



U.S. Aviation Product Book

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American Communication Systems

Discover the Power of Communications™

<http://www.ameradio.com>



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Handhelds



A16

VHF Air Band Handheld

SPECS

Frequencies:

Tx 118.000-136.99166MHz

Rx 108.000-136.99166MHz

(Weather) 161.650-163.275MHz

Output Power: 6.0W (PEP), 1.8W (carrier)

Channels: 200

Channel Spacing: 8.33kHz/25kHz

Display: LCD and keypad backlight

Mode: AM (6K00A3E)

FM (16K0G3E)

Mil Spec: MIL 810 C,D,E,F, G

Waterproof Rating: IP67/IP54

Weight: 9.1 oz (with BP280)

Version: Communications only
Communications only with
Bluetooth



FEATURES

Compact, light weight and rugged body

Large capacity Li-ion battery

1500mW loud audio for clear communications

Bluetooth® version for hands-free operation

LCD and key backlight for night time operation

Compatible with third-party aviation headsets

Auto Noise Limiter (ANL) for noise reduction

Internal VOX capability

BNC type antenna connector

COMES WITH

Battery (BP280)

Charger (BC213)

AC adapter (BC123SA)

Belt clip (MB133)

Antenna (FAB02AR)

Handstrap

Owner's manual

Warranty: 3-Year

A16

VHF Air Band Handheld

Configurations

Model	Description
A16 61 USA	Communications only avionics handheld with full keypad
A16B 51 USA	Communications only avionics handheld with Bluetooth and full keypad

Accessories

Model	Description
CSA16	A16 cloning software
Antennas	
FAB02AR	Supplied antenna for Aviation handheld radios
Batteries	
BP280	Li-ion 7.2V 2280mAh battery
Belt Clips	
MB133	Alligator type belt clip
MB96N	Swivel belt hanger to use with belt clip
Chargers	
AD130	Adapter cup that fits into the BC214 for radios with BP279/BP280
BC123SA	Straight-angle AC adapter for rapid chargers; 100-240V with US style plug
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug
BC157S	AC adapter for gang chargers; 100-240V with US style plug
BC157SE	AC adapter for gang chargers; 100-240V with Euro style plug
BC213	Rapid charger with a US plug for radios with the BP279/BP280 battery (BC-123SA or BC242 included)
BC213NAC	Rapid charger cup for radios with the BP279 battery (BC-123S not included)
BC214	Six bank charger with US plug AC adapter and cups installed
BC214E	Six bank charger with EURO plug AC adapter and cups installed
CP23L	12V cigarette lighter cable for use with rapid chargers
MB130	Vehicle charger bracket holds rapid charger; requires cigarette lighter cable
Headsets	
OPC2401	Headset adapter with screw down connector (A16)
PTT SW	Avionic PTT switch that plugs into headset
VS3	Compact lapel PTT Bluetooth with earphone w/3.5mm jack
Microphones	
HM240	Waterproof aviation speaker mic (2-pin)
Software & Cables	
OPC478UD	USB programming cable (2-pin connectors handhelds)

A25

VHF Air Band Handheld

SPECS

Frequencies:

Tx (COM)	118.000-136.975MHz
Rx (COM,NAV)	108.000-136.975MHz
(Weather)	161.650-163.275MHz

Output Power: 6W typ. (PEP), 1.8W (CW)

Channels: 200 (20 CH x 10 banks)

Channel Spacing: 8.33/25KHz

Mode: 6K00A3E, 5K60A3E

(Weather) 16K0G3E

Waterproof: IP57 dust-protection and waterproof

Mil Spec: MIL 810 G

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

Weight (approx): 12.0 oz

Versions: Communications plus navigation
Communications only



FEATURES

General Features:

Easy to use interface with full keypad

2.3" LCD

Night mode option

"Flip-flop" channel recall

Smart battery with detailed battery status

121.5MHz emergency key

Weather channels

Priority watch

VFO scan, memory-channel scan, priority scan

Navigation Features:

Built-in Bluetooth® for hands-free operation

Built-in GPS with waypoint NAV

Store up to 10 flight plans and 300 waypoints

Flight plans with Android™/iOS™ app

Create flight plan

Set Direct-to Nav

Display flight information

Display waypoint information

VOR navigation functions

CDI (course deviation indicator)

