Supplement + max lenght $\leq$ FOV

frame rate $\geq \frac{\text{speed}}{\text{supplement}}$

$\frac{FOV}{WD} = \frac{\text{sensor width}}{\text{focal length}} = tg\,\alpha$

resolution $(mm/px) = \frac{\text{length}}{n^\circ \text{ pixel}} = \frac{\text{speed}}{\text{frequency}} = \frac{1}{\text{resolution}}$

$FOV\_x = \text{resolution} \cdot n^\circ \text{ pixel}$

sensor width = n° pixel $\cdot$ pixel size

shutter time $= \frac{\text{speed}}{\text{resolution} \cdot \text{blur}} = \frac{\text{blur}}{\text{frequency}}$

bit rate = n° pixel $\cdot$ frequency

$\frac{max\_x\ (y)}{n^\circ \text{ pixel}\ (y)} \cdot n^\circ \text{ pixel}\_y\ (x) = \text{length} > max\_y\ (x)$

smallest size defect = correct processing $\cdot$ resolution