Title (en)

STAND-ALONE PASSIVE SYSTEM FOR DETECTING A VEHICLE EXCEEDING A SPEED LIMIT

Title (de)

SELBSTÄNDIGES PASSIVES SYSTEM ZUM DETEKTIEREN EINES FAHRZEUGS, DAS EINE GESCHWINDIGKEITSBEGRENZUNG ÜBERSCHREITET

Title (fr)

SYSTEME PASSIF ET AUTONOME DE DETECTION DU DEPASSEMENT PAR UN VEHICULE D'UNE VITESSE LIMITEE

Publication

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Application

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Abstract (en)

[origin: WO2010041129A1] The invention relates to a stand-alone passive system for detecting a vehicle exceeding the authorised speed limit. The system according to the invention is essentially characterised in that the actual speed of the vehicle V (given in km/h) is obtained using the following formula: V = (Xp / T) (3600 / 1000), where: T (given in ms) corresponds to the time elapsed between two consecutive images of the vehicle registration plate taken by an imaging means; - Xp (given in mm) corresponds to the actual movement of the vehicle and is obtained using the following formula: Xp = X / sin ?, where X (given in mm) corresponds to the horizontal movement between two consecutive images and sin ? corresponds to the sine of the angle formed by the optical axis of the imaging means and the axis of the road, X being obtained, in turn, using the following formula: X = Y (Xc / Yc), where Y (given in mm) corresponds to the height of the characters inscribed on the plate and Xc and Yc (given in pixels) respectively correspond to the horizontal movement and the height of a character.

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