



# MATRIX

# ICOM IP ADVANCED RADIO SYSTEM

License-Free Full-Duplex Voice Communication  
Over Wireless LAN and IP Networks



IP100H HANDSET

If your mine or industrial operation has an existing Wi-Fi-enabled network, Matrix has an easy, low-cost way to add individual, group or area voice communications through VoIP or RoIP handsets.

Icom's WLAN-based radio system offers scalable, license-free communication that uses simple, standardized wireless network products.

#### **LICENSE-FREE SYSTEM**

No radio licenses are necessary for the system as it uses standard WLAN networking products as infrastructure.

#### **SCALABLE SYSTEM**

Communications are distributed across WLAN access points on an IP network, which makes it easy to expand the system.

#### **SECURE ENCRYPTED COMMUNICATION**

The wireless security protocols WPA-PSK and WPA-PSK2 encrypt the calls.

#### **SIMULTANEOUS USE**

Many users in the system can transmit simultaneously. When a headset is connected to the IP100H, users can talk concurrently in full duplex – similar to talking on a regular telephone.

#### **LOCALIZATION OF USERS**

IP100FS software can connect to the network and be used as a fixed radio. It can call a user, send a message and easily see the access point to which each user is connected.

#### **RELIABLE SOUND QUALITY**

Sound quality is higher than in a traditional radio communication system and is comparable to regular telephone communication.

- Easy to set up and use
- Handles up to 100 users
- Encryption for added security
- No license fee or call charges

  
**www.matrixteam.com**



### WLAN RADIO PHONE

The IP110H is a compact, lightweight wireless WLAN 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
- WPA2, WPA-Enterprise security
- Audio is recorded for instant review
- Vibration alert function
- Motion/Stationary detection, man down and lone worker functions
- Over-the-Air programming

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### RoIP Gateway - VE-PG4

#### All in One Package

The VE-PG4 includes built-in RoIP, SIP gateway, IP router, IP PBX and IP communication terminal controller functions in one box. In comparison with a similar system combining several devices, installation and administration of the integrated VE-PG4 can be simpler, with less conflict of settings.

#### Features

- Call Recording to a USB Drive
- Microphone Connection for Base Operation
- Position and Status Information
- Remote Communicator Software, RC-FS10 (optional)
- Serial Pass-through Function
- SIP Server and IP-PBX Functions
- Router Functions with VPN Tunnel
- Half-width 1U Form Design
- Online Firmware Update
- SIP Server and IP-PBX Functions

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