

Canberra TV Stations

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There are five TV transmitting organisations in Canberra. Each organisation has a transmitter on Telstra Tower Black Mountain, for a total of five transmitters. Likewise there are five TV repeaters each, on both Mount Taylor (15 Watts, serves Weston Creek and Woden areas) and Tuggeranong Hill (160 Watts). Each transmitter/repeater carries multiple digital TV/radio channels, as shown below. Note that for each channel number, the *first digit* tells you which organisation. For example, all channel numbers beginning with “3” come from SBS.

ABC – Australian Broadcasting Corporation

| Number | Name | Resolution |
|--------|-------------|------------|
| 2 | ABC1 | 576i |
| 21 | ABC1 | 576i |
| 22 | ABC2 / ABC4 | 576i |
| 23 | ABC3 | 576i |
| 24 | ABC News 24 | 720p |

SBS – Special Broadcasting Service

| Number | Name | Resolution |
|--------|---------|------------|
| 3 | SBS ONE | 576i |
| 30 | SBS HD | 720p |
| 32 | SBS TWO | 576i |
| 33 | SBS 3 | 576i |
| 34 | SBS 4 | 576i |

Southern Cross Ten

| Number | Name | Resolution |
|--------|---------------|------------|
| 5 | SC10 Canberra | 576i |
| 50 | ONE Canberra | 1080i |
| 55 | ELEVEN | 576i |

Prime Seven

| Number | Name | Resolution |
|--------|-----------------|------------|
| 6 | PRIME7 Canberra | 576i |
| 60 | PRIME7 Canberra | 576i |
| 61 | PRIME7 Canberra | 576i |
| 62 | 7TWO Canberra | 576i |
| 63 | 7mate Canberra | 1080i |
| 64 | Television 4 | 576i |

WIN Nine

| Number | Name | Resolution |
|--------|--------------|------------|
| 8 | WIN Canberra | 576i |
| 80 | GEM Canberra | 1080i |
| 88 | GO! Canberra | 576i |

Digital Radio

| Number | Name | Notes |
|--------|---------------|---|
| 38 | SBS Radio 1 | |
| 39 | SBS Radio 2 | |
| 200 | ABC Dig Music | Info at: abcdigmusic.net.au |
| 201 | ABC Jazz | Info at: abcjazz.net.au |

Obsolete Analog TV Frequencies

The transmitters/repeaters using these frequencies are due to be turned off on 5 June 2012 [2]. The frequency given is the video carrier frequency [1].

| Name | Black Mountain | Mt Taylor | Tuggeranong |
|-----------------|-----------------|-----------------|-----------------|
| ABC1 | VHF9 196.25MHz | UHF55 716.25MHz | UHF60 751.25MHz |
| SBS ONE | UHF28 527.25MHz | UHF58 737.25MHz | UHF54 709.25MHz |
| SC10 Canberra | VHF7 182.25MHz | UHF67 800.25MHz | UHF63 772.25MHz |
| PRIME7 Canberra | UHF34 569.25MHz | UHF64 779.25MHz | UHF69 814.25MHz |
| WIN Canberra | UHF31 548.25MHz | UHF61 758.25MHz | UHF66 793.25MHz |

Digital TV Frequencies

| Organisation | Black Mountain | Mt Taylor & Tuggeranong |
|--------------------|-----------------|-------------------------|
| ABC | VHF9A 205.50MHz | UHF59 746.50MHz |
| SBS | UHF30 543.50MHz | UHF57 732.50MHz |
| Southern Cross Ten | VHF6 177.50MHz | UHF62 767.50MHz |
| Prime Seven | VHF12 226.50MHz | UHF68 809.50MHz |
| WIN Nine | VHF11 219.50MHz | UHF65 788.50MHz |

Each digital transmitter/repeater [3] occupies 7MHz of bandwidth, the same as one old analog TV channel. The frequency given is the centre of the occupied band [1]. Notice that the Mt Taylor and Tuggeranong repeaters share frequencies. The ability to do this, without causing unacceptable interference, is one of the benefits of the DVB-T digital TV system.

References

1. 2011 Australian TV Channel / Frequency Chart <http://vk3khh.gak.net.au/atv/chnlchrt.html>
2. Digital TV Switchover Australia <http://www.digitalready.gov.au>
3. Australian Communications and Media Authority <http://www.acma.gov.au>

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