

900PTT IP730D/IP704D









PPE SOLUTIONS



ECO FRIENDLY SOLUTIONS



SITE SOLUTIONS



SECURITY



TRACKING SOLUTIONS



PHONES & DATA



WIRELESS & VOIP



The IP730D series from Icom is a new Hybrid radio that can provide nationwide coverage over LTE networks as well as conventional VHF/UHF professional radio mode (IDAS digital/Analogue radio modes) to work locally. The versatility of having two technologies (LTE & IDAS Digital PMR) merged into one, provides a range of options and applications for industries ranging from event and facility management to large utility infrastructure projects.

FEATURES

SUB PTT BUTTON FOR DUAL MODE OPERATION

The IP730D series has two PTT buttons; the main PTT button and the sub PTT button. You can use one for LTE communication and the other for an IDAS™/Analogue channels.



FULL-DUPLEX COMMUNICATION IN LTE MODE

The IP730D series provides full-duplex operation in LTE mode. This allows users to talk and receive at the same time, much like a telephone conversation.

1500 mW POWERFUL AUDIO

Icom's custom high-power capacity speaker delivers a loud 1500mW audio output with improved acoustic sound clarity for noisy environments. *Typical at 10% distortion.



BUILT-IN BLUETOOTH® TECHNOLOGY

Built-in Bluetooth® capability provides wireless operation with a Bluetooth® headsets, VS-3 has PTT and programmable buttons



I GPS DATA TRANSMISSION CAPABILITY

The IP730D series has a built-in GPS receiver that can automatically transmit position data at programmed intervals*. (LTE mode only) *GPS mapping software is required separately. (Mapping software availability may vary by region.)

IP67 WATERPROOF AND DUST-TIGHT SPECIFICATION

The IP730D series is durable enough to endure water pressure under 1-metre depth for 30 minutes, and has dust-tight protection. The radio meets MIL-STD-810 specifications.



EMERGENCY CALL FEATURES

By holding down the orange emergency button, users can transmit an emergency call. In addition, the radio has three emergency related functions. If one of these functions: Man Down, Lone Worker and Motion/Stationary Detection functions. If one these functions is activated, the radio automatically transmits emergency signals to alert your controller or dispatcher of any potential trouble. (Common to LTE and IDAS™ mode)



Emergency to LTE Button

DIGITAL VOICE RECORDING/PLAYBACK

The IP730D series can record incoming calls up to 4 minutes, or a maximum of 10 messages, and the user can check recorded communications.

The IP730D and IP740D are dual mode "hybrid" radios that provide nationwide coverage over LTE networks and conventional VHF/UHF professional radio mode (IDAS™ digital/ analogue mode).

OTHER FEATURES

GENERAL FEATURES

- > 136 174, 350 470, 400 500 MHz versions
- > 128 Channels / 8 Zones
- Rotary encoder with channel announcement function*1 DTMF code transmission with optional DTMF microphone, HM-245T*2
- Vibration alert function
- Surveillance function
- AquaQuake™ function prevents audio degradation from a water-logged speaker

IDAS™ OPERATING MODE

- NXDN™ conventional
- NXDN™ multi-site conventional over IP network
- IDAS™ digital simulcast

IDAS™ DIGITAL FUNCTIONS

- Over-the Air Programming (OTAP) function updates the radio configuration over the LTF
- Nover-the Air Alias (OAA)*1 displays the caller's name without programming
- Up to 500 ID numbers for IDAS™ mode can be saved in the Call List to show the alias name
- Individual, Group and All calls
- Digital voice scrambler (15-bit encryption)
- Talk back

ANALOGUE FUNCTIONS

- CTCSS and DTCS
- > 12.5 kHz channel spacing
- *1 These functions will be available with future firmware upgrades
- *2 DTMF microphone, HM-245T will be available later

LTE Mode

LTE mode provides secure private push-to-talk communication over an LTE (4G) and 3G network*. The cellular network provides coverage into building basements or high-rise floors where conventional radio systems may not reach.

* Network coverage provided by a custom SiM card. Service availability depends on the country.



