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Edge-Lit Holograms

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$$E_o = A_o \exp[i(-kny \cdot + \phi - cot)] \quad (8)$$

$$E_{\bar{o}} = A_o \exp[i(kn(x \cos(\theta_o) + y \sin(\theta_o)) + \phi - \omega t)] \quad (10)$$

$$E_R = A_R \exp[i(kn(x \cos(180 - \theta_o) + y \sin(180 - \theta_o)) + \phi - \omega t)] \quad (11)$$

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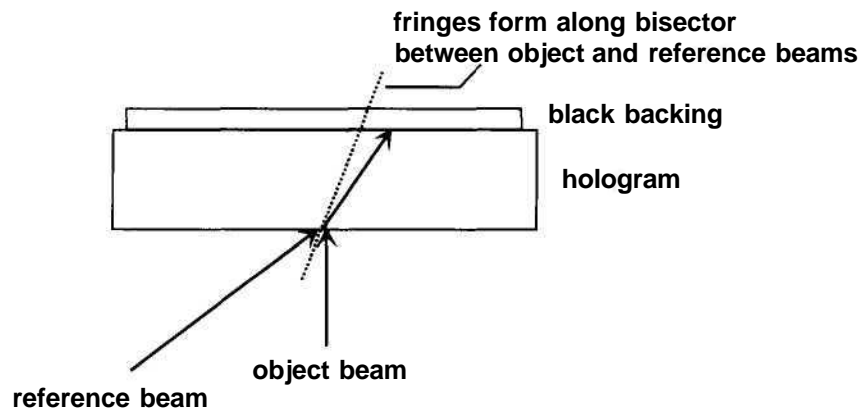


FIGURE 3.3. Diagram for Snell's law in transmission hologram: determining fringe slant-angle limitations.

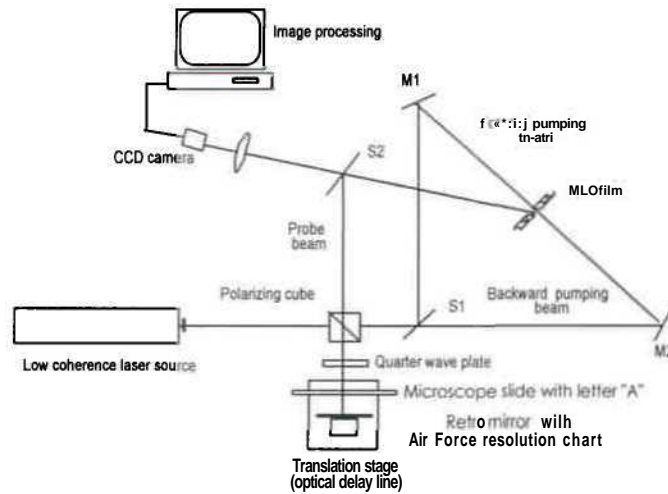


FIGURE 5.6. Experimental setup for 2D depth-resolved imaging with two spatially separated objects.

The possible applications are entertainment, advertisement, medical diagnostics, image representations for surgical procedures, and education.⁸¹