

# Automatic Dimming of Light in a Vehicle

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**Abstract:** This paper presents the design of an “automatic light dim and dip system”. In the existing system, vehicles dim, and dip is done by man(or)manually. It is important for journey during night time. Our strategy involves design, development and creating this automatic light dim and dip system. According to the law of “Indian Roads and Transport Council”, low intensity light has to be used always, however in the time of overtaking or other mandatory situations, high beam can be turned on, but most of the drivers use elevated, bright beam during night driving. The individual traveling in the opposite direction experiences a sudden glare for a short period of time which leads to accidents in many cases. The automatic vehicle headlight dim and dip system adjust the intensity beam when finds the vehicles in opposite direction. It utilizes a Light Dependent Resistor (LDR) sensor was intended to dim the headlight of vehicles automatically to prevent the impacts of human eyes. It eliminates the driver's need from manual switching which was not done all time. vehicles employed with automatic dippers are not very often seen in our cities, and it may be due to lack of information about the system and also because of giving attention to the people saying that it is not at all practicable in our highways. But this system helps to reduce the accidents rate in nighttime due to the high beam headlight.

**Keywords:** Light dependent resister, glare, bright beam

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