# Mobile Video Surveillance Device for Passenger train and EMU

# Content

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# Overview of mobile video surveillance unit

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## Products

Mobile video surveillance devices for railway coaches and EMU should enable monitoring of public areas in the coach; real-time storage of captured video and audio information, with the ability to query, playback, and download using external authorized equipment.

Railway coaches and EMU mobile video surveillance device mountings are fixed to the vehicle end wall and other parts, The main body of the video surveillance device is set on the mounting seat in a convenient way of disassembly and assembly. The Video surveillance device with vehicle power supply and single camera storage.

# Mobile Video Surveillance Unit Product Categories

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Depending on the position of the wire and cable outlet, they are divided into the upper outlet, and back outlet end wall mounted mobile video surveillance units. The main difference between the two types of structure is the different structures of the metal hangers.
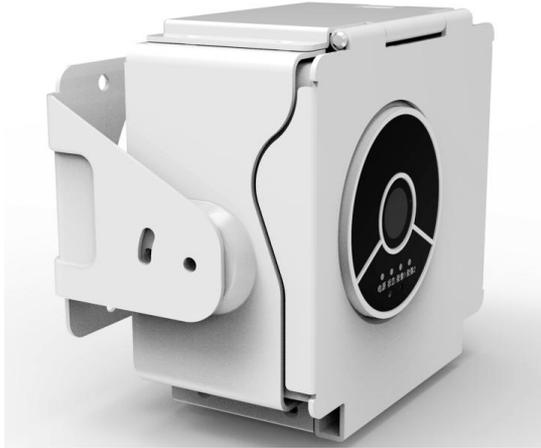


Back outlet mobile video surveillance unit with the outlet at the back, metal hanger mounted on the plywood wall, plywood wall with built-in sleeve, metal hanger mounted by screws with the wall with a built-in sleeve, The cables and connectors are connected to the vehicle power cable connectors via metal hangers and through-wire holes in the walls.



The upper outlet of the mobile video surveillance unit is located above the video surveillance unit, with a metal hanger mounted on a plywood top plate or FRP top plate. The plywood top plate has a built-in screw sleeve, the FRP top plate has additional lining and a built-in screw sleeve, and the metal hangers are fitted with screws to the top plate with a built-in screw sleeve. The cables and connectors are connected to the vehicle power cable connectors via metal hangers and over-wire holes in the top plate.

# System composition
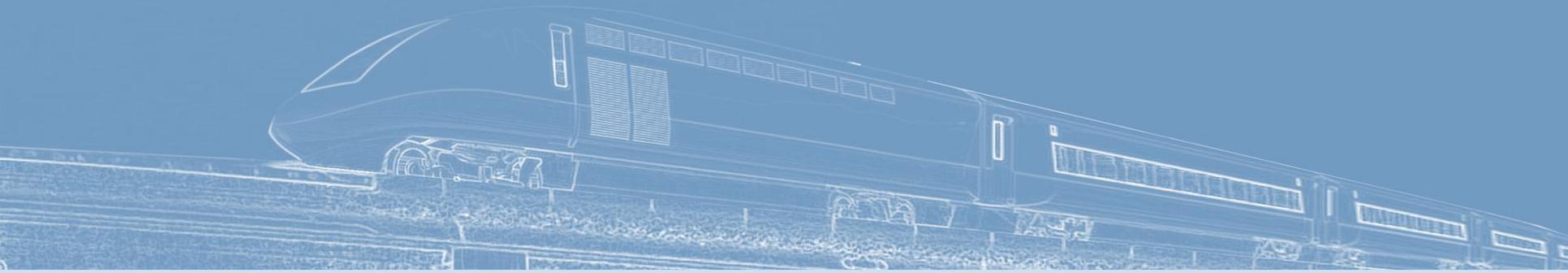
# Video capture and storage unit

Mobile video surveillance units using the same video capture and storage unit



• The camera resolution is adjustable to 1920 x 1080/1280 x 720 and supports 60 fps, 30 fps, and 25 fps.

• The monitoring device can meet the monitoring viewing angle requirements by adjusting the angle.

• Infra-red night vision fills light, infra-red adaptive; effective infra-red night vision distance at 0.1 LUX 5m to see the facial features of people, 10m to see the human body outline.

• Video encoding format H.264 or H.265, MP4, AVI format output available, image naming information can be superimposed Audio encoding format AAC, audio encapsulation format WAV or MP3; photo format support JPEG.

