



無縫重新對焦

Seamless Focal-Stack Refocusing



Focal-Stack Refocusing



Focal-Stack Refocusing

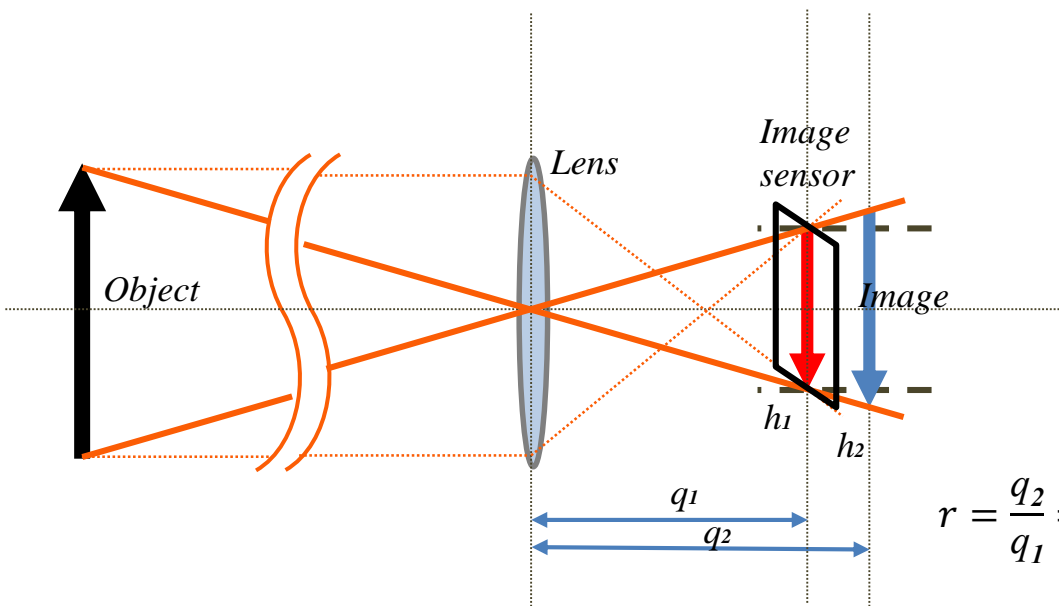




4:42

(69)

