

IP ADVANCED RADIO SYSTEM

IP Communication Terminal

Remote Communicator

Requires either HM-153LS, HM-166LS, HS-102 with OPC-2359 or HS-85 with OPC-2144 for full-duplex operation

Controller

Full-Duplex Communication That Works Over a Wireless LAN and IP Network^{*}

Easy system to set up and use

ICOM

- Up to 100 users can communicate at the same time
- Encryption provides extra security
- Range is only restricted by your IP network coverage

No licence fee required, no call charges

Wireless LAN System Extends Your Communication Coverage.



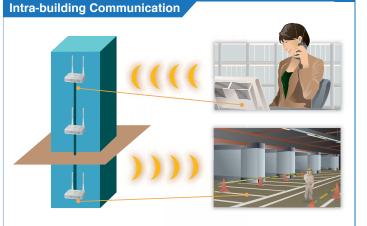
Staff spread across an extended site, such as a hotel, can communicate seamlessly.

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.

Dispersed Sites Communication



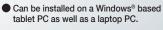
By deploying access points along the IP network, the IP advanced radio system can communicate all the way from the basement to the top floor. The IP100H can access the nearest access point and can roam between access points*. *Same SSIDs are required for roaming use.



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



The IP100FS can obtain location information of each IP100H based on the access point being used.





- terminals (including IP100FSs).
- Links up to 11 IP1000Cs over an IP network (Internet VPN) and increases the number of usable IP100H/IP100FS communication terminals to 1100 units. * Depending on the IP1000C version



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.

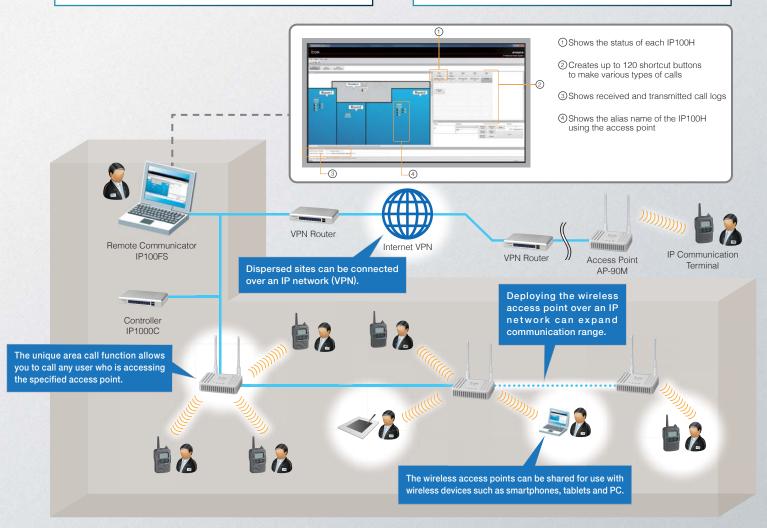
Status and Short Data Messaging

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, IDAS[™] NXDN^{™+1}, IDAS[™] dPMR[™] Mode 2 digital and analogue transceivers.

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

 \star1 NXDNTM Type-D multi-site trunking and conventional system using the IC-FR5000/FR5200H 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.)



Interconnection image The IP communication terminals, radios and telephones can communicate with each other within the doughnut shaped blue ring. **IP Advanced IP Phone Radio System** ····))))))) System Termina IP100H Cess AP-IP100H Controller IP1000C VE-PG3 Analogue P Phone (1) BC-ES10 RolP IDAS[™] NXDN[™] Type-D multi-site trunking and (Radio over IP) ventional system ng the IC-FR5000 s Analogue radio IDAS[™] dPMR[™] Mode 2 repeaters and UC-FR5000 #12

IP ADVANCED RADIO SYSTEM

SPECIFICATIONS

| IP100H | | |
|---|---|--|
| Wireless standards | IEEE 802.11 a/b/g/n | |
| Frequency range | 2.4-2.4835GHz, 5.15-5.35, 5.47-5.85GHz | |
| Dimensions (W×H×D) ⁻¹ | 58×95×26.4 mm; 2.28×3.74×1.04 in (with BP-271) | |
| Weight (approx.) | 205g; 7.2oz (with BP-271 and antenna) | |
| 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 load), External SP 200mW (typ., 8Ω load) | |
| Security | WEP (64/128-bit), WPA-PSK (TKIP/AES), WPA2-PSK (TKIP/AES) | |
| Operating temperature | -10°C to +60°C; +14°F to +140°F | |
| ¹ Projections are not includ | ^{*1} Projections are not included. ^{*2} Tx: Rx: Stand-by=1:1:8 duty cycle | |
| Supplied accessorie | S | |
| BP-271 Li-ion battery pare Hand strap | ck • MB-127 belt clip • Antenna • Antenna cap | |

IP100FS (System requirements)

| Operating system | Windows® 8/Windows® 8.1 (32-bit/64-bit) Windows® 7 (32-bit/64-bit) SP1 or later, Windows Vista® (32-bit/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 | 232×38×168 mm; 9.13×1.5×6.61 in | |
| 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 included. | | |
| Supplied accessories | | |

| Supplied accessories | Cushion sheets | Ferrite core |
|--|----------------|--------------|
| BC-207S AC adapter | | |

