



TinyVGA.com: VGA Microcontroller projects

SVGA Signal 800 x 600 @ 60 Hz timing

General timing

Screen refresh rate	60 Hz
Vertical refresh	37.878787878788 kHz
Pixel freq.	40.0 MHz

Horizontal timing (line)

Polarity of horizontal sync pulse is positive.

Scanline part	Pixels	Time [μ s]
Visible area	800	20
Front porch	40	1
Sync pulse	128	3.2
Back porch	88	2.2
Whole line	1056	26.4

Vertical timing (frame)

Polarity of vertical sync pulse is positive.

Frame part	Lines	Time [ms]
Visible area	600	15.84
Front porch	1	0.0264
Sync pulse	4	0.1056
Back porch	23	0.6072
Whole frame	628	16.5792