Aviation Radio Frequencies (Australia)

iCOM IC-A15 Transceiver

Setting a frequency
Select desired frequency using one of the following 2 methods:

1. Push **[CLR]** and use the **Up/Down arrow keys** to set the frequency
2. Push **[CLR]** and use the digit keypad to input the frequency

Memory Bank Selection
200 frequencies can be stored in memory channels in the IC-A15. Up to 20 frequencies can be organised into up to 10 memory groups. To select a memory bank group:

- Push **[MR]**, **[FUNC]**, **(3)[BANK],** then use **the** Up/Down arrow keys or appropriate digit key to select a memory bank number, then press **[ENT]**

Selecting a memory channel within the memory bank
A stored frequency can display an associated 8-character *Alpha Tag* name instead of the memorised frequency. To select a frequency within the memory bank group:

- Use the **Up/Down arrow keys** or 2 appropriate digit keys to select a memory channel, then press **[ENT]**

Lock Function
The lock function prevents accidental frequency changes or function activation. Push the key symbol button on top of the transceiver to activate, and press again and hold for 2 seconds to deactivate.

Local Common Traffic Advisory Frequency (CTAF) Frequencies

Frequency	Alpha Tag	Description	Memory Bank
126.70	**CTAF-NT**	**Common Traffic Advisory Frequency (CTAF) for Non-Towered aerodromes**	4
118.30		Williamtown/WILLY AH	
118.85		Jervis Bay	
		Nowra AH	
120.10		Camden AH	4
120.80		Rose Bay	
122.55		Wedderburn	
122.65		Maitland	
127.15		Goulburn	
		Towrang Gliding	
127.30		Wollongong	4
127.35		Bathurst	
132.10		Somersby	
		Warnervale	
132.80		Bankstown AH	
135.50		Richmond AH	

Example Calls on a CTAF (Common Traffic Advisory Frequency)

Call Type	Normal	Urgent	Distress
	-	PAN PAN, PAN PAN, PAN PAN	MAYDAY, MAYDAY, MAYDAY
Where you are (Traffic)	Wollongong Traffic		
Who you are (Callsign)	UAV Mavic	UAV Mavic	UAV Mavic
Where you are (Position)	2 miles east of the airfield.	2 miles east of Wollongong airfield.	2 miles east of Wollongong airfield.
Nature of Call	Becoming airborne for powerline inspection.		UAV fly away. Out of control.
Intentions	Not above 400 feet, and a half mile of current location. For the next two five (25) minutes.		Attempting to re-establish control of the UAV.
End of message	Wollongong	-	-

Sydney Airport Operations

Frequency	Alpha Tag	Description	Memory Bank
112.10	ATIS	SYDNEY ATIS	
118.40	DEP WEST	SYDNEY DEPARTURE WEST	4
118.55	ATIS	SYDNEY ATIS	
119.45	WEST	SYDNEY PRIMARY WEST	
120.50	TOWER 1	SYDNEY TOWER 1	
121.10	FLIGHTWATCH	FLIGHTWATCH	
121.70	GROUND 1	SYDNEY GROUND 1	
123.00	DPP NTH	SYDNEY DEPARTURES NORTH	
124.40	APP NTH	SYDNEY APPROACH NORTH	
124.55	RADAR 2	SYDNEY RADAR 2	4
124.70	TWR 2	SYDNEY TOWER 2	
125.30	DIR EST	SYDNEY DIRECTOR EAST	4
125.80	RADAR 1	SYDNEY RADAR 1	
126.10	DIR WST	SYDNEY DIRECTOR WEST	4
126.25	ATIS	SYDNEY ATIS	
126.50	CLEAR 1	SYDNEY CLEARANCE DELIVERY 1	4
126.50	GROUND 2	SYDNEY GROUND 2	
128.30	APP STH	SYDNEY APPROACH SOUTH	4
129.70	DPP STH	SYDNEY DEPARTURES SOUTH	4
133.80	CLEAR 2	SYDNEY CLEARANCE DELIVERY 2	4
133.95	EAST	SYDNEY PRIMARY EAST	4
135.10	TERMINAL	SYDNEY TERMINAL	4
135.90	APP WST	SYDNEY APPROACH WEST	4
135.90	RICH APP	RICHMOND APPROACH & R-569	

