remote Communicator
IP100FS (Supplied with a USB flash drive)

WLAN Radio Controller **IP1100CV**

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



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

- 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
- Call recording function



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