

IP ADVANCED RADIO SYSTEM

IP Communication Terminal **IP100H**

Remote Communicator **IP100FS** Controller **IP1000C**

Full-Duplex Communication That Works Over a Wireless LAN and IP Networks*

- Easy system to set up and use
- Up to 100 users can communicate at the same time
- Encryption provides extra security
- Range is only restricted by your IP network coverage
- No license fee required, no call charges



Wireless LAN System Extends Your Communication Coverage.



Staff spread across an extended site, such as a hotel, can communicate seamlessly.

Hands-free, Full-duplex Communication



With an optional earphone-mic or headset HS-102 or HS-85, the IP100H user can talk and receive simultaneously like a phone call. Hands-free operation allows your staff to carry out other tasks at the same time.



By deploying access points along the IP network, the IP advanced radio system can communicate all the way from the basement to the top floor. The IP100H can access the nearest access point and can roam between access points^{*}. "Same SSIDs are required for roaming use.

Dispersed Sites Communication



If connected over an Internet VPN, the IP100H/IP100FS can communicate between dispersed sites such as offices or shops in different cities.



Full-duplex Communication

With an optional earphone-mic or headset HS-102 or HS-85, the IP100H can talk and receive at the same time. All users in the system can communicate simultaneously.

High Security

The wireless LAN security protocols (WPA-PSK (TKIP/AES), WPA2-PSK (TKIP/AES)) encrypt your private conversations.

Status and Short Data Messaging

The IP100H/IP100FS can send status and short data messages* to other users.

* The IP100H can send only preprogrammed messages.

Easy System to Set Up and Use

The IP1000C programs almost all terminal configurations over the air. Individual PC programming via cable connection is not required. (Except initial setup)



RoIP GATEWAY

IP Phone and Transceiver Interconnection

With a VE-PG3 RoIP gateway, the IP advanced radio system can interconnect with an IP phone, analogue transceiver and IDAS[™] NXDN[™] digital transceiver.^{*1}

When used with an IP phone system, the IP100H can be used as a phone handset for making internal or external calls.*²

 $^{\star 1}$ NXDNTM Type-D multi-site trunking and conventional system using the IC-FR5000 series.

*² For interconnection with other equipment, verification tests are required before the installation. The IP100H can call a preprogrammed phone number only. (Cannot manually enter phone numbers to make a call.)





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SPECIFICATIONS

SPECIFICAT	IONS
IP100H	
Wireless standards	IEEE 802.11 a/b/g/n
Frequency range	2.412-2.472GHz, 5.18-5.35, 5.47-5.70GHz
Dimensions (W×H×D) ⁻¹	58×95×26.4mm;
	2.28×3.74×1.04in (with BP-271) 205g; 7.2oz (with BP-271 and antenna)
Weight (approx.) Operating time ^{*2}	More than 20 hours (with BP-271)
RF output power	Less than 10mW/MHz
Voice Codec	G.711 µ-law (64kbps)
AF output power (10% distortion)	Internal SP 400mW (typ., 16Ω), External SP 200mW (typ., 8Ω)
Operating temperature	WEP (64/128-bit), WPA-PSK (TKIP/AES), WPA2-PSK (TKIP/AES)
*1 Projections are not includ	-10°C to +60°C; +14°F to +140°F ed. ^{°2} Tx: Rx: Stand-by=1:1:8 duty cycle
Supplied accessorie	
BP-271 Li-ion battery pare Hand strap	
IP100FS (System requirements)	
	Windows® 8/Windows® 8.1 (32-bit/64-bit)
Operating system	Windows® 7 (32-bit/64-bit) SP1 or later, Windows Vista® (32-bit/64-bit) SP2 or later, Windows®XP(32-bit)SP3/(64-bit) SP2 or later (Except for Windows® RT)
CPU	Intel [®] Core [™] 2 Duo Processor E6600/ 2.4GHz or better
Memory	2GB or higher
Hard disk space	1GB of disk space (for saving log files)
Audio	DirectSound compatible audio (Frequency response up to 20kHz, sampling rate 48kHz)
Display resolution	1920×1080 pixel recommended 1024×768 pixel minimum
Other	USB 2.0 port, 10Mbps or faster Ethernet interface, speaker, microphone or headset
IP1000C	
Power supply	100-240V AC (With supplied AC adapter)
Operating temperature	0°C to +40°C; +32°F to +104°F
Dimensions (W×H×D)*3	232×38×168mm; 9.13×1.5×6.61in
Weight (approx.)	750g; 1.65lb (Main unit only)
LAN	RJ-45 connector × 4 1000BASE-T/100BASE-TX/10BASE-T (Auto MDI/MDI-X)
USB	Standard A receptacles ×2
Maintenance console	RS-232C (RJ-11) connector
"3 Projections are not includ	
Supplied accessories	
• BC-207S AC adapter • Cushion sheets • Ferrite core	
AP-90M	
Power supply	12V DC ±10% or PoE (IEEE802.3af compatible)
Dimensions (W×H×D)*4	120×29×103mm; 4.72×1.14×4.06in
Weight (approx.)	300g; 10.6oz (Main unit only)
Wired LAN	RJ-45 connector × 1 1000BASE-T/100BASE-TX/10BASE-T (Auto MDI/MDI-X)
Wireless LAN	IEEE 802.11 a/b/g/n/ac
USB Security	Standard A receptacle WEP (64/128/152-bit), WPA, WPA2,
· · · · · · · · · · · · · · · · · · ·	WPA-PSK, WPA2-PSK
⁴ Projections are not include	0°C to +40°C; +32°F to +140°F
Supplied accessories • Mounting bracket All stated specifications are subject to change without notice or obligation	



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