Phonetic Alphabet

A	Alpha	al **fah**	**N**	November	no **vem** ber
B	Bravo	**brah** voh	**O**	Oscar	**oss** cah
C	Charlie	**char** lee	**P**	Papa	pah **pah**
D	Delta	**dell** tah	**Q**	Quebec	Kah **beck**
E	Echo	**eck** ho	**R**	Romeo	**row** me oh
F	Foxtrot	**foks** trot	**S**	Sierra	see **air** rah
G	Golf	**golf**	**T**	Tango	**tang** go
H	Hotel	hoh **tel**	**U**	Uniform	**you** nee form
I	India	in dee a	**V**	Victor	**vik** tah
J	Juliet	jew lee **ett**	**W**	Whiskey	**wiss** key
K	Kilo	**key** lou	**X**	X-ray	**ecks** ray
L	Lima	**lee** mah	**Y**	Yankee	**yang** key
M	Mike	**mike**	**Z**	Zulu	**zoo** loo

Number Pronunciation

0	ZE-RO	**5**	FIFE	**DECIMAL**	DAY SEE MAL
1	WUN	**6**	SIX	**HUNDRED**	HUN dred
2	TOO	**7**	SEV en	**THOUSAND**	TOU SAND
3	TREE	**8**	AIT		
4	FOWer	**9**	NINer		

Realistic PRO-43 Programmable Scanner

The scanner can store 210 frequencies (*Channels*) in 10 groups of 10 frequencies (*Banks*), plus 10 *monitor memories* for temporarily storing frequencies.

The **KEYLOCK** switch protects against accidental use of all buttons except **[SCAN]** and **[MANUAL]**.

The **[SCAN]** button makes the scanner scan through the programmed channels.

The **[MANUAL]** button stops scanning and enables direct entry of a channel number.

See the Scanner Owner's Manual for details about programming channels.

To manually select an air frequency from channels already programmed:
- Press **[MANUAL]** button on Scanner
- Enter the channel number (you might need to switch **KEYLOCK** off) and then press the **[MANUAL]** button again
  - or
- If the scanner has stopped at the desired channel, press the **[MANUAL]** button
- Press the **[MANUAL]** button additional times to step through the channels

The scanner has been programmed for the following channels:

Freq.	Ch.	Alpha Tag	Description
112.10		ATIS	SYDNEY ATIS
118.40	61	DEP WEST	SYDNEY DEPARTURE WEST
118.50	62	MELB CTR	MELBOURNE CENTRE
118.55		ATIS	SYDNEY ATIS
119.45	63	WEST	SYDNEY PRIMARY WEST
120.10	64	CAMDEN	CAMDEN TOWER / CTAF AH
120.50		TOWER 1	SYDNEY TOWER 1
121.10		FLIGHTWATCH	FLIGHTWATCH
121.20	65	MELB CTR	MELBOURNE CENTRE (NOWRA & MITTAGONG)
121.70		GROUND 1	SYDNEY GROUND 1
123.00		DPP NTH	SYDNEY DEPARTURES NORTH
124.40		APP NTH	SYDNEY APPROACH NORTH
124.55	66	SY CEN	SYDNEY CENTRE (KINGS TABLELAND)
124.70		TWR 2	SYDNEY TOWER 2
125.30	67	DIR EST	SYDNEY DIRECTOR EAST
125.80		RADAR 1	SYDNEY RADAR 1
126.10	68	DIR WST	SYDNEY DIRECTOR WEST
126.25		ATIS	SYDNEY ATIS
126.50	69	CLEAR 1	SYDNEY CLEARANCE DELIVERY 1
126.70	70	CTAF	COMMON TRAFFIC ADVISORY FREQUENCY
127.30	71	YSHL	SHELLHARBOUR AIRPORT
128.30	72	APP STH	SYDNEY APPROACH SOUTH
129.70	73	DPP STH	SYDNEY DEPARTURES SOUTH
129.80	74	ML CEN	MELBOURNE CENTRE (MT McALISTER)
133.80	75	CLEAR 2	SYDNEY CLEARANCE DELIVERY 2
133.95	76	EAST	SYDNEY PRIMARY EAST
135.10	77	TERMINAL	SYDNEY TERMINAL
135.90	78	APP WST	SYDNEY APPROACH WEST
135.90		RICH APP	RICHMOND APPROACH & R-569