AP-90M

| Power supply | 12V DC ±10% or PoE (IEEE802.3af compatible) | |
|----------------------------------|--|--|
| Dimensions (W×H×D)*4 | 120×29×103 mm; 4.72×1.14×4.06 ir | |
| Weight (approx.) | 300g; 10.6oz (Main unit only) | |
| Wired LAN | RJ-45 connector x 1 1000BASE-T/100BASE-TX/10BASE- (Auto MDI/MDI-X) | |
| Wireless LAN | IEEE 802.11 a/b/g/n/ac | |
| Frequency range | 2.4-2.4835GHz, 5.15-5.35, 5.47-5.85GHz | |
| Security | WEP (64/128/152-bit), WPA, WPA2, WPA-PSK, WPA2-PSK | |
| Operating temperature | 0°C to +40°C; +32°F to +140°F | |
| "4 Projections are not included. | | |
| | | |

Supplied accessories • Mounting bracket

All stated specifications are subject to change without notice or obligation

Icom (Europe) GmbH

Communication Equipment Auf der Krautweide 24 65812 Bad Soden am Taunus, Germany Phone: +49 (6196) 76685-0 Fax: +49 (6196) 76685-50 E-mail: info@icomeurope.com URL: http://www.icomeurope.com

Ctra. Rubi, No. 88 "Edificio Can Castanyer Bajos A 08174, Sant Cugat del Valles, Barcelona, Spain Phone: -34 (93) 590 26 70 Fax: +34 (93) 589 04 46

E-mail: icom@icomspain.com URL: http://www.icomspain.com

Blacksole House, Altira Park, Herne Bay, Kent, CT6 6GZ, U.K. Phone: +44 (0) 1227 741741 Fax: +44 (0) 1227 741742 E-mail: info@icomuk.co.uk URL: http://www.icomuk.co.uk

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BC-207S

Icom France s.a.s.

Unit 1 / 103 Garden Road, Clayton, VIC 3168 Australia Phone: +61 (03) 9549 7500 Fax: +61 (03) 9549 7505 E-mail: sales@icom.net.au URL: http://www.icom.net.au

Icom New Zealand

39C Rennie Drive, Airport Oaks, Auckland, New Zealand Phone: +64 (09) 274 4062 Fax: +64 (09) 274 4708 E-mail: inquiries@icom.co.nz URL: http://www.icom.co.nz

Icom (Australia) Pty. Ltd.

Icom America Inc. IZ421 Willows Road NE, Kirkland, WA 98034, U.S.A. Phone: +1 (425) 454-8155 Fax: +1 (425) 454-1509 E-mail: sales@icomamerica.com URL: http://www.icomamerica.com

Icom Canada

Glenwood Centre #150-6165 Highway 17A, Delta, B.C., V4K 5B8, Canada Phone: +1 (604) 952-4266 Fax: +1 (604) 952-0090 F-mail: info@icomcanada.com URL: http://www.icomcanada.com

Icom Brazil

Rua Itorof, 444 Padre Eustáquio Belo Horizonte MG, CEP: 30720-450, Brazil Phone: +55 (31) 3582 8847 Fax: +55 (31) 3582 8887 E-mail: sales@icombrazil.com

OPTIONS

For IP100H Rapid charger Multi-charger -BC-157S BP-271 Li-ion BP-272 Li-ion BP-273 BC-202 BC-1235 *BC-123SA for 120V AC, SE for 230V AC. 1150/1200mAh 1880/2000mAh LR6 (AA) BC-211 (min./typ.) (min./typ.) batteries ×3 Headsets (Full-duplex operation) Earphone-microphones Speaker-microphones (Full-duplex operation) (Simplex operation) HS-102 Earphone type. OPC-2359 is required. HS-85 HM-153LS HM-166LS e-head type HM-183LS Use HM-153LS or HM-166LS for full-duplex HM-186LS OPC-2144 is required. aterproof operation also • MB-127: Belt Clip. Same as supplied. Headsets (Simplex operation) • OPC-2144: Slim L-Type plug adapter cable. Required when using either HS-85, HM-153, HM-166 or SP-13. • OPC-2006LS: Plug adapter cable • OPC-2328: PTT switch cable Either OPC-2006LS or OPC-2328 is required when using any of HS-94, HS-95 or HS-97. HS-95 HS-97 OPC-2359: PTT switch cable HS-94^{*} Earhook type Behind-the-head type Throat type OPC-2359 is required when using HS-102. • OPC-478UC + OPC-2144: Setup cables. * Either OPC-2006LS or OPC-2328 is required when using any of these headsets. Both cables are required for initial setup. For IP1000C For IP100FS PTT microphone AC adapter Serial cable Desktop microphone Hand microphone adapter BC-1475 CT-23 HM-152 OPC-1402 SM-26 For use with CT-23 *BC-147SA for USA plug, SE for EURO plug, SV for Australia plug. For AP-90M AC adapter Access point management software Security Dashboard

URL: http://www.asia-icom.com

Your local distributor/dealer:

Configure and monitor individual/all access points in a network for centralized management.

Count on us!

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