

Wireless microphones — Spectrum for ‘plug and play’ users: Regional and Remote Western Australia

From 1 January 2015, wireless microphones must not be used in the 694–820 MHz frequency range. Visit www.wirelessmicrophones.gov.au for information about this change.

As a ‘plug and play’ user, this fact sheet provides general advice to help you decide which spectrum you can use for your wireless microphone from 1 January 2015. You are responsible for ensuring that you **comply with the regulations**.

Choose spectrum and your wireless microphone with care

There are many different types of wireless microphones available. When choosing a wireless microphone:

- > use spectrum in the frequency range that is permitted for wireless microphones
- > this spectrum may be shared with television and radio services and other users, so you must make sure that you don’t cause interference to these services and users
- > you should understand that you are not protected from interference received from these services and any changes to the regulations—so choose equipment with the widest possible frequency range.

Whether you have an existing device or are buying a new wireless microphone, you need to make sure that it meets Australian requirements and it’s suitable for use after 1 January 2015. You should contact your supplier for technical advice on spectrum and equipment before purchasing new equipment.

Nationally available spectrum

The following spectrum is now available nationally for wireless microphones, no matter where you are in Australia:

- > 520–526 MHz (see Note 3)
- > 1790–1800 MHz.

Frequency ranges 915–928 MHz, 2.400–2.4835 GHz and

5.725–5.875 GHz are also available for wireless microphone use, but they are shared with Wi-Fi and Bluetooth devices.

The benefit of using the nationally available spectrum is that you will not cause interference to television and radio services in your area.

Spectrum for ‘plug and play’ users in your area

The table over the page identifies spectrum that is considered available for wireless microphone users in your area. However, this spectrum is primarily used by television and radio services, so you must ensure you do not cause interference to these services and understand that you are not protected from interference received from these services.

Spectrum in the 520–694 MHz range can be used indoors on the condition that no interference is caused to television and radio services. For more information on indoor use, contact your supplier for advice.

The table identifies spectrum options suitable for ‘plug and play’ users whose requirements can typically be accommodated within one television channel. Depending on the quality of your equipment, one channel can support between six and eight wireless microphones. If you have greater requirements than this, contact your supplier for technical advice about meeting your needs.

Notes:

1. The channels and frequencies provided in the table will be available from 1 January 2015. However, some channels and frequencies may be available before then. For more information, use the ACMA’s online **channel finder**.
2. Wireless microphones operate on a shared-spectrum basis with radio and television services. These arrangements can change over time. Wireless microphones users are not protected from such changes and are responsible for ensuring they comply with current regulations.
3. The frequency range 520–526 MHz is unused by television services and is available Australia wide. However, the use of this spectrum may change as result of future replanning.

Available spectrum for wireless microphone use from 1 January 2015

Town	Band	UHF					
	TV channel	VHF	27	28, 29, 30, 31, 32, 33	34, 35, 36, 37, 38, 39	40, 41, 42, 43, 44, 45	46, 47, 48, 49, 50, 51
	Frequency (MHz)	6, 7, 8, 10, 11, 12	174–195 209–230	520–526 (see Note 3)	526–568	568–610	610–652
Albany	NO	YES	YES	YES	YES	NO	YES
Allanson	YES	YES	YES	YES	NO	YES	YES
Augusta	YES	YES	YES	YES	YES	YES	NO
Balgo	YES	YES	YES	YES	YES	YES	YES
Balingup	YES	YES	YES	YES	NO	YES	YES
Bardi (One Arm Point)	YES	YES	YES	YES	YES	YES	YES
Bayulu	YES	YES	YES	YES	YES	NO	YES
Beagle Bay	YES	YES	YES	YES	YES	YES	YES
Beverley	NO	YES	YES	YES	YES	NO	YES
Bidyadanga	YES	YES	YES	YES	YES	YES	YES
Binningup	NO	YES	YES	YES	NO	NO	YES
Boddington-Ranford	NO	YES	YES	YES	NO	YES	NO
Borden	NO	YES	YES	YES	YES	YES	YES
Boyanup	YES	YES	YES	YES	NO	YES	YES
Boyup Brook	YES	YES	YES	YES	NO	YES	YES
Bremer Bay	YES	YES	YES	YES	YES	YES	YES
Bridgetown	YES	YES	YES	YES	NO	NO	YES
Brookton	YES	YES	YES	YES	YES	NO	YES
Broome	NO	YES	YES	YES	YES	YES	YES
Broomehill Village	NO	YES	NO	YES	YES	NO	YES
Bruce Rock	YES	YES	YES	YES	YES	NO	NO
Brunswick Junction	YES	YES	YES	YES	NO	NO	YES
Bunbury	YES	YES	YES	YES	NO	YES	YES
Burekup	YES	YES	YES	YES	NO	NO	YES
Busselton	YES	YES	YES	YES	NO	YES	YES
Cape Burney	YES	YES	YES	YES	YES	NO	YES
Capel	YES	YES	YES	YES	NO	YES	YES
Carnamah	NO	YES	NO	YES	YES	YES	NO
Carnarvon	NO	YES	YES	YES	YES	YES	YES
Cervantes	YES	YES	YES	YES	NO	YES	NO
Collie	YES	YES	YES	YES	NO	YES	YES
Cookernup	NO	YES	YES	YES	NO	NO	YES
Coolgardie	NO	YES	YES	YES	YES	NO	YES
Coral Bay	YES	YES	YES	YES	YES	YES	YES