OBS (omni bearing selector)

TO-FROM indicator

ABSS (automatic bearing set system)

Near station function assists in accessing nearby ground stations

Supplied Accessories

A25C/A25N

Antenna (FAB02AR)

Battery pack (BP288)

Belt clip (MB133)

Headset adapter (OPC2379)

Rapid charger (BC224 + BC123SA)

Handstrap

Owner's manual

Warranty: 3-Year

A25

VHF Air Band Handheld

Configurations

Model	Description
A25C 86 USA	Communications only avionics handheld 6W with li-ion battery and rapid charger
A25N 76 USA	Communications plus navigation avionics handheld 6W

Accessories

Model	Description
Antennas	
FAB02AR	Supplied antenna for Aviation handheld radios
Batteries	
BP288	2350mAh li-ion 7.2V battery; IP57
BP289	Battery case 6 x AA; IP54
Belt Clips	
MB133	Alligator type belt clip
MB96N	Swivel belt hanger to use with belt clip
Cables	
OPC2144	Right angle plug adapter cable to plug old straight pin connector headsets into (recommended to use with OPC478UC, not needed with OPC478UD when programming radios)
OPC2379	Headset adapter cable for A25
Carrying Cases	
NCA25	Nylon case for the A25
Chargers	
BC123SA	Straight-angle AC adapter for rapid chargers; 100-240V with US style plug
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug
BC224	Rapid charger with BC123SA
BC224E	Rapid charger with BC123SE (Euro plug)
CP20	Cigarette lighter cable with noise filter and DC-DC converter. Charges the BC167 with a 12V/24V cigarette lighter socket.
MB130	Vehicle charger bracket holds rapid charger; requires cigarette lighter cable
Headsets	
PTT SW	Avionic PTT switch that plugs into headset
VS3	Compact lapel PTT Bluetooth with earphone w/3.5mm jack
Microphones	
HM231	Waterproof speaker microphone (A25)
Software & Cables	
CSA25	USB programming software for the A25
OPC478UD	USB programming cable (2-pin connectors handhelds)

Mobiles / Panel Mounts



A120

VHF Air Band Mobile

SPECS

Frequencies:	118.000-136.992MHz
Output Power:	36W typ. (P.E.P.)
Channels:	200 with 12 character channel names
Channel Spacing:	8.33/25kHz
LCD Display:	Dot-matrix with alphanumeric icons & characters
Waterproofing:	IP54 dust protection & water resistant
Mil Spec:	810 C, D, E, F, G
Weight (approx):	3 lb 3 oz



FEATURES

- Active Noise Cancelling (ANC) reduces background noises
- Optional Bluetooth® board to connect to Bluetooth® headsets
- Program channels from the front panel
- ON-hook scan
- Dual watch
- Side tone function
- Dual watch and priority scan functions
- Compatible with both 12V and 24V systems
- Power on password protection
- CI-V commands for external control
- Connect with other radio devices with the VEPG4 RoIP gateway

COMES WITH

- Hand microphone (HM216)
- DC power cable
- Mounting bracket
- Microphone hanger kit
- Fuses
- Owner's manual
- Warranty: 2-Year

IP54
DUST PROTECTION
& SPLASH PROOF



A120

VHF Air Band Mobile

Configurations

Model	Description
A120 24 USA	Airband mobile with 200 channels with open VFO, 8.33/25kHz
A120B 24 USA	A120 with 120V power supply and cover for base station. Optional assembly available.

