ABSTRACT

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Judul Tugas Akhir : Traffic IP Camera for Counting Four-Wheeled Vehicle Using Area of Pixels Method
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Jam that occurs at the intersection of a highway often caused by inefficient timing system. This inefficient timing system can be overcome by applying Smart Traffic Light system at the intersection of a highway. Smart Traffic Light is an integrated system which requires a road density conditions as the input source. Road density conditions can be obtained by using several ways, one of them using camera sensor. IP Camera and vehicle counter using Single Board Computer are integrated into Traffic IP Camera therefore it can be used for counting vehicle directly. The method used for detecting vehicle is area of pixels. Based on the test results directly, show that the Traffic IP Camera system can produce four-wheeled vehicles detection with accuracy up to 82.18 % on daytime and accuracy up to 88.30 % at nighttime.

Keyword: Smart Traffic Light, Traffic IP Camera, IP Camera, Single Board Computer, Area of Pixels Method.
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