# SD卡
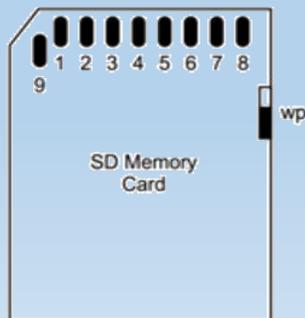


• The capacity is 512G, which meets the audio and video storage requirements of no less than 30×24h.

• Read speed greater than 80MByte/s, write speed greater than 20MByte/s, erasable not less than 3000 times, failure-free use plugging times greater than 2000 times.

# Bracket





- The bracket is customized according to the model and the form of the outlet.
- The position of the wire hole of the middle metal hanger is positioned according to the outlet position of the mobile video surveillance device., set to meet the requirements that the over-wire spot is within the metal hanger and does not interfere with the installation hole. The cable crossing holes are to be protected by additional coils.
- Made of Q235 and sprayed by RAL 9016.

# WAGO Connectors
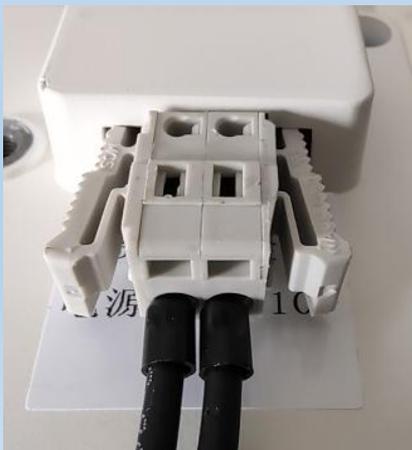


- The power connector is connected with the brand 721-102/037-000 male and female connectors, which are safe, reliable, and stable.

# Instructions for use

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The mobile video surveillance unit is powered up and connected to the computer using the M12 connection cable.



1. IP address: 192.168.1.X (one network segment with IPC); 255.255.0.0.

2, Install the mobile video surveillance device client software.

3, enter the correct "user name" and "password" you can enter the client software: track admin: 123456
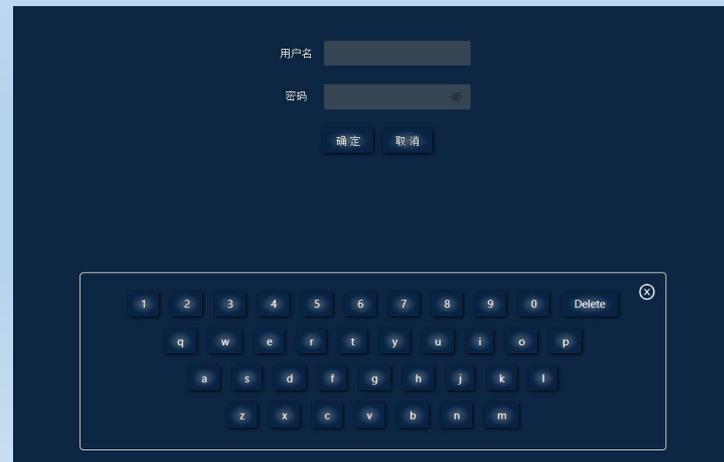
# Parameter setting

## Set relevant parameters

Train number: You can fill in and modify the train number information for product installation;

Vehicle number: You can fill in and modify the vehicle number information for product installation;

Carriage number: you can fill in and modify the information of the carriage number installed by the product.

Monitoring area: you can distinguish between mobile video surveillance devices with different monitoring ranges in the same compartment.

Resolution: you can change the recording resolution of the mobile video surveillance device (1920*1080 and 1280*720 optional).

Frame rate: the frame rate of the mobile video surveillance device can be changed.

Video encoding: support for both H264 and H265 video encoding formats.

Audio coding: optional ACC audio coding format;

Video picture quality: support for 1-8 video picture quality optional, setting 4.

Time: displays the camera's local time, as shown in the illustration.

# Data Download and Playback
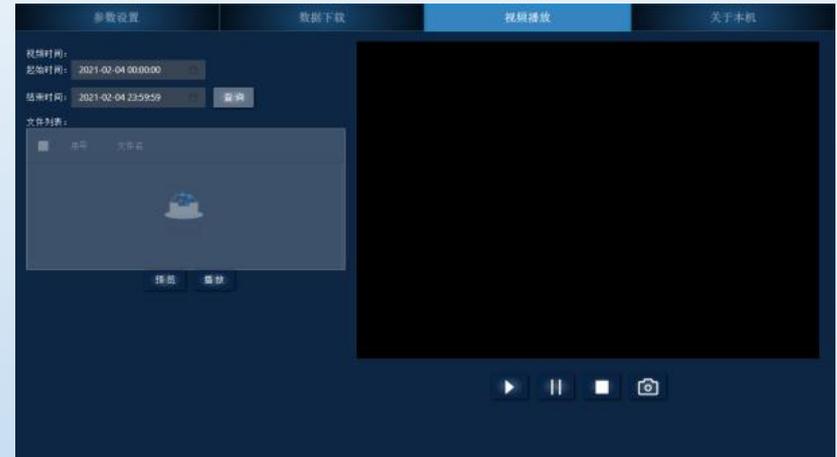


Download:

    1, Select the corresponding date and time and click on "Search" for the video file that meets the requirements.

