

## Digital Television Technical Details

The following information details the technical standards for Digital TV. Further information relating to these and their use can be found on Google. [http://www.acma.gov.au/WEB/STANDARD/pc=PC\\_90056](http://www.acma.gov.au/WEB/STANDARD/pc=PC_90056)

The digital channels are contained in the VHF Band 3 and UHF Band 4 & 5, therefore please check your area as to what frequencies are in use.

### In Brisbane they are as follows:

Channel 12 – ABC-TV 2, 21, 22, 23, and 24-HD

Channel 6- Seven Network-7, 70, 71, 72, 7mate-HD and 74

Channel 8 – Nine Network-9, 90-HD, 94, 99

Channel 11 – Ten Network-1HD, 10, 11, 12, 14

Channel 39 – Bris 31-44

Channel 36 – SBS Network-3, 30HD, 32, 33, 34

Digital ATV – VK4RKC-446.5MHz (Manual frequency setting only)

### Other settings are as follows including DATV:

FFT	2k, 8k
Modulation	QPSK, 16QAM, 64QAM
Guard Band	¼, 1/8, 1/16, 1/32
FEC	½, 2/3, ¾, 5/6, 7/8

Usable bit rate will depend on the above setting used, those in **Red** are used for national/commercial channels. This gives a overall bit rate of **23.053Mbit/s** allowing for 1xHD and 3xSD channels.

HD is 720p (ABC and SBS) or 1081i



### Note 8: Amateur Television (Latest information from WIA) October 2011

AM transmissions must be VSB only. Video carrier frequency 444.250 MHz For digital ATV, the recommended standard is DVB-T using a 7 MHz bandwidth centred on 446.500 MHz

Further information regarding settings can be found here <http://www.w6ze.org/DATV/TechTalk86-DATV.pdf>