

203-NYC-05: Waves, Optics & Modern Physics

Experiment # 5: Thin Lens

OBJECTIVE:

To verify the thin lens equation and the magnification equation for a thin lens.

INTRODUCTION:

The position and size of the image formed by a thin lens is related to the position and size of the object by the following two equations:

$$1/p + 1/q = 1/f \qquad m = y_i / y_o = - q / p$$

where: p = distance from object to lens

q = distance from image to lens

y_o = object height

y_i = image height

The following sign conventions are used:

positive p = real object

negative p = virtual object

positive q = real image

negative q = virtual image

positive f = converging lens

negative f = diverging lens

positive y_i = upright image

negative y_i = inverted image

Note: A negative magnification (for instance if p and q are both positive) means that the image is inverted with respect to the object.

PROCEDURE:

1) Choose one of the converging lens from the set. Select a lens yellow-blue¹. Find the focal length of the lens by focusing the image of a distant object on a white card (e.g. Daytime: the trees outside the window or the tower on H building; Nighttime: an ceiling lamp in the corridor outside the lab). **Repeat the measurement at least three times and calculate the average and mean deviation.**

2) Set up the object (illuminated box) on the optical bench. Mount the lens and the screen on the bench; lens in between the object and the screen. Fix the distance lens-screen to 50.0 cm. Make sure that all three are vertical and perpendicular to the bench axis. Start with the object as far as possible from the lens. Move it close to the lens until a sharp image of the object is projected on the card. Measure the object distance with a meter stick and estimate the uncertainty of this measurement. Move the object back and forth to find the location of the sharpest image. Use a meter stick to measure the object distance. Move the card back and forth again to locate the sharpest image and measure

¹ Do not use either the red-yellow lens or the red-blue lens.

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Terry C. Jones



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