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**ECONOMIC COMMISSION FOR EUROPE**

**INLAND TRANSPORT COMMITTEE**

World Forum for Harmonization of Vehicle Regulations

Working Party on General Safety Provisions

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Geneva, 23-26 October 2007

Item 7 of the provisional agenda

Regulation No. 46

(Devices for indirect vision)

Proposal for draft corrigendum to Regulation No. 46

Submitted by the expert from the International Organization of  
Motor Vehicle Manufacturers (OICA)

The text reproduced below was prepared by the expert from OICA in order to permit the installation of surveillance devices other than surveillance mirrors. It is based on informal document No. GRSG 92-23, distributed during the ninety-second session of GRSG (ECE/TRANS/WP.29/GRSG/71, para. 25). The proposed modifications to the existing text of the Regulation are marked in **bold**.

A. PROPOSAL

Insert a new paragraph 2.1.2.13., to read

"2.1.2.13. "Surveillance camera-monitor-recording device" means a camera and either a monitor or recording equipment other than the camera-monitor device defined in paragraph 2.1.2. which can be fitted to the inside or outside of the vehicle in order to provide fields of vision other than those specified in paragraph 15.2.4 or to provide a security system within or around the vehicle."

Paragraph 15.2.1.2., amend to read:

"15.2.1.2. The provisions of this Regulation do not apply to the surveillance mirrors **or to the surveillance camera-monitor-recording devices** defined in paragraphs 2.1.1.3 and **2.1.2.13 respectively**. Nevertheless, the exterior surveillance mirrors must be mounted at least 2 m above the ground when the vehicle is under a load corresponding to its maximum technical permissible mass **and exterior surveillance cameras shall, if their lower edge is less than 2 m from the ground, not project more than 50 mm beyond the overall width of the vehicle measured without this device and have radii of curvature of not less than 2.5 mm.**"

B. JUSTIFICATION

The proposal is to permit the installation of surveillance equipment, other than surveillance mirrors. Such equipment is often mounted on buses and coaches not only to survey passenger movement within the vehicle and around service doors, but also provide a security system so as to deter and to record attacks on members of the crew or passengers, vandalism, thefts, etc.

Exterior surveillance cameras shall be placed so as to minimise the risk of injuries if a person comes into contact with them. Therefore, when a camera is placed less than 2 m above the ground, it must not project more than 50 mm beyond the overall width of the vehicle and it must not have sharp edges. This is in line with the requirements of paragraph 5.1.1. of Regulation No. 61, which sets the upper limit of the "external surface" at 2.00 m above the ground, above which the projection of devices is not assessed. A projection of 50 mm and radii of curvature of 2.5 mm falls within the range of limits set-out in paragraph 6.6.1. of Regulation No. 61 for devices less than 2.00 m above the ground.

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