IDAS™ Mode

IDAS™ digital mode is a conventional VHF/UHF radio mode using licensed professional radio channels. It also provides Individual, Group and All calls with PTT operation. When operating in remote, mountainous areas, 4G/3G networks may not be available. conventional VHF/UHF communications provide a stable, local alternative.

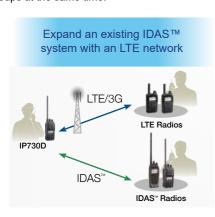


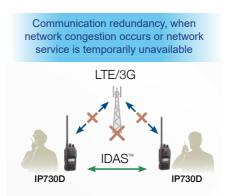
900PTT IP730D/IP740D



Dual Mode

The IP730D series can receive both communications from an LTE radio group and IDAS™ (or analogue) group at a time (audio mixed). You can press either the main PTT for LTE or the sub PTT button for IDAS™ or analogue channel to answer in accordance with pre-programming. If necessary, you can press the main and sub PTT buttons to address two groups at the same time.

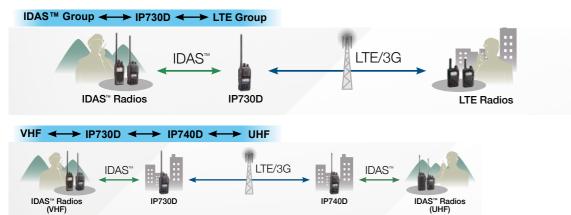




Bridge Function

The Bridge function* relays received IDAS™ digital audio to the LTE group, while transmitting the LTE radio conversations to the IDAS™ group. This function is useful when communicating outside of the LTE service coverage area with an IDAS™ radio, or temporary cross band connection between two IDAS™ radio groups using different frequencies or channels. (Not available in Analogue mode).

*When using the Bridge function, operating time will be shorter and output power of the IP730D/IP740D is reduced to 1W. The Bridge function may be prohibited in some countries. Please check legal requirements in your country before using this function.



Innovative LTE Radios
with Licensed
Professional Radio
Mode for Increased
Capacity and
Coverage