East Coast Airport Radio Frequencies (Air Traffic Services)
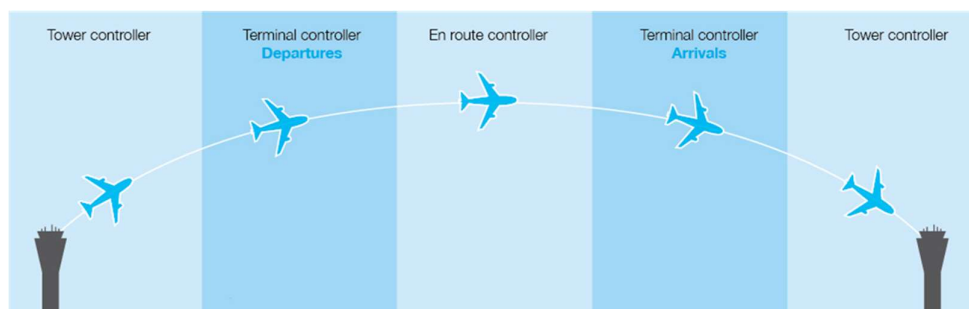
Tower -> Departures -> Brisbane/Melbourne Centre -> Approach -> (Director ->) Tower

Sydney (YSSY) **R/W 16L & R/W 16R North to South R/W 34L & R/W34R South to North R/W 07 West to East, R/W 25 East to West:**

Sydney Tower	TWR	120.5	RWY's 16R/34L, 07/25
Sydney Tower	TWR	124.7	RWY's 16L/34R
Sydney Director W	APP	126.1	
Sydney Director E	APP	125.3	
Sydney Departures South	DEP	129.7	Routes S, W & NW
Sydney Departures North	DEP	123.0	Routes N & E, Low level city coverage unreliable
Sydney Clearance Delivery	ACD	127.6	For tower or ground controller to speak to any particular aircraft
Sydney Clearance Delivery	ACD	133.8	
Sydney Approach South	APP	128.3	BTN 45NM S and 10NM N
Sydney ATIS	ATIS	112.1 118.55 126.25 428	
Flightwatch	FIA	121.1	
Sydney PRM E	PRM	133.95	RWY 16L/34R
Sydney PRM W	PRM	119.45	RWY 16R/34L
Sydney Radar	RADN	125.8	FIA North
Sydney Radar	RADS	124.55	FIA South
Sydney Terminal	TFC	135.1	For inbound ACFT within 45NM of Sydney
Sydney Approach North	APP	124.4	BTN 45NM N and 10NM S
Sydney Departures West	DEP	118.4	Routes S,W & NW outside 15NM SY
Sydney Ground	SMC	121.7	E of RWY 16R/34L
Sydney Ground	SMC	126.5	W of RWY 16R/34L
Sydney Approach West	APP	135.9	RI CTR ABV 1,500FT
Sydney Approach West	APP	363.8	
Brisbane Centre		123.4 128.6	North of Sydney
Melbourne Centre		118.5 133.5	South of Sydney