Available spectrum for wireless microphone use from 1 January 2015

Town	Band	UHF					
	TV channel	VHF	27	28, 29, 30, 31, 32, 33	34, 35, 36, 37, 38, 39	40, 41, 42, 43, 44, 45	46, 47, 48, 49, 50, 51
	Frequency (MHz)	174–195 209–230	520–526 (see Note 3)	526–568	568–610	610–652	652–694
Corrigin	YES	YES	YES	YES	YES	NO	YES
Cowaramup	YES	YES	YES	YES	NO	NO	YES
Cranbrook	NO	YES	YES	YES	YES	YES	YES
Cuballing	YES	YES	NO	YES	YES	NO	NO
Cue	NO	YES	YES	YES	YES	YES	YES
Cunderdin	NO	YES	YES	YES	YES	NO	YES
Dalwallinu	YES	YES	YES	NO	YES	NO	NO
Dampier	YES	YES	NO	YES	NO	NO	YES
Dardanup	YES	YES	YES	NO	NO	NO	YES
Darkan	YES	YES	NO	NO	NO	YES	YES
Denham	NO	YES	YES	YES	YES	YES	YES
Denmark	NO	YES	YES	YES	YES	NO	YES
Derby	NO	YES	YES	YES	YES	YES	YES
Djarindjin-Lombadina	YES	YES	YES	YES	YES	YES	YES
Dongara	YES	YES	YES	YES	YES	NO	YES
Donnybrook	YES	YES	YES	NO	YES	YES	YES
Dowerin	NO	YES	YES	YES	YES	NO	YES
Drummond Cove	YES	YES	YES	YES	YES	NO	YES
Dumbleyung	YES	YES	NO	YES	YES	YES	YES
Dunsborough	YES	YES	YES	NO	YES	YES	YES
Dwellingup	NO	YES	NO	NO	NO	NO	YES
Esperance	NO	YES	YES	YES	YES	YES	YES
Exmouth	NO	YES	YES	YES	YES	YES	YES
Fitzroy Crossing	YES	YES	YES	YES	YES	NO	YES
Frenchman Bay	NO	YES	YES	YES	YES	YES	YES
Geraldton	YES	YES	YES	YES	YES	NO	YES
Gnarabup-Prevelly	YES	YES	YES	NO	NO	NO	YES
Gnowangerup	NO	YES	YES	YES	YES	YES	YES
Goomalling	NO	YES	YES	YES	YES	NO	YES
Green Head	NO	YES	YES	YES	YES	YES	YES
Greenbushes	YES	YES	YES	NO	NO	NO	YES
Halls Creek	NO	YES	YES	YES	YES	YES	YES
Harvey	YES	YES	YES	YES	NO	NO	YES

Available spectrum for wireless microphone use from 1 January 2015

Town	Band	UHF					
	TV channel	VHF	27	28, 29, 30, 31, 32, 33	34, 35, 36, 37, 38, 39	40, 41, 42, 43, 44, 45	46, 47, 48, 49, 50, 51
	Frequency (MHz)	174–195 209–230	520–526 (see Note 3)	526–568	568–610	610–652	652–694
Hopetoun	YES	YES	YES	YES	YES	NO	YES
Jerramungup	YES	YES	YES	YES	YES	YES	YES
Jigalong	YES	YES	YES	YES	YES	YES	YES
Jurien	YES	YES	YES	YES	NO	YES	YES
Kalbarri	NO	YES	YES	YES	YES	YES	YES
Kalgoorlie	NO	YES	YES	YES	YES	YES	YES
Kulumburu	YES	YES	YES	YES	YES	YES	YES
Kambalda	NO	YES	YES	YES	YES	NO	YES
Karratha	NO	YES	YES	YES	YES	NO	YES
Katanning	NO	YES	NO	YES	YES	NO	YES
Kellerberrin	YES	YES	YES	YES	YES	NO	YES
Kendenup	NO	YES	YES	YES	YES	YES	YES
Kiwirrkurra	YES	YES	YES	YES	YES	YES	YES
Kojonup	NO	YES	NO	NO	NO	NO	NO
Kondinin	YES	YES	YES	YES	YES	NO	YES
Koorda	YES	YES	YES	YES	YES	YES	NO
Kulin	YES	YES	YES	YES	YES	NO	YES
Kununurra	NO	YES	YES	YES	YES	NO	YES
Lake Grace	YES	YES	NO	NO	YES	YES	YES
Laverton	NO	YES	YES	YES	YES	YES	NO
Leeman	NO	YES	YES	YES	YES	YES	YES
Leinster	NO	YES	YES	YES	YES	YES	YES
Leonora	NO	YES	YES	YES	YES	NO	YES
Little Grove	NO	YES	YES	YES	YES	NO	YES
Looma	YES	YES	YES	YES	YES	YES	YES
Manjimup	YES	YES	YES	NO	YES	YES	NO
Marble Bar	NO	YES	YES	YES	YES	YES	YES
Margaret River	YES	YES	YES	NO	NO	YES	YES
Marvel Loch	NO	YES	NO	YES	YES	YES	YES
Meekatharra	NO	YES	YES	YES	YES	YES	YES
Menzies	NO	YES	YES	YES	YES	NO	YES
Merredin	YES	YES	YES	YES	YES	NO	NO
Mindibungu	YES	YES	YES	YES	YES	YES	YES
Mingenew	NO	YES	NO	YES	YES	YES	NO

