IP730D Lite (LTE + VHF)
IP740D Lite (LTE + UHF)

HYBRID IP TRANSCEIVERS

Innovative LTE Radios with Licensed Professional Radio Mode



IP730D Lite IP740D Lite

Nationwide Cellular (LTE) Mode

Cellular (LTE) mode enables push-to-talk communication with nationwide coverage over a cellular network.* The IP730D Lite series is compatible with the IP503H Lite, IP transceiver.

* Network coverage provided by a generally available data SIM card. Radio registration is required separately.

IDAS™ Digital & Analogue for Local Alternative

IDAS™ digital mode and analogue FM mode are conventional VHF/UHF radio technologies that operate on licensed professional radio channels. When cellular networks are unavailable, these conventional VHF/UHF systems offer a reliable, local alternative communications.

Dual Mode Operation with Sub PTT Button

The IP730D Lite series can receive both Cellular (LTE) and IDAS™ (or analogue) mode calls simultaneously. The main and sub PTT buttons allow for seamless switching between two modes to respond to calls.

Simultaneous TalkListen™ in Cellular (LTE) Mode

The Simultaneous TalkListen™ provides full-duplex one-to-many communication in Cellular (LTE) mode, allowing users to talk and receive at the same time similar to a telephone style conversation.

IP67 Dust-Tight, Waterproof and MIL-STD-810

The IP730D Lite series is built-to withstand water pressure at a depth of 1 meter for 30 minutes and offers dust-tight protection. It also meets MIL-STD-810 specifications for durability.

Other Features

- Individual, Group, Talkgroup, Multiplex Talkgroup and All calls
- Up to 500 memory address book • Dedicated emergency button
- Man Down, Lone Worker and Motion/Stationary Detection functions
- Preprogrammed message transmission (Cellular (LTE) mode only)
- Bluetooth® capability • 1300 mW powerful audio • Vibration Alert
- Voice Recording and Playback (Up to 4 min.) • Integrated GPS

HYBRID LTE × IDAS Talk Listen™ Simultaneous Bluetooth®

IP730D·IP740D Lite

SPECIFICATIONS

GENERAL		IP730D & IP740D
Audio output power	Internal SP	1300 mW typ. (5% distortion, 8 Ω load)
	External SP	650 mW typ. (5% distortion, 8 Ω load)
	HM-222H/HM-245T	1300 mW typ. (5% distortion, 8 Ω load)
Operating temperature range		–30 °C to +60 °C
Power supply voltage		7.5 V DC nominal
Current drain (approximate)	Receive	Max. audio (INT SP) 520 mA, Stand-by 300 mA
	Transmit	Hi (5 W) 1.8 A
Dimensions (H × W × D; Projections not included)		140.5 × 61.7 × 42.8 mm (with BP-303)
Weight (approximate)		320 g (with BP-303)
Bluetooth® technology		Version: 5.3, Output: Class 1, Profile: HFP, HSP

LTE (4G)/W-CDMA (3G)		IP730D & IP740D
Network	EUR	LTE (4G): B1, B3, B7, B8, B20 W-CDMA (3G): B1, B8
Rated output power		0.25 W
Receiver sensitivity (QPSK)		–95 dBm max.
Compatibility		IP503H Lite

IDAS™ digital/Analogue		IP730D	IP740D
GENERAL			
Frequency range* (* Depending on the version)		136 ~ 174 MHz	350 ~ 470 MHz
Number of conventional channels		128 channels /8 zone	
Type of emission	EUR	16K0F3E, 8K50F3E, 4K00F1E/F1D	
TRANSMITTER			
Output power (Hi, L2, L1)		5 W, 2 W, 1 W	
Frequency stability		±1.0 ppm	
Spurious emissions		0.25 µW (≤ 1 GHz), 1.0 µW (> 1 GHz)	
FM hum and noise (Without CCITT filter)		70/60 dB typ. (W/N)	
FSK error		5% max. 1% typ. (Digital)	
RECEIVER			
Sensitivity	D (1% BER)	–6.5 dBµV emf typ.	–7 dBµV emf typ.
	A (20 dB SINAD)	–2 dBµV emf typ. (N)	–2 dBµV emf typ. (N)
Adjacent channel selectivity	Digital	62 dB typ.	63 dB typ.
	Analogue	72/67 dB typ. (W/N)	72/67 dB typ. (W/N)
Intermodulation	Digital	76.5 dBµV emf typ.	73 dBµV emf typ.
	Analogue	67 dB typ.	66 dB typ.
Hum and noise (Without CCITT filter)		60 dB typ. (W/N)	

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.