Richmond (YSRI) **R/W 10 West to East, R/W 28 East to West:**

Richmond Ground	SMC	128.25	
Richmond Ground	SMCV	121.65	
Richmond Flightwatch	FIA	121.1	
Sydney Approach	APP	135.9	
Sydney Approach	APP	363.8	
Richmond Tower	TWR	135.5	
Richmond Tower	TWR	243.0	
Richmond Tower	TWR	257.3	
Richmond	ATIS	274.55 347	
Sydney Radar	FIA	124.55	On ground

Bankstown (YSBK):

Bankstown Tower	TWR	132.8

Camden (YSCN):

Camden Tower	TWR	120.1

Newcastle (YWLM) **R/W 12 West to East, R/W 30 East to West:**

Newcastle Domestic Airport	462.275 509.650

Williamtown (YWLM) **R/W 12 West to East, R/W 30 East to West:**

Willy Tower	TWR	118.3 243.0 257.8	
Willy Ground	SMC	121.8	
Willy Clearance Delivery ACD		130.35	
Willy Ground	SMCV	127.25	
Willy ATIS	ATIS	316.1 365	
Willy Approach	APP	135.7 243.0 293.4	
Willy Centre	ACC	133.3 243.0 261.4	
Flightwatch	FIS	121.6	
Brisbane Centre	FIA	125.7	On ground

Brisbane (YBBN) **R/W 01 North to South, R/W 19 South to North, R/W 14 West to East, R/W 32 East to West :**

Brisbane Tower	TWR	120.5	
Brisbane Ground	SMC	121.7	
Brisbane Clearance Delivery	ACD	118.6	
Brisbane ATIS	ATIS	113.2 125.5	
Brisbane Radar	RIS	125.7	
Brisbane Departures	DEP	128.3	WI 30NM of BN, NW of extended C/L, RWY 01/19
Brisbane Approach	APP	124.7	WI 30NM of BN, NW of ext'd RCL RWY 01/19
Brisbane Approach	APP/DEP	123.5	Gold Coast Approach Services
Brisbane Approach	APP/DEP	125.6	WI 30NMof BN, SE of ext, CL RWY 01/19
Brisbane Radar	FIA	125.7	

Gold Coast (YBCC) **R/W 14 North to South, R/W 32 South to North:**

Brisbane APP	APP	123.5	
Gold Coast Ground	ACD	121.8	
Gold Coast Ground	SMC	121.8	
Gold Coast Tower	TWR	118.7	
Gold Coast Tower	TWR	121.8	
Gold Coast	ATIS	112.3 134.5	
Brisbane Radar	FIA	119.5	On Ground (Outside TWR HR)

Melbourne (YMML) **R/W 09 West to East, R/W 27 East to West, R/W 16 North to South, R/W 34 South to North:**

Melbourne Ground	SMC	121.7	
Melbourne Tower	TWR	120.5	
Melbourne Departures	DEP	118.9	Routes 264 radial through N to 092 radial
Melbourne Departures	DEP	129.4	Routes 263 radial through S to 093 radial
Melbourne Approach	APP	132.0	
Melbourne ATIS	ATIS	114.1 132.7	
Melbourne Clearance Del.	ACD	127.2	

Adelaide (YPAD) R/W 05 South to North, R/W 23 North to South, R/W 12 West to East, R/W 30 East to West:

Adelaide Clearance Delivery	ACD	126.1	
Adelaide Tower	TWR	120.5	
Adelaide Ground	SMC	121.7	
Adelaide ATIS	ATIS	116.4 134.5 362	
Adelaide Approach	APP	130.45	WI 36NM of Adelaide
Adelaide Approach	APP	243.0	WI 36NM E of Adelaide
Adelaide Approach	APP	124.2	WI 36NM W of Adelaide
Adelaide Approach	APP	128.6	WI 50NM N of Adelaide

Various Other Useful Aviation Frequencies for the East Coast of Australia:

282.8	Search & Rescue – Australia Wide
301.5	Williamtown – Air to Air Refuelling
398.075	Williamtown – RAAF Police
398.650	Williamtown – RAAF Refuellers
256.5	2 OCU Company Williamtown
301.1	3 SQN. Company Williamtown
311.6	77 SQN. Company Williamtown
126.250	76 SQN. Company Williamtown

