



HIKMICRO AI Series  
Acoustic Imaging Camera (V5.5.108)  
Release Notes

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# 1 Introduction

The HIKMICRO AI Series acoustic imaging camera is a professional product for sound source localization. With low-noise MEMS microphones and an adjustable bandwidth range from 0 kHz to 96 kHz, the camera provides an easy and effective way to locate gas leaks in industrial environments or detect partial discharge in high-voltage systems. By using a large 4.3" LCD touch screen, the results presented on top of a digital picture allow you to quickly find the source of the problems. The maximum operating distance could reach 150 meters, which can ensure you stay at a safe distance to inspect the high-voltage equipment. By adopting this lightweight and easy-to-use tool, you can discover potential safety risks, minimize troubleshooting, and save extra costs of equipment failures and downtime.

This document introduces new features and optimizations in V5.5.108 of AI series cameras.

For detailed operation guide, please refer to the user manual of AI series acoustic imaging camera, V5.5.108.



- This product is designed to assess gas leakage to achieve cost savings. However, due to potential environmental factors that may affect detection accuracy, the estimations provided are approximate and for informational purposes only. It should be noted that the results presented by the devices are not a guarantee of actual cost savings or a recommendation, and may not accurately reflect the specific situation of your facilities.
  - The images used in this document are for demonstration only. Please refer to the actual product.
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## 1.1 Version Information

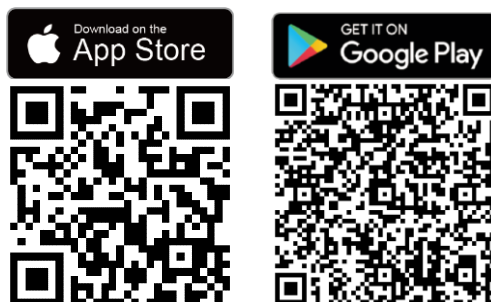
Item	Description
Models	AI56, AI76
Firmware	V5.5.108 build 250213
HIKMICRO Viewer (Mobile APP)	V2.4.3 and newer version
HIKMICRO Analyzer Acoustic (PC Client)	V1.1.4.3

## 1.2 How to update to new version

### 1.2.1 Upgrade with HIKMICRO Viewer APP

Connect your device to HIKMICRO Viewer APP and tap on **Device Upgrade** to check device firmware version and proceed online upgrading.

Download and install HIKMICRO Viewer to your phone. Search the APP name in your APP store, or scan the following QR code.



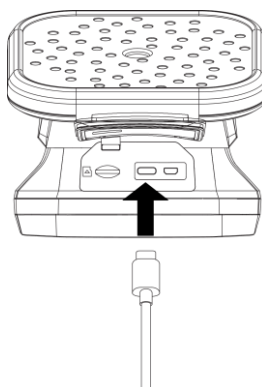
### 1.2.2 Upgrade with an upgrade file

Before upgrading your device, make sure:

- Device battery is fully charged.
- Auto Power-off function is turned off to avoid accidental suspension during upgrading.
- A memory card has been installed to device.

#### *Steps*

1. Download new firmware from our website <https://www.hikmicrotech.com/en/industrial-products/ai56-acoustic-camera/>, and save it to your PC.
2. Use supplied USB cable (USB type C to USB type A) to connect the device to PC.



3. Open the detected disk on your PC.



4. Unzip the firmware and copy the .dav file to the root directory of the disk.
5. Disconnect the device from PC and reboot the device to start upgrading automatically.

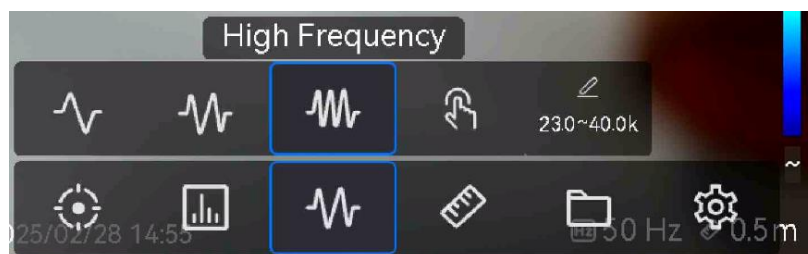
## 2 New Features

### 2.1 Frequency settings is updated

In this version, the camera supports low/middle/high frequency levels in PD and LD modes where users don't need to manually set the selected frequency range.

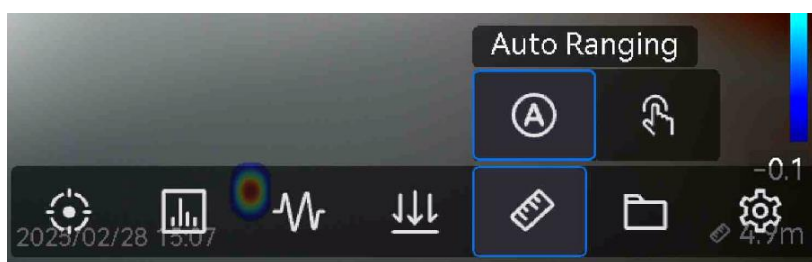
Besides, PD mode also supports manual adjustment and custom modes.