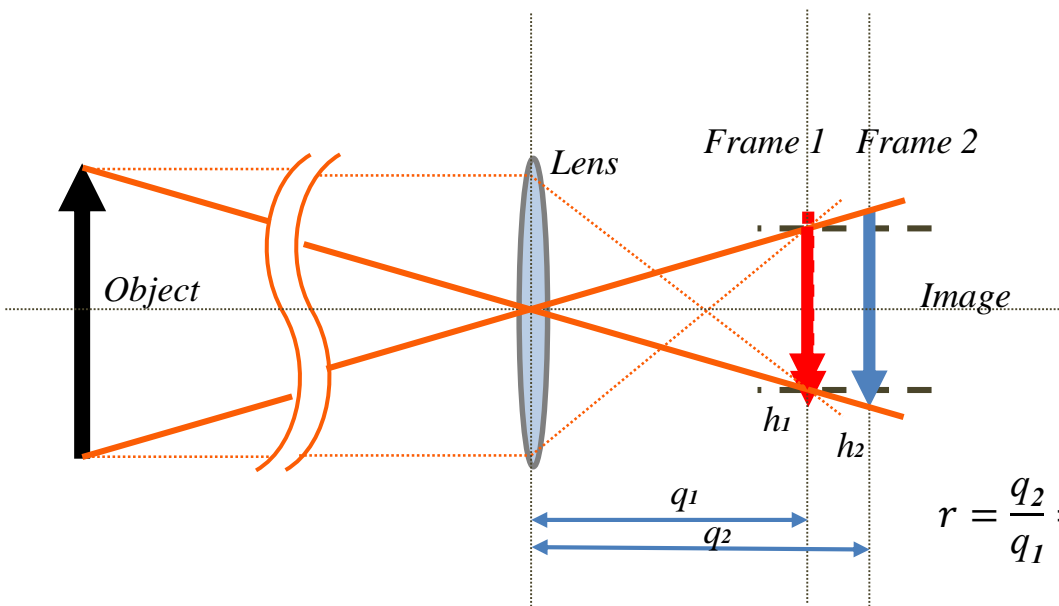




Optical path

$$r = \frac{q_2}{q_1} = \frac{h_2}{h_1}$$





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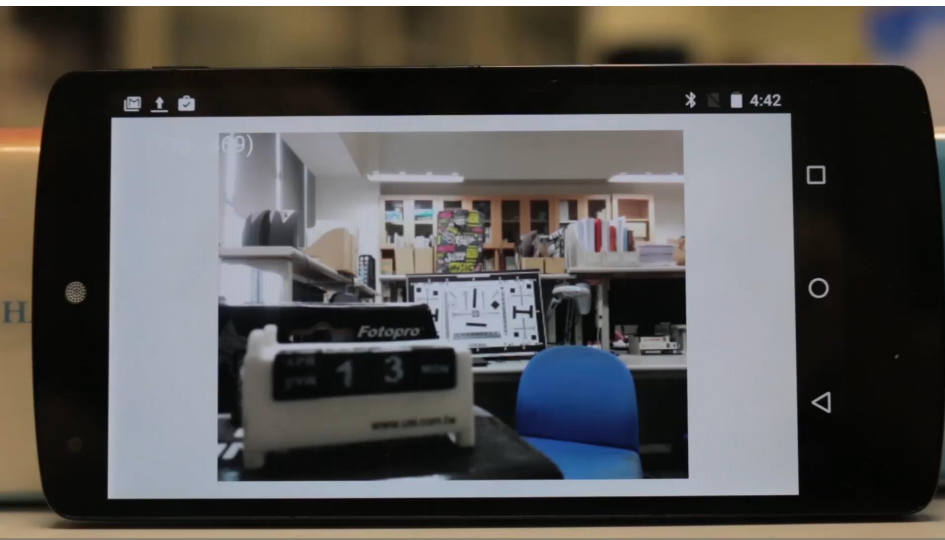


Rectification Method

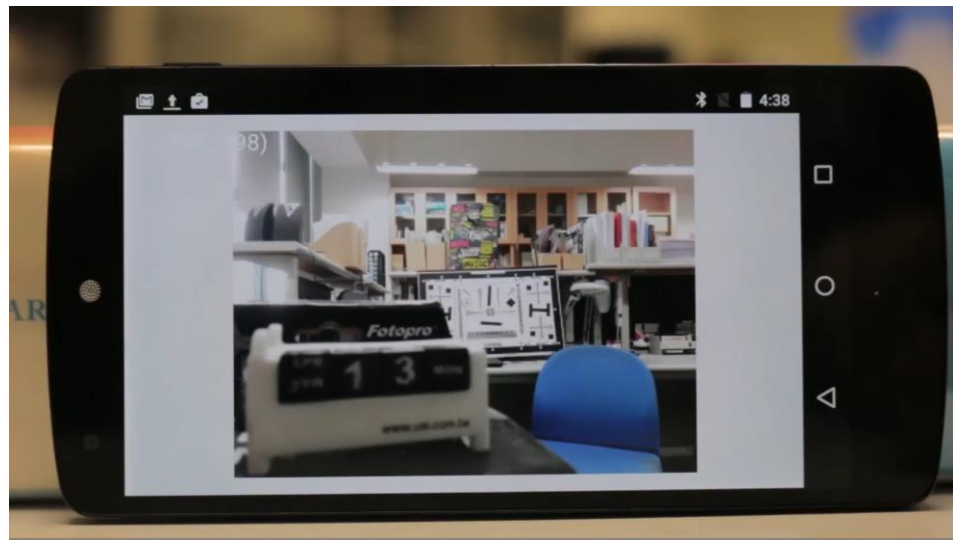
$$F(I_i, r) = \textit{Crop}(\textit{Resize}(I_i, r))$$

$$r = \arg \min \|F(I_i, r) - I_j\|_2$$

Result



Before



After

Conclusion

- Improves the focal-stack refocusing technique
- Seamless refocusing without additional device
- Works for smart phone without additional cost