

Home Network Sciences

UHF Channel and Frequency Guide

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UHF Channels and Frequencies

The UK uses UHF for terrestrial television transmissions, with both PAL-I analogue broadcasts and DVB-T digital broadcasts sharing the band. The following table is a handy channel/frequency conversion table showing the E channel number, PAL-I vision and sound carrier frequencies, and the centre frequency for digital tuning.

Explainer

The frequency plan for the UK involves each channel having an 8MHz bandwidth - the space in the spectrum that each channel is allotted. The PAL-I standard specifies a video bandwidth of 5.0 MHz and an audio carrier at 6 MHz. The DVB-T transmissions must fall within this channel plan, resulting in each digital channel also having a bandwidth of 8 MHz. Unlike PAL-I, the digital channel (carrying a multiplexed signal) utilises the entire bandwidth available to it simultaneously, transmitting 2048 carriers (in "2k mode"). For tuning purposes, a centre frequency is used.

Channel Number	Channel Frequency		
Band IV Channel	PAL-I Vision (MHz)	PAL-I Sound (MHz)	Centre (MHz)
21	471.25	477.25	474
22	479.25	485.25	482
23	487.25	493.25	490
24	495.25	501.25	498
25	503.25	509.25	506
26	511.25	517.25	514
27	519.25	525.25	522
28	527.25	533.25	530
29	535.25	541.25	538
30	543.25	549.25	546
31	551.25	557.25	554
32	559.25	565.25	562
33	567.25	573.25	570
34	575.25	581.25	578
35	583.25	589.25	586
36	591.25	597.25	594
37	599.25	605.25	602
38	607.25	613.25	610

Channel Number	Channel Frequency		
Band V Channel	PAL-I Vision (MHz)	PAL-I Sound (MHz)	Centre (MHz)
39	615.25	621.25	618
40	623.25	629.25	626
41	631.25	637.25	634
42	639.25	645.25	642
43	647.25	653.25	650
44	655.25	661.25	658
45	663.25	669.25	666
46	671.25	677.25	674
47	679.25	685.25	682
48	687.25	693.25	690
49	695.25	701.25	698
50	703.25	709.25	706
51	711.25	717.25	714
52	719.25	725.25	722
53	727.25	733.25	730
54	735.25	741.25	738
55	743.25	749.25	746
56	751.25	757.25	754
57	759.25	765.25	762
58	767.25	773.25	770
59	775.25	781.25	778
60	783.25	789.25	786
61	791.25	797.25	794
62	799.25	805.25	802
63	807.25	813.25	810
64	815.25	821.25	818
65	823.25	829.25	826
66	831.25	837.25	834
67	839.25	845.25	842
68	847.25	853.25	850
69	855.25	861.25	858