Tap  > , and go to frequency setting menu. See *5.1 Set Frequency* in the user manual for instructions.



### 2.2 Auto Ranging is available in LD mode





In this version, LD mode supports Auto Ranging in which the camera can automatically detect the sound source distance.



When Multiple Sources is enabled, Auto Ranging is not supported. Please turn off multiple sources mode first via  > **Acoustic Settings** > **Multiple Sources**.

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#### *Steps*

1. In live view, tap  or press  to show the menu.
2. Switch to LD mode.
3. Select  > , and the device automatically calculate the source distance.



- If there is no acoustic palette, “~” is displayed on the bottom right in live view.
  - Set distance unit from > **Device Settings** > **Unit** > **Distance**.
- 

## 2.3 Industrial Frequency is supported in PD mode

Industrial Frequency refers to the working electrical frequency of the observed targets. It affects the accuracy of acoustic detection.



- ONLY PD mode supports industrial frequency function.
  - If **Video Standard** is switched, the value of industrial frequency is changed simultaneously. See *6.4 Set Video Standard* in the user manual for instructions.
- 

### *Steps*

1. Tap > **Acoustic Settings** > **Industrial Frequency**.
2. Press or to save and exit.

### *Results*

The value of Industrial Frequency is displayed on the bottom right of live view interface.

## 3 Optimization

- The detection algorithm of LD mode is optimized for better accuracy.
- The Ultrasonic to Audible switch remains the same status as the last operation.
- Leak Type settings in LD mode is removed.



## 4 FAQ on Upgrade

### 4.1 Why my PC failed to detect the camera as a USB drive?

Check the following items:

- Use a good quality type A to type C USB cable to connect your PC to your camera. The supplied cable is recommended. Normally, a cable should be able to charge a camera and transfer data.
- Keep the microSD card inserted and do not remove it during connection.
- Keep the camera powered on.

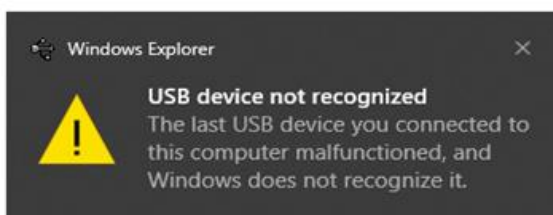
### 4.2 What should I do when my PC notifies power surge on the USB port?



Check the following items:

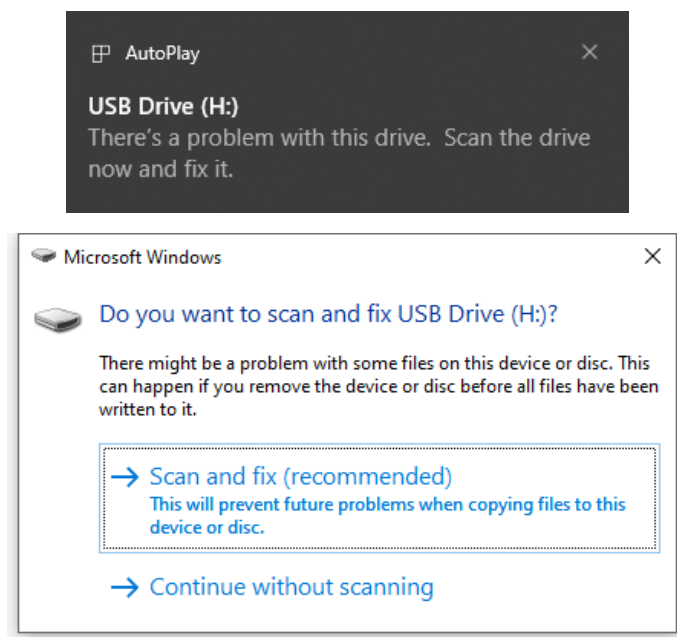
- When you are looking for an adapter of USB type C to USB type A, please choose an unpowered hub. A powered hub such as Surface Dock Station is not compatible.
- If you are using a built-in USB PowerShare in your PC, please try another port.

### 4.3 What should I do when my PC notifies USB device not recognized?



In most cases, it does not affect use. You can just ignore the prompt and find the detected USB drive in **This PC**. If the USB drive is not found, please try to Restore/Initialize the camera.

## 4.4 What should I do if my PC notifies the USB drive has a problem to be fixed?



Some Windows computers will scan a USB drive when it is connected, and show the error. Click scan and fix, Windows will confirm the drive is fine and connect to it. You can also skip scanning and find the detected USB drive in **This PC**, which does not affect use in most cases.

# Legal Information


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## About this Manual

The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the HIKMICRO website [www.hikmicrotech.com](http://www.hikmicrotech.com).

Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

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