

SX Keplerian Telescope

$$f_{obj} = 200 \text{ mm}$$

$$a) \quad MP = -S = -\frac{f_{obj}}{f_{eye}}$$

$$f_{eye} = 40 \text{ mm}$$

$$L = f_{obj} + f_{eye}$$

$$L = 240 \text{ mm}$$

b) Eye relief - image of the objective/stop by the eye lens

$$z = -L = -240 \text{ mm}$$

$$\frac{1}{z'} = \frac{1}{z} + \frac{1}{f_{eye}}$$

$$z' = \text{eye relief} = 48 \text{ mm}$$