Mobileye

What Is It   &   How It Works

Austin, TX #269

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What Factors Cause **Preventable** Accidents / Collisions / Passenger Injuries & Employee Injuries

Accidents, Collisions, Passenger Injuries and Employee Injuries are caused by one or more of the following factors:

- ✓ **Failure To Pay Attention**
  - ➢ **Example – Looking Down At Your MDT**
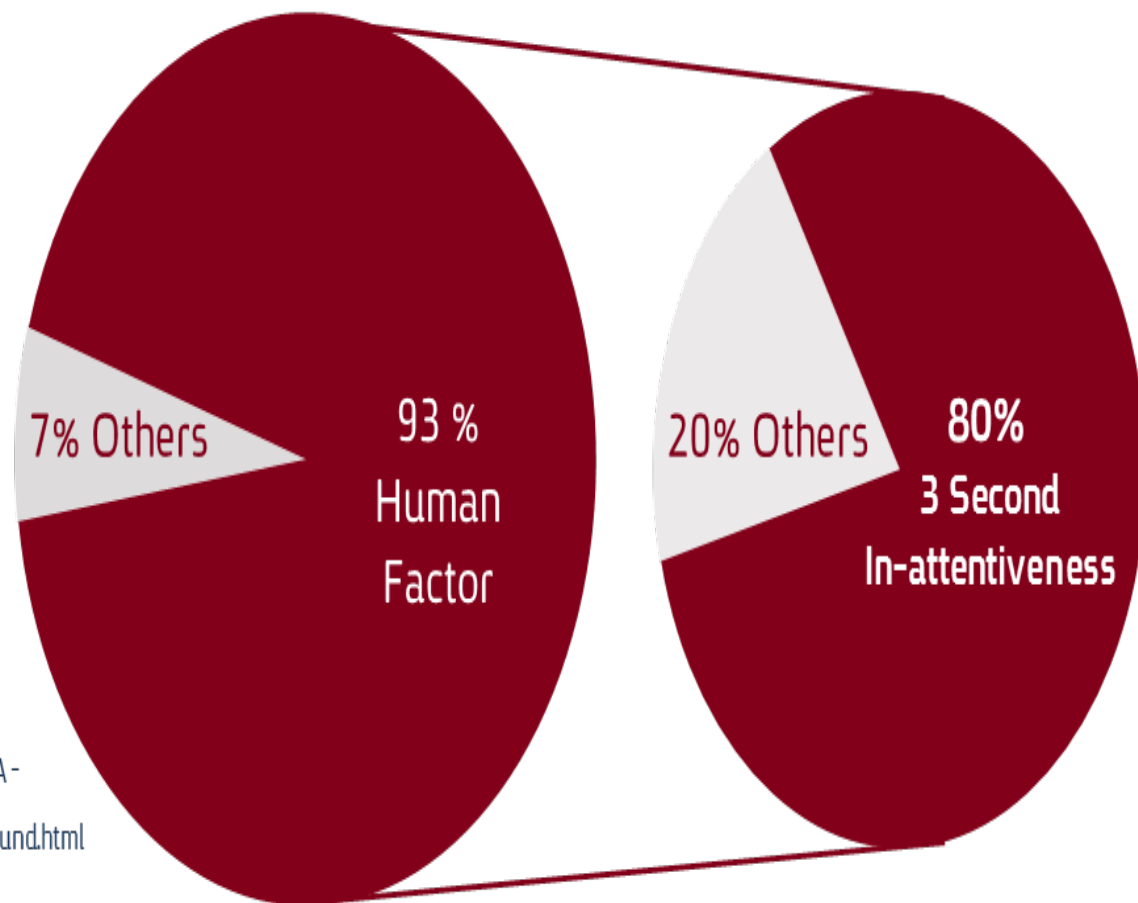 - ➢ **Example – Not Continuously Scanning Roadway**

- ✓ **Exceeding Performance Capabilities**
  - ➢ **Example – Fatigue**

- ✓ **Engaging In Unsafe Acts or Unsafe Behaviours**
  - ➢ **Example – Running A Red Traffic Light or Rolling Stop**
  - ➢ **Example – Improper Following Distance**
  - ➢ **Example – Backing Without G.O.A.L.**

The human factor is responsible for 93% of collisions

Sources: VTRC - Virginia Transportation Research Council NHTSA -

www.nhtsa.dot.gov/people/injury/research/UDAshortrpt/background.html

7% Others

93 % Human Factor

20% Others

80% 3 Second In-attentiveness

➢ In a effort to reduce vehicle collisions & pedestrian/bicycle accidents that are caused by unsafe acts and unsafe behaviours, MV Transportation has deployed Mobileye.

➢ Currently, MV Transportation has deployed 433 Mobileye units.   An additional 5,000 units are slated to be deployed by December 2017.

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❖ **Key Performance Indicators – Pre vs. Post Mobileye Deployment (11/01/2014)**

❑ **Total Accident Frequency Rate (PAFR) =** **11.61% improvement**

❑ **Preventable Accident Frequency Rate (PAFR)** = **19.37% improvement**

❑ **Employee Injury Frequency Rates (PAFR)** = **12.71% improvement**

❑ **DriveCam Performance – post Mobileye deployment**

- **2.60% reduction** in scored DriveCam events

- **18.05% reduction** in Following Too Close events

- **59.72% reduction** in Pedestrian events

- **35% reduction** in Not Scanning Intersection events

MV TRANSPORTATION, INC.