Available spectrum for wireless microphone use from 1 January 2015

Town	Band	UHF					
	TV channel	VHF	27	28, 29, 30, 31, 32, 33	34, 35, 36, 37, 38, 39	40, 41, 42, 43, 44, 45	46, 47, 48, 49, 50, 51
	Frequency (MHz)	6, 7, 8, 10, 11, 12	174–195 209–230	520–526 (see Note 3)	526–568	568–610	610–652
Moora	YES	YES	YES	NO	YES	YES	
Morawa	NO	YES	NO	YES	YES	YES	
Mount Barker	NO	YES	YES	YES	NO	YES	
Mount Magnet	NO	YES	YES	YES	YES	YES	
Mukinbudin	YES	YES	YES	YES	YES	YES	
Mullewa	YES	YES	YES	YES	NO	NO	
Nannup	YES	YES	NO	NO	YES	YES	
Narembeen	YES	YES	YES	YES	YES	NO	
Narrogin	YES	YES	NO	YES	NO	NO	
Newman	NO	YES	YES	YES	YES	YES	
Norseman	NO	YES	YES	YES	YES	NO	
Northam	NO	YES	YES	YES	NO	NO	
Northampton	YES	YES	YES	YES	NO	NO	
Nullagine	YES	YES	YES	YES	YES	YES	
Ocean Beach	NO	YES	YES	YES	NO	YES	
Onslow	NO	YES	YES	YES	NO	NO	
Pannawonica	NO	YES	YES	YES	YES	YES	
Paraburdoo	NO	YES	YES	YES	YES	YES	
Peaceful Bay	NO	YES	YES	YES	YES	YES	
Pemberton	YES	YES	NO	YES	YES	YES	
Pingelly	NO	YES	NO	YES	NO	NO	
Pinjarra	NO	YES	NO	NO	NO	YES	
Point Samson	NO	YES	YES	YES	YES	YES	
Port Dennison	YES	YES	YES	YES	NO	YES	
Port Hedland	NO	YES	YES	YES	YES	YES	
Quairading	YES	YES	YES	YES	NO	YES	
Ravensthorpe	NO	YES	YES	YES	YES	YES	
Roebourne	NO	YES	YES	YES	YES	YES	
Southern Cross	NO	YES	NO	YES	YES	YES	
Tambellup	NO	YES	YES	YES	YES	YES	
Tammin	YES	YES	YES	YES	NO	YES	
Three Springs	NO	YES	NO	YES	YES	YES	
Tjuntjuntjara	YES	YES	YES	YES	YES	YES	
Tom Price	NO	YES	YES	YES	YES	YES	

Available spectrum for wireless microphone use from 1 January 2015

Town	Band	VHF	UHF				
	TV channel	6, 7, 8, 10, 11, 12	27	28, 29, 30, 31, 32, 33	34, 35, 36, 37, 38, 39	40, 41, 42, 43, 44, 45	46, 47, 48, 49, 50, 51
	Frequency (MHz)	174–195 209–230	520–526 (see Note 3)	526–568	568–610	610–652	652–694
Wagin		YES	YES	NO	YES	YES	YES
Walpole		NO	YES	YES	YES	YES	YES
Warburton		YES	YES	YES	YES	NO	NO
Warmun		YES	YES	YES	YES	YES	YES
Warooka		NO	YES	NO	NO	NO	YES
Wickepin		YES	YES	NO	YES	NO	NO
Wickham		NO	YES	YES	YES	YES	YES
Williams		YES	YES	NO	NO	YES	NO
Wiluna		YES	YES	YES	YES	YES	YES
Wongan Hills		NO	YES	YES	NO	YES	NO
Wyalkatchem		YES	YES	YES	YES	NO	YES
Wyndham		NO	YES	YES	YES	YES	YES
Yarloop		NO	YES	YES	NO	NO	YES
York		NO	YES	YES	YES	NO	YES
Yungngora		YES	YES	YES	YES	YES	YES

Legend	Frequencies available	YES	Available for wireless microphone use.
		NO	Not available for wireless microphone use.

More information

- > Contact your supplier about your specific device to find out the most suitable frequency range for your location.
- > Visit www.wirelessmicrophones.gov.au or email us at fregplan@acma.gov.au.

Last updated: July 2014.