

SHRI GURU NANAK DEV ENGINEERING WORKS

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SMART OPERATOR FATIGUE MONITORING SYSTEM



BRAND / MAKE - MEM (INDIA)

MANUFACTURER - SHRI GURUNANAK DEV ENGINEERING WORKS

MODEL NUMBER - FMS1282020

SMART ONLINE OPERATOR FATIGUE MONITORING SYSTEM

It is a temper proof driver state analysis technology, which gives a warning of fatigue drive and kinds of dangerous driving behaviors by means of image and Gesture recognition and driver's mental state analysis to decrease accidents caused by fatigue driving Suitable For One To One Fitment In All KOMATSU, CAT, BEML, BELAZ & TATA HITACHI Dumpers, Water Tankers & ALL Other HEMM.

SMART OPERATOR FATIGUE MONITORING SYSTEM WITH 128GB TEMPER PROFF RECORDING BLACK BOX AND EXTERNAL WARNING BEACON LIGHT TO ALERT THE SURROUNDING VEHICLES.

Suitable for all HEMM as per DGMS (Tech) Circular No. 06 of 2020 Dt-27/02/2020.

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The system will detect the following 8 conditions and will give warning accordingly with recording the proof via Videos and Images in 128GB SD Card and giving warning simultaneously by Exterior Revolving light to alert the surrounding Vehicle.

1. **Fatigue Warning :-** Through facial detection, the DSM detects driver's eyes are abnormally keeping closed it would give Fatigue warning.
2. **Tiredness Warning-** When the driver is found in the drowsiness state and is unable to concentrate it would give alert warning.
3. **Distraction Warning :** When the driver is found bowing to look at the mobile phone and taking other actions, the device will issue a distraction warning.
4. **BLOCK/Cover Warning -** Once the system is covered by some obstructions such as a towel, Newspaper or by hand it will send a cover warning after 10s.
5. **Look-Aside Warning:** When the driver looks at the left or right side for more than 5seconds, it will trigger the looking- around warning.
6. **Smoking Warning:** When the driver smokes while driving, it will trigger the smoking warning.
7. **Calling Warning:** When the driver holds a phone and keeps talking for more than 6s, it will trigger the phone warning.
8. **Yawn Warning:** When the driver yawns while driving, it will trigger the yawn warning.