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810G	
	Method	Procedure
Low Pressure	500.5	I, II
High Temperature	501.5	I, II
Low Temperature	502.5	I, II
Temperature Shock	503.5	I-C
Solar Radiation	505.5	I
Rain Blowing/Drip	506.5	I, III
Humidity	507.5	II
Salt Fog	509.5	–
Dust Blowing	510.5	I
Immersion	512.5	I
Vibration	514.6	I
Shock	516.6	I, IV

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

IP Rating

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

Supplied accessories:
• BP-303 battery pack • MB-133 belt clip

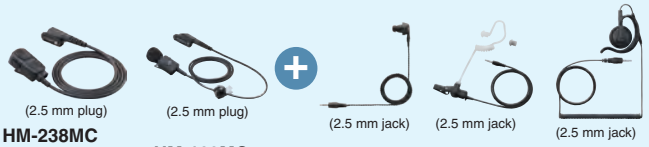
OPTIONAL ACCESSORIES

SPEAKER MICROPHONES



HM-245T DTMF microphone with sub PTT button
HM-222H High-power speaker
HM-184H High-power speaker
HM-236 Compact type

TIE-CLIP MICROPHONES and EARPHONES



HM-238MC Tie-clip microphone with sub PTT button
HM-163MC Tie-clip microphone
EH-15B
SP-26 Tube type
SP-28 Earhook type

HEADSETS and PTT SWITCH CABLE



HS-94 Earhook type headset
HS-95 Neck-arm type headset
HS-97 Headset with throat microphone
VS-5MC For manual PTT, and VOX operation

BLUETOOTH® HEADSET



VS-3

BATTERY PACKS and CASE



BP-303 Li-Ion 3200 mAh (min.) 3350 mAh (typ.) LTE: 24 hours, VHF/UHF: 13 hours*
BP-305 Battery case LR6 (AA)× 5 cells

CARRYING CASE



LC-195 Charging is possible while the case is attached

EARPHONE ADAPTER



AD-135 Use with SP-27, SP-29 or SP-40 earphone (3.5 mm jack)

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

CHARGERS

Up to six BC-226 units connectable



BC-226 Multi-connectable rapid charger
BC-123S For single unit. Straight plug
BC-228 AC adapter for multiple connections
BC-227 AC adapter supplied

Belt Clips
MB-133 Same as supplied
MB-136 Swivel type

Belt Hangers
MB-96N Swivel type
MB-96F Fixed type
MB-96FL Long type

Cigarette Lighter Cable
CP-23L For use with BC-227

DC Power Cable
OPC-515L For use with BC-227

Standard Antennas
FA-SC25V 136 ~ 150 MHz
FA-SC55V 150 ~ 174 MHz
FA-SC28V 148 ~ 162 MHz
FA-SC29V 160 ~ 174 MHz
FA-SC25U 400 ~ 430 MHz
FA-SC57U 430 ~ 470 MHz
FA-SC01U 350 ~ 400 MHz
FA-SC02U 330 ~ 380 MHz

Stubby Antennas
FA-SC26VS 136 ~ 144 MHz
FA-SC27VS 142 ~ 150 MHz
FA-SC56VS 150 ~ 162 MHz
FA-SC57VS 160 ~ 174 MHz
FA-SC26US 400 ~ 450 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

Note for IP730D/IP740D users:
The IP730D Lite /IP740D Lite uses a generally available data SIM card and is controlled by the IP4000C system, which is compatible with the IP503H Lite.
The LTE mode of the IP730D Lite /IP740D Lite is not compatible with LTE mode of the IP730D/IP740D radios which use a closed network provided by custom Icom SIM card.

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