



$$\tan(\text{FOV}) = \frac{L}{h}$$

$$L = h \tan(\text{FOV})$$

$$\text{Pusat citra} = \left(\frac{W}{2}, \frac{H}{2} \right)$$

$$\Delta x = x - \frac{W}{2}$$

$$\Delta y = \frac{H}{2} - y$$

Skala

$$S_x = \frac{L}{W}, \quad S_y = \frac{L}{H}$$

koordinat

$$X = \Delta x \cdot S_x$$

$$Y = \Delta y \cdot S_y$$

$$\begin{aligned} 1^\circ \text{ lintang} &= 111320 \text{ meter} \\ 1^\circ \text{ bayur} &= 111320 \cos(\text{lat}_0) \text{ meter} \end{aligned}$$

$$\Delta \text{lat} = \frac{Y}{111320}$$

$$\Delta \text{lon} = \frac{X}{111320 \cos(\text{lat}_0)}$$

$$\text{lat} = \text{lat}_0 + \Delta \text{lat}$$

$$\text{lon} = \text{lon}_0 + \Delta \text{lon}$$