Accessories

Model	Description
Antennas	
B ANT	Avionic mobile base station antenna 118.8-126.8MHz with 50'4" cable
K220A MAG	Aviation mobile antenna with a magnetic mount
K220C NMO	Aviation mobile antenna with a NMO permanent mount for 3/4" hole; includes 17" RG58A/U coax cable
Cables	
OPC2275	5m audio connection cable between the VEPG3 and the F5061/D series or A120 (RJ-45 modular plug connector with speaker plug).
OPC440	Microphone extension cable (RJ-45 M/F) (16.4ft)
Encryption & Internal Modules	
UT133	Bluetooth unit
External Speakers	
SP30	20W large external speaker
SP35	5W external speaker with 3.5mm speaker jack and 2m cable
Headsets	
OPC871A	Headset adapter A120/A110
PTT SW	Avionic PTT switch that plugs into headset
VS3	Compact lapel PTT Bluetooth with earphone w/3.5mm jack
Microphones	
HM216	Microphone for A120
HM217	Microphone with built-in speaker and front panel includes up/down buttons and two programmable buttons (P1/P2)
SM26	Desktop microphone with monitor switch for mobile radios
Power Supplies	
CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station
IAPS11	120V power supply and cover for base station use on the A120
Software & Cables	
CSA120	USB programming software for the A120
OPC478UD	USB programming cable (2-pin connectors handhelds)
OPC592	Programming cloning cable to use with OPC-478UC

A220

VHF Air Band Panel Mount

SPECS

Frequencies:

TX/RX 8.33kHz	118.000-136.992MHz
25kHz	118.000-136.975MHz
RX Weather channel	161.650-163.275MHz

Frequency spacing: 8.33kHz/25kHz

Output Power: 8W typical (carrier power)

Channels: 20 regular memory
50 (10 Ch x 5 groups) group memory
10 GPS, 10 weather
10 auto stack memory

Display: Organic light emitting diode (OLED)

Mil Spec: 810 C, D, E & F

Scan: VFO

Weight (approx): 2.2 lb



FEATURES

- Automatic squelch function
- White OLED display with white key backlight
- Easy channel selection
- GPS memory function*
- 12V/24V DC power source
- Intercom functions
- D-sub 25-pin industry standard connector for easy installation
- Two types of menu mode: setting menu and configuration menu
- One touch access to 121.5MHz emergency frequency
- Side tone function for monitoring your voice with headset
- ANL (Automatic noise limiter) function reduces pulse type noise
- Remote control capability
- Time-out-timer
- PC programming capability
- Dial lock and panel lock
- Dual watch and priority watch functions

COMES WITH

- Mounting bracket kit
- Owner's manual
- Warranty: 2-Year

A220

VHF Air Band Panel Mount

Configurations

Model	Description
A220	Panel mount aviation radio
A220B	Radio plus PS80 power supply for base station option (radio not installed into power supply)
A220M	Radio with MB-53 for mobile mount
A220TSO 71 USA	TSO approved panel mount aviation radio

Accessories

Model	Description
Antennas	
B ANT	Avionic mobile base station antenna 118.8-126.8MHz with 50'4" cable
K220A MAG	Aviation mobile antenna with a magnetic mount
K220C NMO	Aviation mobile antenna with a NMO permanent mount for 3/4" hole; includes 17" RG58A/U coax cable
Cables	
OPC1529R	Data cable (RS232 to 3.5mm)
OPC2350LU	Smart phone data cable
External Speakers	
SP35	5W external speaker with 3.5mm speaker jack and 2m cable
Microphones	
HM176	Microphone for the A220/A210/A200/PS80
SM30	Compact desktop microphone with low cut function
SM50	Desktop unidirectional microphone with up/down switches and low cut function
Mounting Hardware	
A200 TRAY	Mounting tray for A200/A210/A220
MB53	Mobile mounting bracket that includes HM176 microphone, SP35 external speaker, MBA-3 rear panel adapter, and harness for A200/A210/A220
MBA3	Rear panel adapter with a card edge connector for the A220
Power Supplies	
INSTALLATION AVIONICS	Install radio into power supply
PS80 11B USA	Power supply (120 VAC) for A220/A210/A200. Includes the HM-176 & MBA-3.
Software & Cables	
CSA220	USB programming software for the A220

Fixed Comms Infrastructure



X-BAND Air Repeater

Cross Band Airband AM/VHF FM or Airband AM/UHF FM

SPECS

Frequencies: AV + 136-174MHz
AV +, 400-470MHz
Output Power: 50W (VHF), 45W (UHF)
Channels: 128 channels, 8 zones
Channel Spacing: UHF: 12.5kHz
Airband: 25kHz/8.33kHz
PLL Channel Spacing: 2.5, 3.125kHz
Display: LCD with 8-character alphanumeric



