# Driver Status Monitoring

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| **기술명** | **Driver Status Monitoring Technology** |
| **향지** | **ALL** |



| 주요 기능 | 상세 설명 |
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| **Face Recognition** | Recognizes the driver's face across various environments, expressions, and lighting conditions, with IR camera–based liveness detection. |
| **Driver Gaze Tracking** | Detects gaze direction relative to the driver's head position and monitors forward-viewing behavior to enhance driving safety. |
| **Drowsiness Detection** | Tracks the driver's eye-closure patterns to detect signs of drowsiness, improving overall driving safety through continuous monitoring. |
| **Voice Recognition** | Supports multilingual voice recognition powered by OpenAI Whisper, enhancing usability and driver convenience. |
| **AI Chatbot** | Implements a lightweight AI Chatbot using the Google Gemma API, with the capability to add future conversational features. |

MOTREX