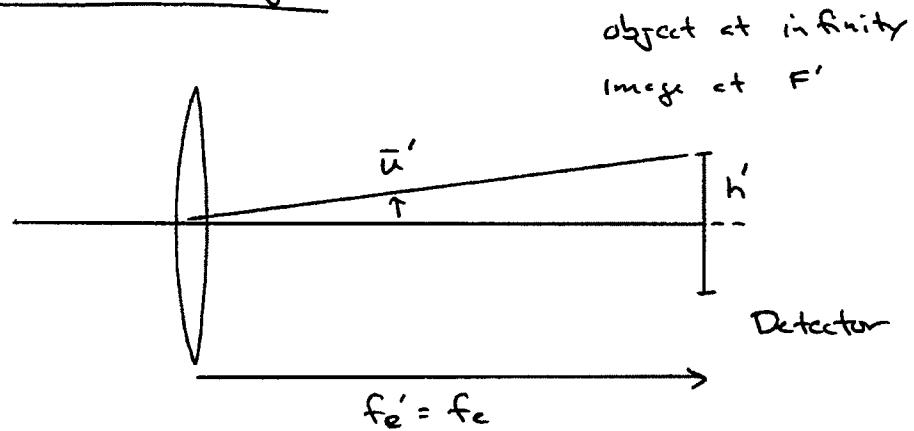


FOV and Focal Length



$$\bar{u}' = h'/f_e$$

$$h' = D_{\text{det}}/2 = 5 \text{ mm}$$

$$f_e = \text{various}$$

$$\text{HFOV} = \tan^{-1}(\bar{u}')$$

$$\text{FOV} = 2 \cdot \text{HFOV}$$

f_e	\bar{u}'	FOV (degrees)
10 mm	0.5	53.1°
25	0.2	22.6°
50	0.1	11.4°
100	0.05	5.7°
200	0.025	2.9°
1000	0.005	0.57°