

Application Note 60 TMC22x5y input data ranges

There is no fixed input data range to the TMC22x5y family of digital decoders, as the programmable output matrix allows up to 6dB of gain on the luminance and color differ-

ence signals. The following data ranges for 100% composite and YC color bar inputs is for reference only.

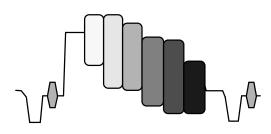


Figure 1: Composite video waveform

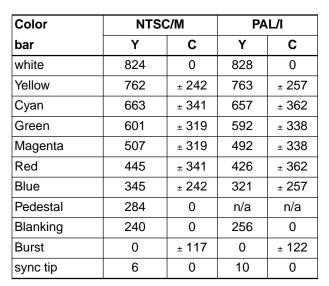


Table 1: 10 bit composite input data ranges

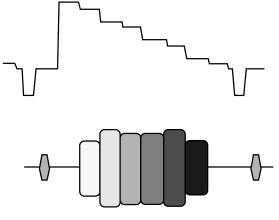


Figure 2: YC video waveforms

Color	NTSC/M		PAL/I	
bar	Υ	С	Υ	С
white	1008	0	1008	0
Yellow	933	± 347	928	± 355
Cyan	811	± 488	799	± 499
Green	735	± 456	719	± 467
Magenta	620	± 456	597	± 467
Red	545	± 488	517	± 499
Blue	433	± 347	388	± 355
Pedestal	348	0	n/a	n/a
Blanking	294	0	308	0
Burst	0	± 167	0	± 170
sync tip	8	0	8	0

Table 2: 10 bit YC input data ranges

AN60 APPLICATION NOTE

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