

# Automatic Room Light Controller with Bidirectional Visitor Counter

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## Abstract

This research paper “Automated light controller with visitor counter” is a reliable circuit that is controlling the room lights which count the number of visitors or persons in the room. When someone enters into the room, counter will be incremented and the light in the room will be switched ON. When any one leaves or comes out of the room then the counter is decremented. The light will be switched OFF until all the persons or visitors leave the room. This will help to save electricity. The number of persons or visitors inside the room is displayed on the LCD display. This circuit is mainly based on IR sensor modules and Arduino Uno. The proposed model from the research paper is able to monitor and control the room appliances irrespective of the room. Additionally, it can also instantaneously count the number of persons in a room.

**Key words:** Arduino UNO, Two IR sensor modules, a single relay module, LCD display

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