

## ◆ The Driver status warning alert system ◆

### Functions

The driver status warning alert system can monitor the locomotive crew's mental status during train operation and issue timely and graded alert alarm signals to wake up the locomotive crew when napping or drowsy, turning safety risk management from post-facto analysis of results to online real-time reminder prevention.



### Functions

1) Online recognition of crew status.

Locomotive crew members' facial and eye characteristics are collected, and the bad working conditions of locomotive crew members, such as not looking straight ahead, mental discomfort, and sleeping, are identified online through image processing technology.

(2) Online alert and alarm function.

The alert information is transmitted to the central processing platform using a three-level online warning alert. Different warning sounds are issued according to the alarm level to remind the crew online.

## Products

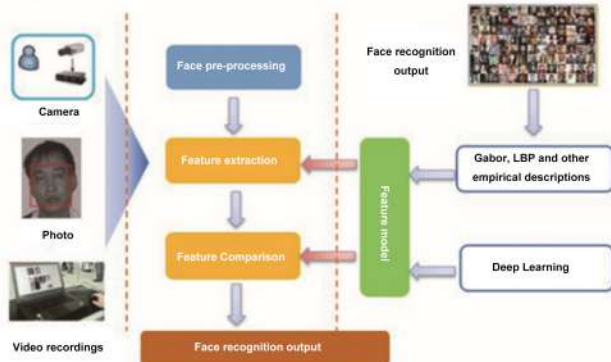
The driver status warning alert system



## Products

The driver status warning alert system

### Image Acquisition Face Recognition Comparison



### Features

- 1) high accuracy;
- 2) pleasing naturalness;
- 3) simple and easy to operate and install;
- 4) non-contact.



When the crew member's bad working condition lasts for 10 seconds, a first-level online alert is issued; a second-level sign appears at 15 seconds, and third-level attention is given at 20 seconds. During each level of online warning reminder, the online warning reminder will be automatically removed after the crew member resumes looking straight ahead of the operation.

### Application environment.

The system has the advantages of explicit images and accurate judgments and is now widely used in the railroad industry in the relevant machine-related stations.