FEATURES

Full UHF & VHF analog & Airband AM interoperability
Configured to auto switch from AC to DC
Local controlled operation, can be used as a dual base unit
Programmable actions when a matched tone is received:

- Bell icon indication ON / OFF / Blink
- Answer back calls
- Beep sounds
- Scan Start / Stop
- Auto transmission
- Stun / Kill functions (prevents use of a lost or stolen)

10 scanning lists and Normal / Priority scan
Power ON password

SIGNALING

CTCSS/DTCS decode
2/5 Tone
MDC1200

WARRANTY

Radios: 2 years
Parts: 1 year

Configurations

Model	Description
IAS X-BAND 50 AIR U	Airband AM & UHF FM cross band repeater
IAS X-BAND 50 AIR V	Airband AM & VHF FM cross band repeater

Accessories

Model	Description
EXTWARRPT1	1 year extended warranty for a total 3 years
EXTWARRPT2	2 year extended warranty for a total 4 years
EXTWARRPT3	3 year extended warranty for a total 5 years
Cabinets	
IASMNT1030	30" (17RU) locking indoor cabinet
IASMNT1046	46" (26RU) locking indoor cabinet
IASMNT1060	60" (34RU) locking indoor cabinet
Microphones	
HM152	Microphone for low/mid range mobile radios
HM216	Microphone for A120
HM217	Microphone with built-in speaker and front panel includes up/down buttons and two programmable buttons (P1/P2)
SM26	Desktop microphone with monitor switch for mobile radios
Racks	
IASMNT1028	28x19, 16U desktop 2-post rack; 350lb weight capacity
IASMNT1042	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity
IASMNT1070	70x19 welded steel 2-post rack; 40U, 1,500lb weight capacity
Software & Cables	
CSF3021/F5021/F5011	USB programming software for the F3021/5021/5011 series
PROG-IAS	Icom to program repeaters with provided icf file or add in basic frequencies

A14

A14 is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description
Antennas	
FAB02AR	Supplied antenna for Aviation handheld radios
Batteries	
BP232H	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value)
Belt Clips	
MB93	Swivel belt clip
MB94	Alligator belt clip
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body
MB96N	Swivel belt hanger to use with belt clip
Chargers	
BC123SE	AC adapter for rapid chargers; 100-240V with Euro style plug
BC147SA	AC adapter for trickle chargers; 100-240V with a US style plug
BC147SE 15	AC adapter for trickle chargers; 230V with a Euro style plug
BC157S	AC adapter for gang chargers; 100-240V with US style plug
BC157SE	AC adapter for gang chargers; 100-240V with Euro style plug
BC160	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug
BC160E	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug
BC197 23	Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with Euro style plug
CP23L	12V cigarette lighter cable for use with rapid chargers
MB130	Vehicle charger bracket holds rapid charger; requires cigarette lighter cable
Headsets	
PTT SW	Avionic PTT switch that plugs into headset
Microphones	
HM234	Aviation speaker mic (2-pin right angle connector)
Software & Cables	
CSA14	USB programming software for the A14/A14S
OPC478UD	USB programming cable (2-pin connectors handhelds)

A24 / A6

A24 / A6 is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description
Antennas	
FAB02AR	Supplied antenna for Aviation handheld radios
Batteries	
BP208N	Battery case that holds 6 AA alkaline batteries.
BP210N	NiMH 7.2V 1650mAh battery
Belt Clips	
MB103	Alligator belt clip
MB86	Swivel belt clip that screws into back of radio
MB96N	Swivel belt hanger to use with belt clip
Chargers	
BC157S	AC adapter for gang chargers; 100-240V with US style plug
BC157SE	AC adapter for gang chargers; 100-240V with Euro style plug
BC167SA	Wall trickle charger; 100-240V with US style plug
CP20	Cigarette lighter cable with noise filter and DC-DC converter. Charges the BC167 with a 12V/24V cigarette lighter socket.
CP23L	12V cigarette lighter cable for use with rapid chargers
Headsets	
PTT SW	Avionic PTT switch that plugs into headset
Microphones	
HM234	Aviation speaker mic (2-pin right angle connector)
Software & Cables	
OPC478UD	USB programming cable (2-pin connectors handhelds)



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