

How to calculate Pixel Clock Frequency for KP-D50:

Number of effective CCD pixels N_{eff} *1:	752
No. of optical Black pixels N_{opt} *1:	43
No. of dummy pixels N_{dmy} *1:	22
Clock cycles during blanking N_{blk} *2:	91
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Number of Total pixels N_{tot} :	908
Pixel clock freq. fp	
Duration of horizontal line Th :	64 μ s
Duration of one line of active Video Th_{akt} :	52 μ s

Calculate:

$$fp = \frac{N_{tot}}{Th} = 14.187.500s^{-1}$$

With this the number of actual pixel per line N_{act} used for the final video output results to:

$$N_{act} = N_{tot} \frac{T_{act}}{Th} = 737,75 \quad \text{Pixels}$$

*1 Data from CCD sensor data sheet

*2 Data specified by timing generator data sheet