Experiment 2: Reflection

Introduction: The purpose of this experiment is to explore the phenomenon of reflection. Reflection is a fundamental part of optical physics as many further experiments take the results confirmed by this experiment.

Theory:

Experimental Method:

The Transmitter and Receiver were arranged on the Goniometer as shown in Figure 2.1 with the Transmitter attached to the fixed arm. The Transmitter and Receiver were adjusted to be the same polarity.

The Angle of Incidence was adjusted to be 45 degrees. Then the movable arm of the goniometer was rotated until the meter reading was a maximum. The Angle of Reflection was then recorded.

The Angle of Incidence was then varied from between 20 degrees and 90 degrees to provide various different maximums at the Angles of Reflection which were then recorded.