SPECIFICATIONS

| GENERAL | | | | |
|------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--|
| A 15 1 1 | Internal SP | 1500mW typ. (10% distortion | on), 1300mW typ. (5% distortion) | |
| Audio output powe (8 Ω load | | 1000mW typ. (10% distortion), 650mW typ. (5% distortion) | | |
| (0 12 1000 | HM-222H | <u> </u> | | |
| Operating temperature range | | -30°C to +60°C, -22°F to +140°F | | |
| | Power supply voltage | 7.5 V | DC nominal | |
| Current drain Rec | | | 520 mA, Stand-by 300 mA | |
| (approximate | L | | | |
| Transmit | | . , | | |
| Dimensions (H x W x D; Projections not included) | | 140.5 x 01.7 x 42.011111, 0 | 5.5 x 2.4 x 1.7 in (with BP-303) | |
| Weight (approximate) | | 320g, 11.3d | oz (with BP-303) | |
| В | luetooth® technology | | | |
| LTE (4G)/W-CDN | IA (3G) | IP730D | & IP740D | |
| Network | EUR, EXP | LTE (4G): B1, B3, B7, B8, B20 | 0 W-CDMA:B1, B | |
| | LISA | LTE (4G): B2, B4, B12 | W-CDMA:B2, B | |
| 14044011 | | LTE (4G): B1, B3, B5, B7, B8, | | |
| | Rated output power | . , |).25W | |
| Receiv | rer sensitivity (QPSK) | | - | |
| TCCCIV | Compatibility | | dBm typ. 501M, IP500APP, VE-PG4 | |
| | | | | |
| IDAS™ DIGITAL | ANALOGUE | IP730D | IP740D | |
| GENERAL | | | | |
| (* Dene | Frequency range* nding on the version) | 136 - 174 MHz | 350 - 470 MHz, 400 - 520 MHz | |
| | | | | |
| | onventional channels | | nnels / 8 zone | |
| Type of emission (Depending on the | | | (00F1E, 4K00F1D (6.25 kHz) | |
| version | | 8K50F3E (12.5 kHz), 4k | (00F1E, 4K00F1D (6.25 kHz) | |
| RANSMITTER | | | | |
| Outp | out power (Hi, L2, L1) | 5W, | , 2W, 1W | |
| | Frequency stability | ±1 | ±1.0 ppm | |
| | Spurious emissions | 90 dB typ. (TIA-603) | | |
| | Spurious erriissioris | 0.25 μW (≤ 1 GHz), 1.00 μW (| (> 1 GHz) (EN301 166, EN300 08 | |
| FM hum and noise (Without CCITT filter) | | 60 dB t | yp. (TIA-603) | |
| i wi num and noise | FKS error | 5% max. 1% | typ. (EN301 166) | |
| i wi num anu noise | | | | |
| RECEIVER | | | | |
| | | –6.5 dBμV emf typ. (0.24 μV | –7 dBμV emf typ. (0.22 μV typ | |
| | (1% BER) | typ.) (EN301 166) | –7 dBμV emf typ. (0.22 μV typ (EN301 166) | |
| RECEIVER | (1% BER) Analogue | typ.) (EN301 166) | (EN301 166) | |
| | (1% BER) Analogue (12 dB SINAD) | typ.) (EN301 166) 0.22 μV typ. (TIA-603) | (EN301 166) 0.17 μV typ. (TIA-603) | |
| RECEIVER | (1% BER) Analogue (12 dB SINAD) Analogue | typ.) (EN301 166) 0.22 μV typ. (TIA-603) -2 dBμV emf typ. (0.4 μV | (EN301 166) 0.17 μV typ. (TIA-603) –2 dBμV emf typ. (0.4 μV typ. | |
| RECEIVER Sensitivity | (1% BER) Analogue (12 dB SINAD) Analogue (20 dB SINAD) | typ.) (EN301 166) 0.22 µV typ. (TIA-603) -2 dBµV emf typ. (0.4 µV typ.) (EN300 086) | (EN301 166) 0.17 μV typ. (TIA-603) –2 dBμV emf typ. (0.4 μV typ. (EN300 086) | |
| RECEIVER Sensitivity Adjacent channel | (1% BER) Analogue (12 dB SINAD) Analogue (20 dB SINAD) Digital | typ.) (EN301 166) 0.22 µV typ. (TIA-603) -2 dBµV emf typ. (0.4 µV typ.) (EN300 086) 62 dB typ. (EN301 166) | (EN301 166) 0.17 μV typ. (TIA-603) -2 dBμV emf typ. (0.4 μV typ. (EN300 086) 63 dB typ. (EN301 166) | |
| RECEIVER Sensitivity | (1% BER) Analogue (12 dB SINAD) Analogue (20 dB SINAD) | typ.) (EN301 166) 0.22 µV typ. (TIA-603) -2 dBµV emf typ. (0.4 µV typ.) (EN300 086) 62 dB typ. (EN301 166) 67 dB typ. | (EN301 166) 0.17 μV typ. (TIA-603) –2 dBμV emf typ. (0.4 μV typ. (EN300 086) | |
| Sensitivity Adjacent channel selectivity | (1% BER) Analogue (12 dB SINAD) Analogue (20 dB SINAD) Digital | typ.) (EN301 166) 0.22 µV typ. (TIA-603) -2 dBµV emf typ. (0.4 µV typ.) (EN300 086) 62 dB typ. (EN301 166) 67 dB typ. 76.5 dBµV emf typ. | (EN301 166) 0.17 μV typ. (TIA-603) -2 dBμV emf typ. (0.4 μV typ. (EN300 086) 63 dB typ. (EN301 166) 67 dB typ. | |
| Sensitivity Adjacent channel selectivity Intermodulation | (1% BER) Analogue (12 dB SINAD) Analogue (20 dB SINAD) Digital Analogue Digital | typ.) (EN301 166) 0.22 µV typ. (TIA-603) -2 dBµV emf typ. (0.4 µV typ.) (EN300 086) 62 dB typ. (EN301 166) 67 dB typ. 76.5 dBµV emf typ. (EN301 166) | (EN301 166) 0.17 μV typ. (TIA-603) -2 dBμV emf typ. (0.4 μV typ. (EN300 086) 63 dB typ. (EN301 166) 67 dB typ. 73 dBμV emf typ. (EN301 166 | |
| Sensitivity Adjacent channel selectivity | (1% BER) Analogue (12 dB SINAD) Analogue (20 dB SINAD) Digital Analogue | typ.) (EN301 166) 0.22 µV typ. (TIA-603) -2 dBµV emf typ. (0.4 µV typ.) (EN300 086) 62 dB typ. (EN301 166) 67 dB typ. 76.5 dBµV emf typ. (EN301 166) | (EN301 166) 0.17 µV typ. (TIA-603) -2 dBµV emf typ. (0.4 µV typ.) (EN300 086) 63 dB typ. (EN301 166) | |