125.7	ATS – FIS Sydney, Aeropelican/Cessnock/Maitland/ Scone/Warnevale	
126.0	ATS – CTAF Aeropelican/Warnervale	
122.650	ATS – CTAF Cessnock/Maitland	
118.8	ATS – CTAF Scone	
126.4	Seaplane Services, Company Channel	
156.450	Seaplane Services, Harbour Clearance	
119.1	Civilian – Aeroclubs	
122.7	Civilian – Gliders	
122.9	Civilian – Parachute Aircraft	
123.450	Civilian – Chatter Air to Air	
126.350	Official Air to Air, Below Flight Level 200	
128.950	Official Air to Air, Above Flight Level 200	
135.475	Chatter (East Coast Night Freighters)	
134.875	Chatter (East Coast)	
132.750	Air Ambulance	
130.225	JetStar	
484.950	Westpac Rescue Helicopter	
126.9	Brisbane Centre	
123.4	Sydney Centre	
119.7	Richmond Centre	
119.7	Brisbane Centre	
120.550	Brisbane Centre	
123.4	Brisbane Centre	
124.625	Brisbane Centre	
135.475	Chatter (East Coast Night Freighters)	
134.875	Chatter (East Coast)	
132.750	Air Ambulance	
130.225	JetStar	
484.950	Westpac Rescue Helicopter	
126.9	Brisbane Centre	
123.4	Sydney Centre	
119.7	Richmond Centre	
119.7	Brisbane Centre	45 – 90 NM NW Sydney BLW FL 200
120.550	Brisbane Centre	Taree/ Port Macquarie Areas
127.2	Brisbane Centre	Point Lookout
128.6	Brisbane Centre	Oceanic Control Area Routes East of Sydney
130.1	Brisbane Centre	Berrico (N Routes after WMD)
132.850	Brisbane Centre	OCA Routes Beyond 150NM SE of BN
134.2	Brisbane Centre	Point Lookout

125.7	Brisbane Centre	Mt McQuid, Williamtown Areas
121.1	Flightwatch	Sydney
121.6	Flightwatch	Pt.Macquarie, Williamtown, Scone
128.150	Flightwatch	Northern NSW Areas
127.2	Brisbane Centre	Point Lookout

Stud and other Useful Air Force Frequencies:

Stud 1	121.8	Willy Ground (SMC)
Stud 2	118.3	Willy Tower (TWR)
Stud 2	257.8	Willy Tower (TWR)
Stud 3	130.35	Willy Clearance Delivery (ACD)
Stud 4	135.7	Willy Approach (APP)
Stud 4	293.4	Willy Approach (APP)
Stud 5	133.3	Willy Centre (ACC)
Stud 5	261.4	Willy Centre (ACC)
Stud 6	125.7	Brisbane Centre (FIA)
Stud 7	121.1	Sydney Centre
Stud 8	121.1	Richmond Centre (Flightwatch)
Stud 9	135.5	Richmond Tower (TWR)
Stud 10	135.2	Range/Ops/Kill Common
Stud 11	133.6	Range/Ops/Kill Common
Stud 12	301.1	Squadron Ops – 3 Sqn
Stud 12	256.5	Squadron Ops – 2 Sqn
Stud 12	135.65	Squadron Ops – 76 Sqn
Stud 12	311.6	Squadron Ops – 77 Sqn
Stud 12	275.8	Squadron Ops – 75 Sqn
Stud 13		
Stud 14	234.9	Triad
Stud 15	266.0	Triad
Stud 16	296.2	Triad
Stud 17	270.8	Triad (RGCI 2)
Stud 18	282.7	Triad (RGCI 3)
Stud 19	259.4	Triad
Stud 20	253.3	Triad

Others :

