

◆ Remote video surveillance system for locomotive operation ◆

**Product Description**

Through this system, you can achieve remote control (reserved) and local forensics, significantly impacting the driver and passenger standard operation, in-vehicle safety monitoring, etc.

(1) Remote auditing of drivers and passengers to prevent irregularities. Violations can be detected and stopped in time, reducing the workload of inspectors and improving efficiency. The driver and crew are urged to carry out standardized operations such as hand-over-eye inspection, call-out response, and patrol on the way.

(2) It is a supplementary viewing tool for the driver and crew. A monitor in front of the locomotive allows the driver and staff to operate with no dead spots. It also allows the locomotive driver and team to have a broader view; Simultaneously, it enables the driver and crew to monitor the operating status of each essential part in real time, effectively solving the problem that a single driver cannot conduct inspections.

(3) Through audio and video image playback, we can accurately grasp the operation of the driver and crew and analyze the chronic problems that exist during the process of the driver and team. Understanding situations that cannot be mastered in the daily additions to the crew facilitates the effective standardization of the standardized work of the drivers and crews.



The wireless video monitoring and dispatching system has three components: vehicle-mounted video monitoring and storage, network transmission, and monitoring and dispatching center.

**Product Components**



# Products

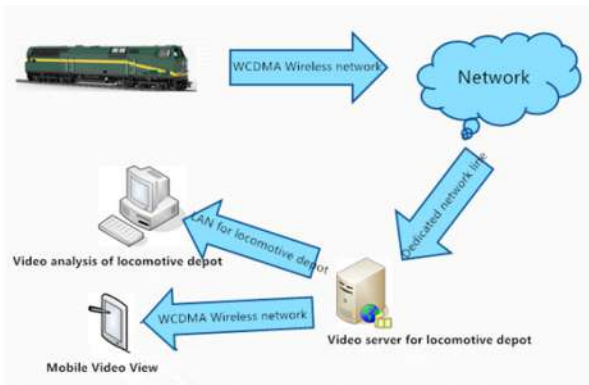
Pantograph video surveillance system for EMU



# Products

Pantograph video surveillance system for EMU

**System Components**



**Function**

- 1) Two devices are installed in one locomotive in the main cab and the deputy cab. The two devices are cascaded through the Gigabit network port to achieve mutual backup of video data between the two devices.
- 2) 7 IPC input interfaces are reserved for each device, and the server powers the IPC.
- 3) IPC definition of 1280x720P.
- 4) Preview, local storage, download, and playback of video recordings.
- 5) remote real-time viewing and playback of footage via the upper CEIBA-II platform.
- 6) External GPS module via RS232 interface to locate and store and upload locating information of the locomotive.
- 7) Data uploading and downloading with the upper management platform CEIBA-II via the 3G network.
- 8) 7 digital input interfaces reserved for smoke and fire alarm functions.
- 9) USB 3.0 interface for local upgrading of the host computer or downloading of video files.
- 10) RS485 interface with isolation is reserved for connecting with the black locomotive box and receiving information from the black locomotive box.

**Application environment:**

The products are widely used in diesel Locomotive  
The products can be used in alpine and high-altitude EMU, fully verifying the reliability and stability of the company's products.