

DRIVER MONITORING

DEMONSTRATION

APPLICATION SCENARIO

Driver alertness monitoring, through detection of:

- Eye gaze
- Head pose
- Alertness status
- Drowsiness
- Shades/ Eyeglasses
- Eye closure graph

PERFORMANCE

- Machine vision based: 30 FPS on TI TDA2X, 25 FPS on TI TDA3x and 35FPS on Intel i5
- Machine learning based: 22 FPS on GPU

SUPPORTED PLATFORMS

- Machine vision based: TI TDA2X, TDA3x, NVIDIA TK1 and TX1, Intel x86 (can be easily ported to various platforms)
- Machine learning based: Intel/GPU/Renasas RZ series (G1M - R8A77430)

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BENEFITS

- Reduce time-to-market by up to 50%
- Algorithm accuracy of over 90% for face detection, eye-gaze and head-pose detection already achieved
- Easily customizable to suit customer needs