    2, Select the file you need to download and click "Confirm" to download.

Playback:

    1, Click "Preview" to view the preview image of the mobile video surveillance device in real-time and adjust the angle of the mobile video surveillance device according to the vehicle coverage location.

    2, Select the corresponding date and time, click "Play" the video file that meets the requirements, and you can view the history of the video. Take a picture button to capture the current time picture; the playback button clicks to view the history video.

# Maintenance updates



Click "system update," enter the login password to enter the interface, and you can get mobile video surveillance. Device for calibration work, select the upgrade program can also complete the camera upgrade work
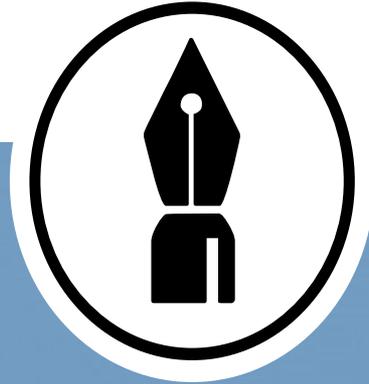
# Inspection & Maintenance
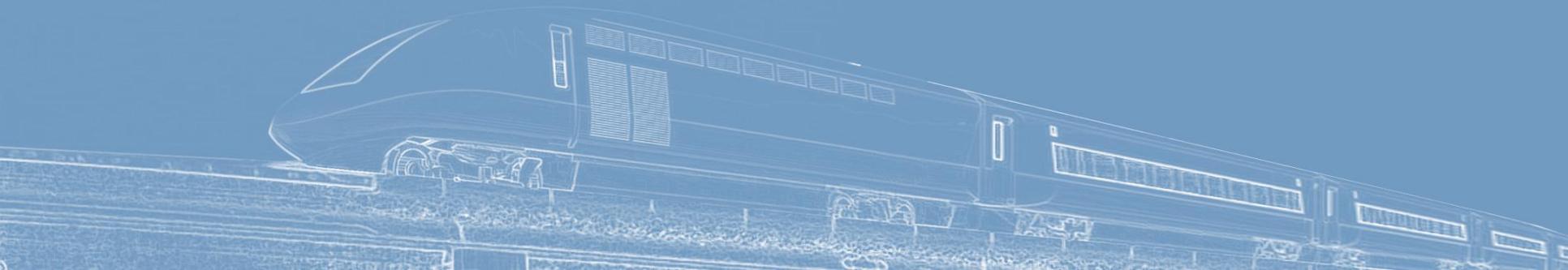
**Inspection, maintenance Matters**

**01** Check that the mobile device is connected correctly.

**02** Cleaning of the camera lens surface, cleaning of glass surface dust with a neutral cleaning solution

**03** Check for loose camera mounts

**04** Check the power interface of the mobile video surveillance unit and the network interface for looseness.
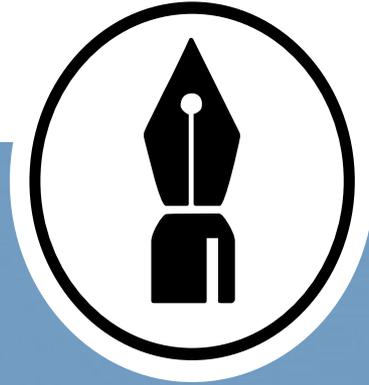
# Alarms and Troubleshooting

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**Camera not start**

When the host is powered on, whether the host starts;

Check whether the cable is connected correctly;

Check whether the host is powered usually, and check from the input voltage terminal.

**Indicator light corresponds to the camera status light or goes out**

Checking that the SD card of the camera is all there.

Checking that the camera is in regular operation and that the normal is a constant green light.

Checking that the camera is connected to the cable.

**Equipment No video**

Observe the status of the indicators and whether the camera indicator is off. Check the nature of the camera alarm on the external authorized device, test the connectivity of the faulty camera with the PING 192.168.1.100 command and check whether the camera's input power is between the standard supply voltage.

**Video cannot be accessed or played back**

Observe the status of the indicator light and whether the storage light is off. View the nature of the storage alarm on an external authorized device to determine if the SD card is damaged.

# Thank you!