A Study on Communication between Moving passenger Car and Other Vehicles

廖惠民、楊旻洲

E-mail: 354897@mail.dyu.edu.tw

ABSTRACT

Horn and lamps are two types of devices currently available in the cars for drivers to communicate with others. However, additional devices are needed for certain occasions based on the results of a survey conducted in this research. Among them, a reflector was studied to see if it can be effective to inform the posterior driver to turn off the high-beam headlamp when it is disturbing. In-field tests were carried out to see how the reflector of different material, positions, and sizes can bring the posterior driver into awareness that he or she is causing disturbance. The results show that crumpled-aluminum-foil installed at the rear edge of trunk-lid with sizes of 5 cm × 15 cm、6 cm × 9 cm and 6 cm × 12 cm can produce glare to let the posterior driver 10 meters behind notice. Reflector of 6 cm × 12 cm can even make the posterior driver 20 meters behind getting aware. Material with better reflection property is needed for longer distances.

Keywords : reflector


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