

1 Picuture & Schema



Figure 1: Picture

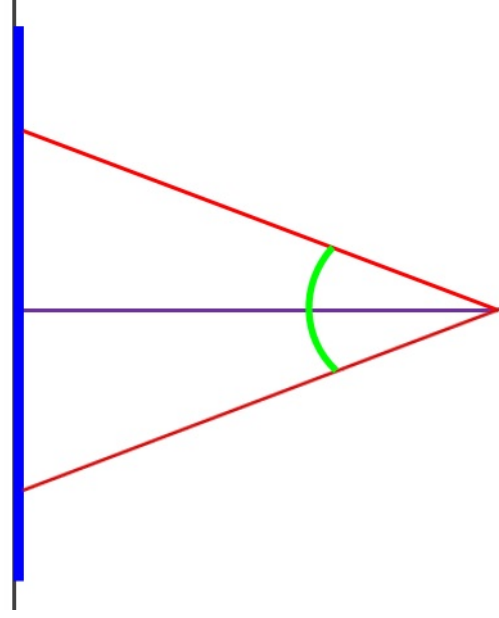


Figure 2: Schema

2 Calculate Aspect Ration & Field of View

Ruler measurement top $R_{Top} = 212mm$. Ruler measurement bottom $R_{Bot} = 26mm$. This yields an "in-scene" height h of $212mm - 26mm = 186mm$. Fixed distance from the ruler to the camera $d = 190mm$. We find that the vertical view angle, i.e. the field of view is $\approx \alpha = 45^\circ$.

Having a picture pixel size of 2448×3264 , we calculate the aspect ratio $R = \frac{3}{4} = 0.75$.