336.0	Squadron Ops Freq. – 2OCU	Hunter
254.8	Squadron Ops Freq. – 2OCU	Hipshot
238.2	Squadron Ops Freq. – 2OCU	Hawkeye
382.0	Squadron Ops Freq. – 2OCU	Hoodoo
324.0	Squadron Ops Freq. – 3 Sqn	Cobra
238.8	Squadron Ops Freq. – 3 Sqn	Raider
375.5	Squadron Ops Freq. – 3 Sqn	Apache

288.6	Squadron Ops Freq. – 3 Sqn	Zulu
253.6	Squadron Ops Freq. – 77 Sqn	Shogun
380.0	Squadron Ops Freq. – 77 Sqn	Warlock
369.1	Squadron Ops Freq. – 77 Sqn	Viking
255.6	Squadron Ops Freq. – 77 Sqn	Pirate
134.6	Squadron Ops Freq. – 81 Wg	Dact
121.0	Squadron Ops Freq. – 81 Wg	Dact
126.3	Squadron Ops Freq. – 81 Wg	Dact
134.5	Squadron Ops Freq. – 81 Wg	Dact
322.2	Squadron Ops Freq. – OTS	
311.1	Squadron Ops Freq.	
254.0	Squadron Ops Freq.	
365.8	Squadron Ops Freq.	
316.4	Squadron Ops Freq.	Triad
320.8	Squadron Ops Freq.	
295.7	Squadron Ops Freq.	
287.2	Squadron Ops Freq	Triad
370.4	Squadron Ops Freq.	
351.1	Squadron Ops Freq.	Triad
353.3	Squadron Ops Freq.	
294.0	Squadron Ops Freq.	Sat 1 RGC
341.4	Squadron Ops Freq.	Sat 2
305.0	Squadron Ops Freq.	Sat 3
327.0	Squadron Ops Freq.	Sat 4
301.6	Squadron Ops Freq.	
367.9	Squadron Ops Freq.	Triad
338.7	Squadron Ops Freq.	
392.8	Squadron Ops Freq.	Squadron Maintenance – 3 Sqn
398.35	Squadron Ops Freq	Squadron Maintenance – 2 OCU
273.2	Squadron Ops Freq.	Squadron Maintenance – 76 Sqn
395.025	Squadron Ops Freq.	Squadron Maintenance – 77 Sqn
127.25	Squadron Ops Freq.	Squadron Maintenance – ATC. SMCV
392.8	Squadron Ops Freq.	Squadron Maintenance – 75 Sqn
260.0	Salt Ash Range – Primary	
287.5	Salt Ash Range – Secondary	

Calculating Antenna Length for Best Reception

Use the calculator at https://www.easycalculation.com/physics/electromagnetism/antenna-wavelength.php to calculate the correct antenna length for the frequency you wish to receive by performing the following:

- Select the desired *Wave Length* you want to calculate (i.e. **Quarter Wave Length**)
- Enter radio frequency into the *Enter Frequency* field (i.e. **1090** for ADS-B)
- Wavelength will automatically be shown in meters, feet & inches
  (i.e. **0.0688 meters or 68 mm**)

Australian airspace architecture

Class A: This high-level en-route controlled airspace is used predominately by commercial and passenger jets. Only IFR flights are permitted and they require an ATC clearance. All flights are provided with an air traffic control service and are positively separated from each other.

Class C: This is the controlled airspace surrounding major airports. Both IFR and VFR flights are permitted and must communicate with air traffic control. IFR aircraft are positively separated from both IFR and VFR aircraft. VFR aircraft are provided traffic information on other VFR aircraft.

Class D: This is the controlled airspace that surrounds general aviation and regional airports equipped with a control tower. All flights require ATC clearance.

Class E: This mid-level en-route controlled airspace is open to both IFR and VFR aircraft. IFR flights are required to communicate with ATC and must request ATC clearance.

Class G: This airspace is uncontrolled. Both IFR and VFR aircraft are permitted and neither require ATC clearance.

Note: At towered airports the class of airspace may change subject to the time of day.