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|---------------------------------------------------------------------------------------------------------------------------|---------------------|
| <b>Subject:</b><br><br><b>ACTIVE DRIVING DISPLAY SHOWS A SPEED LIMIT DIFFERENT FROM ACTUAL ELECTRONIC TRAFFIC SIGN(s)</b> | <b>M-Tips No.:</b>  |
|                                                                                                                           | <b>Last Issued:</b> |

## DESCRIPTION

Some customers may complain that when driving a vehicle equipped with Traffic Sign Recognition System (TSR), the Active Driving Display (AD-Display) shows a speed limit different from the actual electronic traffic signs. For example, The AD-Display shows 55 mph instead of 65 mph actually displayed on the electronic traffic sign. This may be a normal condition.

The Forward Sensing Camera (FSC) may not be able to capture a traffic sign's image during one of the following conditions:

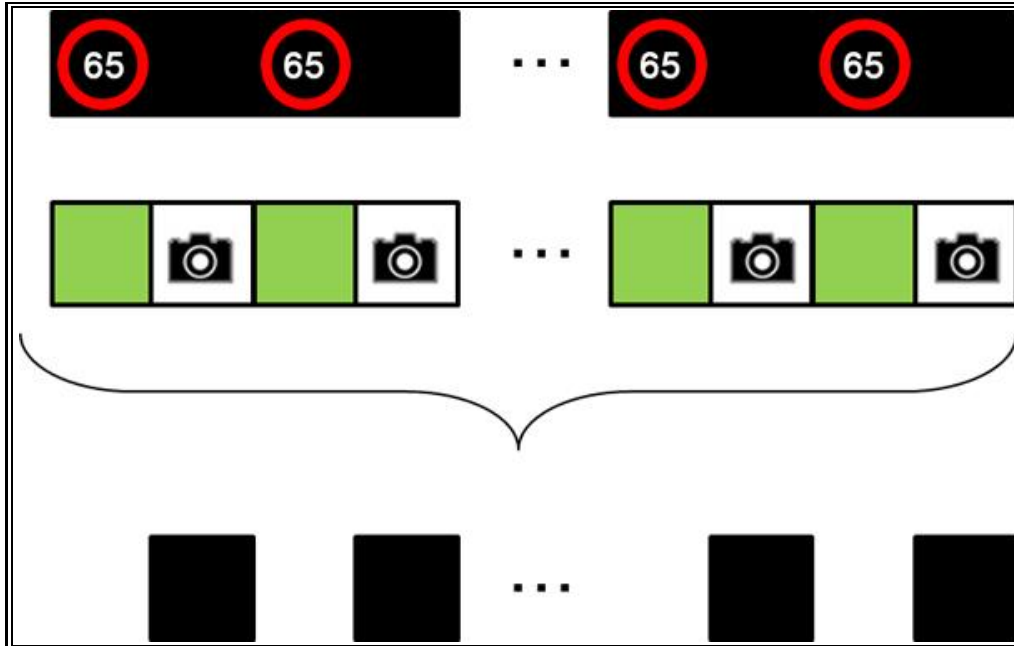
1. LED type electronic traffic signs flickering in various frequencies.
2. A traffic sign may be too bright to capture.

During the conditions above, the AD-Display will show the speed limit according to the data in the Navigation system.