Product Characteristics



Fatigue Warning



Yawning Warning



Distraction Warning



Smoking Warning



Video Storage



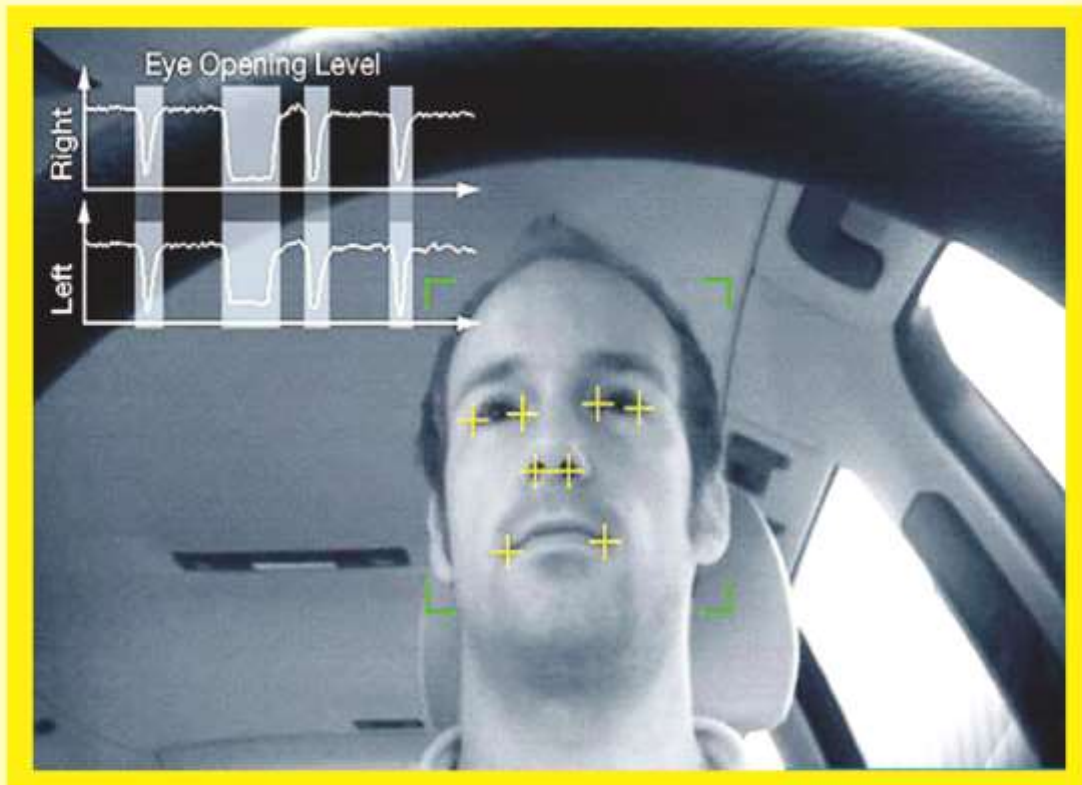
Remote Video Monitoring



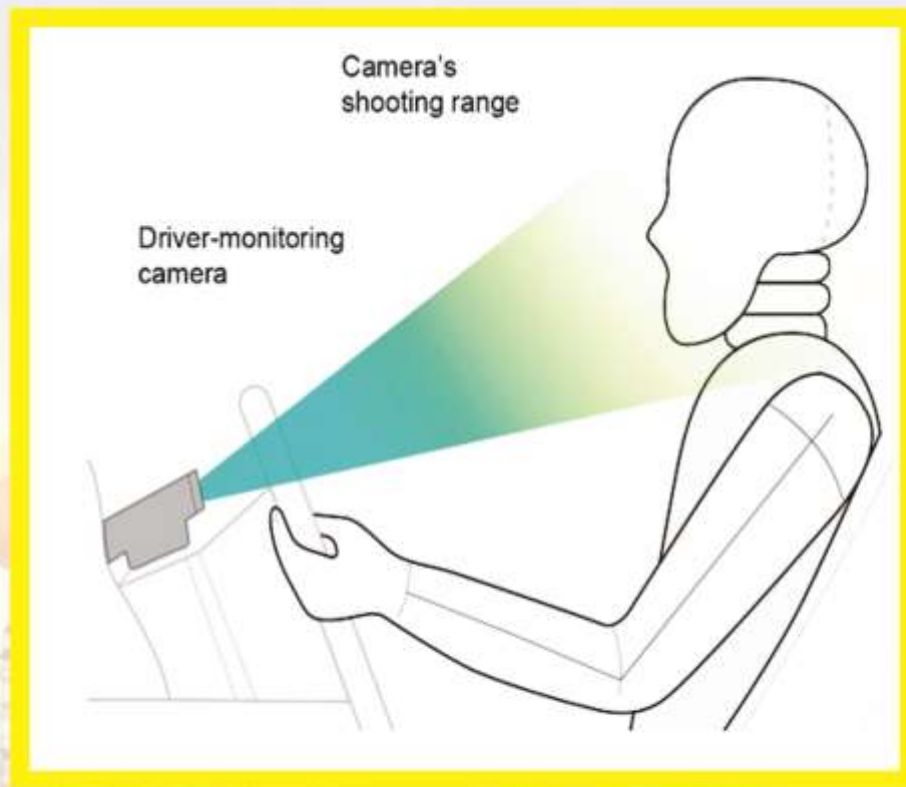
Calling Warning



Block Camera Warning



9. **In cab Camera for Recording:** An integrated extra camera would be mounted in-side the cabin to record the complete in-cab activity (Optional*).
10. **Vibration Cushion:** An heavy duty vibration cushion would be mounted on the operator seat to give vibration alerts to the operator when he goes in fatigue state (Optional*).
11. **Exterior Revolving light:** High Intensity LED Revolving light would be mounted on the outer top of the cabin to give visual alarm to other vehicle operators.
12. **Online Data Transmitting:** Online data can be shared to central monitoring by means of 4G/3G/2G/ WIFI connectivity (Optional*).
13. **Integrated Hard Disk:** Integrated hard disk which will store all the data from the fatigue sensor and in-cab camera for backup and review.
14. **Heavy Duty Metal Body :** Metal bracket with allen key bolt Completely Vibration proof, and tough design to withstand harsh mining condition.
15. **Temper proof Design :** No exterior switch or buttons to by pass the system or turn of the system to eliminate unauthorized tempering.
16. **Cut proof and fire proof wiring Insulation**



It will make a record for each alarm information, including the position, event, alarm type and the relevant file name of alarm Images, etc. Local Storage of Alarm Images
It will create folders with year, month, day in an 128 GB SD card and store the alarm images of the day sorted according to types of fatigue warning (sleepiness, calling, smoking, etc.)

The recording 128GB will be non removable inbuilt type so that removal of memory will not be possible.

The Recording will be accessible by only proper user ID and password. Complete recordings will be secure with password and temper proof. Recordings will not be Visible, Editable, Delete able and Sharing without entry of authentic user ID Password.

Suitable as per DGMS (Tech) Circular No. 06 of 2020 Dt-27/02/2020.

Mines Safety Catalogue

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