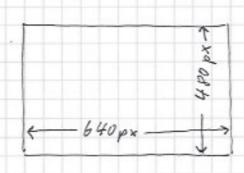
Thoughts about the oscilloscope display

The display:



Horitoutal resolution:

5 possible settings >

- 500 pt Ms

- 1 tos us

- 2 ms

- 5 ms

- 10 ws

There are & horizoutal units =>

500 ms · 8 = 4 ms

1 ms . 8 = 8 ms

2 ms . 8 = 16 ms

5 ms . 8 = 40 ms

10 ms . 8 = 80 ms

Frequency & sampling rate

let's assume that the Concrt frequency we want to measure be 50 Ht and the highest be 1000 hz

6 50 Ht = 20 ms 6 1000 Ht = 1 ms

Let's also assume that we sample at 100 kHz. If we do not use DMA, higher sampling frequencies are not realistic. (100 kHz = 100 5/ms)

6 50 Ht or 20 ms → 2000 samples 6 1000 Ht or 1 ms → 100 samples

