

9-2-4 Frame rate calculation

(1) Standard scan

V_n = Number of vertical line (at the center area of the image sensor)

$Exp1$ = 3.021 ms to 10 s (input in units of seconds)

$1H$ = 32.4812×10^{-6}

Operation modes	Calculation formula	Horizontal	Vertical	Frame rate (fps)
Free running mode	$1/(V_n/2 \times 1H)$	2048	2048	30
			1024	60
			512	120
			256	240
			128	481
			64	962
			8	7696
External trigger mode (Edge trigger / Level trigger)	$1/(V_n/2 \times 1H + Exp1 + 10 \times 1H)$	2048	2048	27
			1024	50
			512	85
			256	133
			128	185
			64	228
			8	287
External trigger mode (Synchronous readout trigger)	$1/(V_n/2 \times 1H + 18 \times 1H)$	2048	2048	29
			1024	58
			512	112
			256	210
			128	375
			64	615
			8	1399

Note

- The calculation formula and the frame rate value of Start trigger mode (External trigger mode) are same as Free running mode. About this mode, refer to 9-2-6-2-4 "Start trigger mode".