MOBILEYE®
Our Vision. Your Safety ™

➢ Mobileye - Is the global pioneer and leader in the development of collision avoidance and autonomous driving systems based on artificial vision technology.

➢ Unparalleled Accuracy – Optimizes complex algorithms. Mobileye's Forward Collision Warning algorithms have demonstrated 99.99% accuracy.

96.7 Ft

90.2 Ft

82.6 Ft

www.mvtransit.com

Mobileye
Pedestrian
Collision Warning

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FWD 0.00   LAT 0.02   TIME -10.00

Mobileye Lane
Departure Warning

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FWD -0.06   LAT 0.09   TIME -10.00   51 MPH 82 km/h GPS

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Mobileye Headway Monitoring & Warning

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MOBILEYE
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FWD -0.05   LAT -0.02   TIME -11.25   50 MPH 80 km/h GPS

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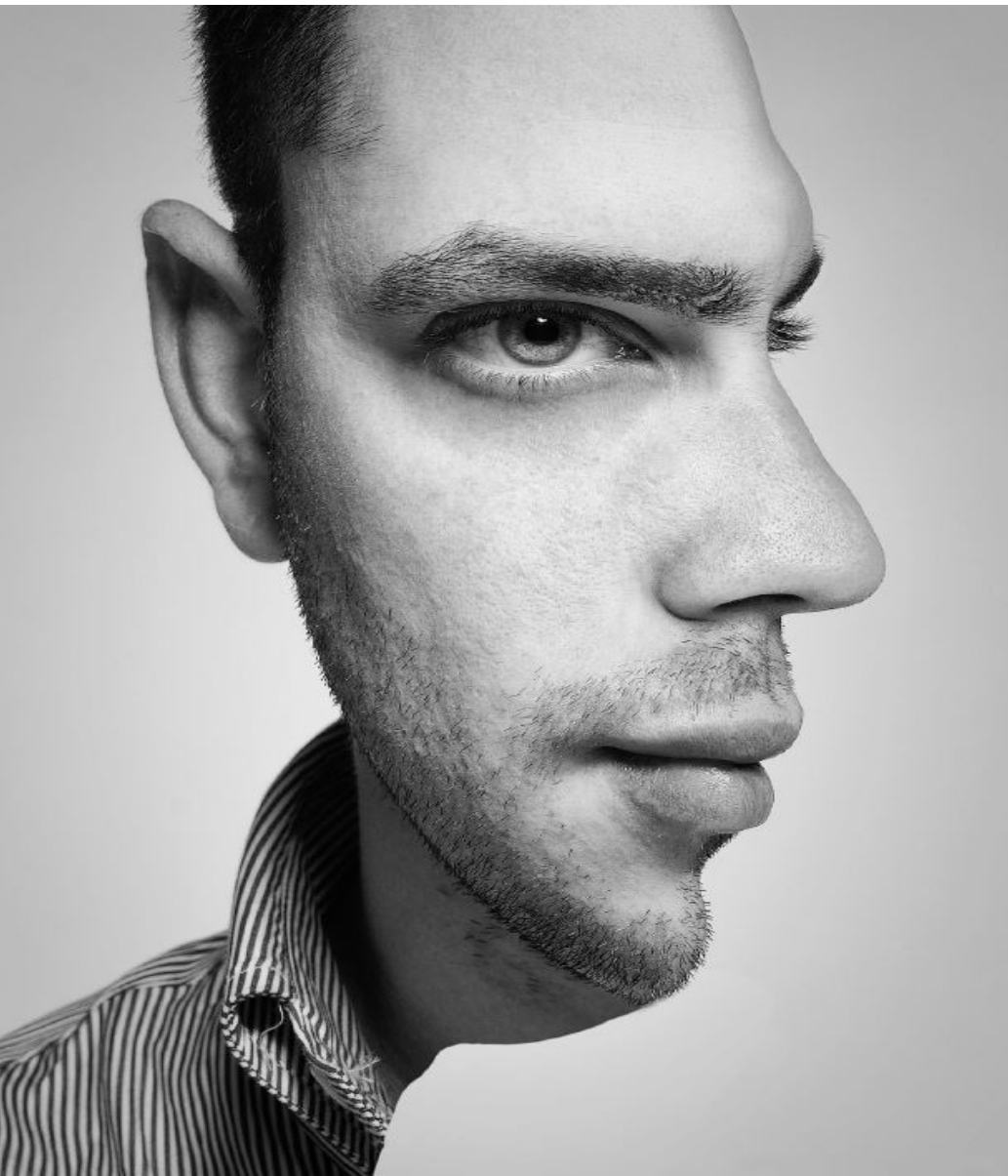Mobileye Forward Collision Warning

FWD 0.07   LAT -0.03   TIME -10.00   29 MPH 47 km/h GPS

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OPTICAL ILLUSION

Things aren't always as they first appear.

Am I looking at you, Or away from you?

When you drive your bus, take the time to look twice, and then again.