Measurements made in accordance with 3GPP TS-36, TIA-603, EN300 086 and EN301 166. All stated specifications are subject to change without notice or obligation.

*Bluetooth® OFF, Backlight OFF, Duty cycle TX: RX: Stand-by = 5: 5: 90 ratio.

SUPPLIED ACCESSORIES



BP-303 Battery Pack



MB-133 Belt Clip

(May differ, or not supplied, depending on version)

| IP RATING | |
|------------------------------------------------|----------------------------------|
| Ingress Protection Standard Dust & Water | IP67 (Dust-tight and waterproof) |

| BATTERY LIFE | |
|---------------------|-----------------|
| Battery Pack | BP-303 |
| Туре | Li-ion, 7.2V |
| Capacity | 3350 mAh (typ.) |
| | 3200 mAh (min.) |

| Operating time* | | |
|-----------------|-------------------------|--|
| LTE | Up to 24 hours | |
| VHF | Up to 13 hours (at 5 W) | |
| UHF | Up to 15 hours (at 1 W) | |

NINEHUNDRED COMMUNICATIONS GROUP

900PTT IP730D/IP740D



SPEAKER MICROPHONES AND EARPHONES



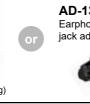






















TIE-CLIP MICROPHONES AND EARPHONES







SPEAKER MICROPHONES



HEADSETS AND PTT SWITCH CABLE

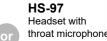


HS-94 Earhook type headset



HS-95 Neck-arm type headset









VS-5MC PTT switch cable for manual PTT. and VOX operation



CHARGERS

BC-226

BC-228

AC adapter

(Required

for multiple

connections)







BC-123S









BELT CLIPS AND HANGERS

MB-133 Belt clip (Same as supplied)

MB-136 Belt clip (Swivel type)

MB-96N Belt hanger (Swivel type)

MB-96F Belt hanger (Fixed type)

MB-96FL Belt hanger (Long type)

ANTENNAS

Standard Antennas

| FA-SC25V 136-150MHz | FA-SC57U 430-470 MHz |
|----------------------|----------------------|
| FA-SC55V 150-174MHz | FA-SC72U 470-520 MHz |
| FA-SC28V 148-162MHz | FA-SC01U 350-400 MHz |
| FA-SC29V 160-174MHz | FA-SC02U 330-380 MHz |
| FA-SC25U 400-430 MHz | FA-SC03U 380-430 MHz |

Stubby Antennas

| FA-SC26VS 136-144 MHz | FA-SC57VS 160-174 MHz |
|------------------------------|-----------------------|
| FA-SC27VS 142-150 MHz | FA-SC26US 400-450 MHz |
| FA-SC56VS 150-162 MHz | FA-SC73US 450-490 MHz |

High Gain Antennas

FA-SC62V 155 MHz FA-SC63V 160 MHz

Cut Antennas

FA-SC61VC 136-174 MHz FA-SC61UC 380-520 MHz

BATTERY PACKS AND BATTERY CASE

BP-303

Li-ion battery pack 3200mAh (min) 3350mAh (typ.) (Same as supplied)



BP-305 Battery case LR6 (AA) x5



BLUETOOTH® HEADSETS

VS-3 Bluetooth® headset





CIGARETTE LIGHTERS CABLE AND DC CABLES

CP-23L Cigarette



CARRYING

CASE



OPC-515L DC power cable (For use with BC-

SHOULDER **STRAP**

LC-195

Carrying case (Charging is possible while the case is attached)







900PTT IP730D/IP740D NINEHUNDRED COMMUNICATIONS GROUP