## LED Electronic Traffic Sign(s) Flickering

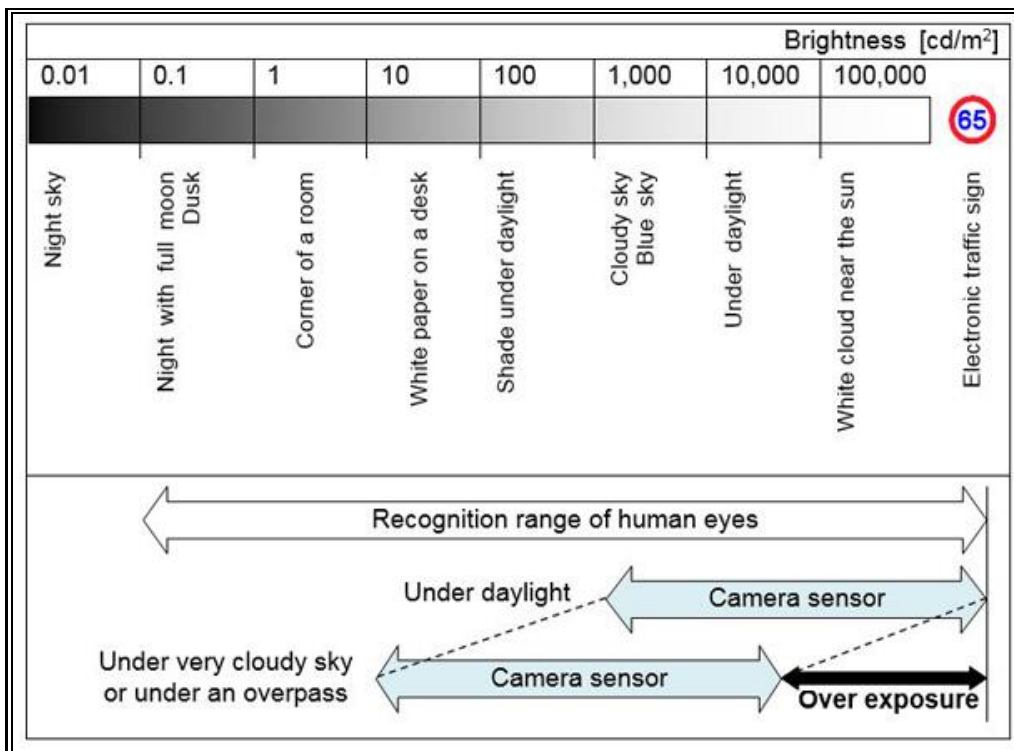


The Forward Sensing Camera (FSC) is designed to be able to capture proper image of LED type electronic traffic signs flickering in various frequencies. However, some traffic signs may not synchronize to the frame rate of the FSC. In such a condition, when a certain time has passed since last recognition of the traffic signs, AD-Display will show the speed limit according to the data in the Navigation system. If the data in the Navigation system is different from the actual traffic sign, AD-Display shows different speed limit.



## Traffic Sign Too Bright

The exposure level is controlled according to the brightness of the surroundings and vice versa. Like human eyes the camera sensor's exposure level under darker environment such as under very cloudy sky or under an overpass or sudden changing contrast lead to delay the full detection hence the data retrieved from the Navigation system will be displayed instead.



Do not perform a repair for the conditions above. If necessary, refer customer to Owner's Manual>Section 4. When Driving>i-ACTIVENSENSE>Traffic Sign Recognition System (TRS).

When Driving

**i-ACTIVENSENSE**

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**NOTE**

- The Traffic Sign Recognition System (TSR) does not operate if there is a malfunction in the Forward Sensing Camera (FSC).
- Under the following conditions, the Traffic Sign Recognition System (TSR) may not operate normally.
  - An object placed on the dashboard is reflected in the windshield and picked up by the camera.
  - Heavy luggage is loaded in the luggage compartment or on the rear seat and the vehicle is tilted.
  - The tire pressures are not adjusted to the specified pressure.
  - Tires other than standard tires are equipped.
  - The vehicle is driven on the ramp and surrounding area to or from a rest area or a tollgate on a highway.
  - When surrounding brightness suddenly changes such as when entering or exiting a tunnel.
  - The illumination of the headlights is weakened because of dirt or the optical axis is deviated.
  - The windshield is dirty or foggy.
  - The windshield and camera are fogged (water droplets).
  - Strong light is directed at the front of the vehicle (such as backlight or high-beam headlights of on-coming vehicles).
  - The vehicle is making a sharp turn.
  - Strong light reflects off the road.
  - A traffic sign is in a position which makes it difficult to reflect the light from the vehicle's headlights, such as when the vehicle is driven at night or in a tunnel.
  - The vehicle is driven under weather conditions such as rain, fog, or snow.
  - The stored map data for the navigation system is not current.
  - The camera cannot capture a traffic sign's image.
    - A traffic sign is obscured by mud or snow.
    - A traffic sign is concealed by trees or a vehicle.
    - A traffic sign is partially shaded.
    - A traffic sign is bent or warped.
    - A traffic sign is too low or too high.
    - A traffic sign is too bright or too dark (including electronic traffic signs).
    - A traffic sign is too big or too small.
    - There is an object similar to the traffic sign being read (such as another traffic sign or other signs resembling it).
- The Traffic Sign Recognition System (TSR) does not operate if the active driving display is set to non-display.
- The Traffic Sign Recognition System (TSR) can be set to inoperable.  
Refer to Personalization Features