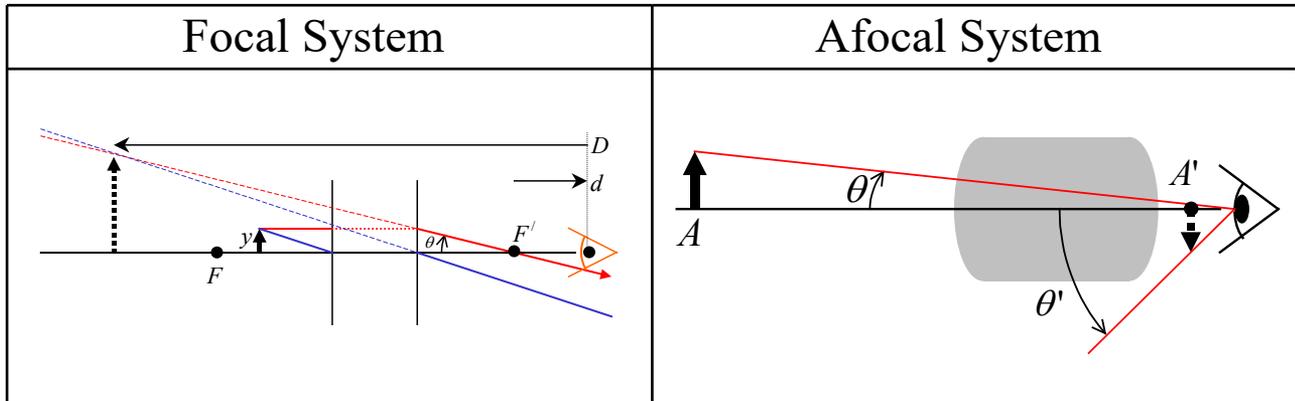


# Magnifying Power



Finite Object Distance	Object at Infinity
<p>Intrinsic Magnifying Power</p> $P_i = -\frac{1}{f'} = 4G_{ic}$ <p>Magnifying Power</p> $P = \frac{\theta'}{y} = P_i \left(1 + \frac{d}{D}\right)$	<p>Intrinsic Magnifying Power</p> $G_i = \frac{f'_1}{f'_2}$ <p>Magnifying Power</p> $G = \frac{\theta'}{\theta} = \begin{cases} f'_1 / f'_2 & \text{Afocal System} \\ G_i(1 + d/D) & \text{Focal System} \end{cases}$
<p>Intrinsic Commercial Magnifying Power</p> $G_{ic} = -\frac{1}{4f'} = \frac{P_i}{4}$ <p>Magnifying Power</p> $G = \frac{\theta'}{\theta} = 4G_{ic} \left(1 + \frac{d}{D}\right) L_m$ <p>Convention</p> $\theta = \frac{y}{L_m} \quad L_m = 250 \text{ mm}$	