HIKMICRO Fixed Camera

V5.5.336

Release Notes

Legal Information

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/).

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

Trademarks

HIKMICRO and other HIKMICRO's trademarks and logos are the properties of HIKMICRO in various jurisdictions.

Other trademarks and logos mentioned are the properties of their respective owners.

LEGAL DISCLAIMER

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THIS MANUAL AND THE PRODUCT DESCRIBED, WITH ITS HARDWARE, SOFTWARE AND FIRMWARE, ARE PROVIDED "AS IS" AND "WITH ALL FAULTS AND ERRORS". HIKMICRO MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE. THE USE OF THE PRODUCT BY YOU IS AT YOUR OWN RISK. IN NO EVENT WILL HIKMICRO BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES, INCLUDING, AMONG OTHERS, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, OR LOSS OF DATA, CORRUPTION OF SYSTEMS, OR LOSS OF DOCUMENTATION, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), PRODUCT LIABILITY, OR OTHERWISE, IN CONNECTION WITH THE USE OF THE PRODUCT, EVEN IF HIKMICRO HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSS.

YOU ACKNOWLEDGE THAT THE NATURE OF THE INTERNET PROVIDES FOR INHERENT SECURITY RISKS, AND HIKMICRO SHALL NOT TAKE ANY RESPONSIBILITIES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBER-ATTACK, HACKER ATTACK, VIRUS INFECTION, OR OTHER INTERNET SECURITY RISKS; HOWEVER, HIKMICRO WILL PROVIDE TIMELY TECHNICAL SUPPORT IF REQUIRED.

YOU AGREE TO USE THIS PRODUCT IN COMPLIANCE WITH ALL APPLICABLE LAWS, AND YOU ARE SOLELY RESPONSIBLE FOR ENSURING THAT YOUR USE CONFORMS TO THE APPLICABLE LAW. ESPECIALLY, YOU ARE RESPONSIBLE, FOR USING THIS PRODUCT IN A MANNER THAT DOES NOT INFRINGE ON THE RIGHTS OF THIRD PARTIES, INCLUDING WITHOUT LIMITATION, RIGHTS OF PUBLICITY, INTELLECTUAL PROPERTY RIGHTS, OR DATA PROTECTION AND OTHER PRIVACY RIGHTS. YOU SHALL NOT USE THIS PRODUCT FOR ANY PROHIBITED END-USES, INCLUDING THE DEVELOPMENT OR PRODUCTION OF WEAPONS OF MASS DESTRUCTION, THE DEVELOPMENT OR PRODUCTION OF CHEMICAL OR BIOLOGICAL WEAPONS, ANY ACTIVITIES IN THE CONTEXT RELATED TO ANY NUCLEAR EXPLOSIVE OR UNSAFE NUCLEAR FUEL-CYCLE, OR IN SUPPORT OF HUMAN RIGHTS ABUSES.

IN THE EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE APPLICABLE LAW, THE LATTER PREVAILS.

TABLE OF CONTENTS

Chapter 1 **Product and Version Information**

Version information

Item	Description
Firmware Version	V5.5.336 build 250714
Measurement Algorithm Version	V2.2.0build20250703
Web Component Version	V5.1.205 R0101 build 250711

More information

- Focus Free Box Camera
  Involved Models: QF610, QF310

- Auto-Focus Box Camera
  Involved Models: HM-TD2A37T-15/Q, HM-TD2A37T-25/Q, HM-TD2A67T-15/Q, HM-TD2A67T-25/Q

- R&D Box Camera
  Involved Models: HM-TD2C68E-25/Q

- High Temperature Box Camera
  Involved Models: HM-TD2A67H2-7/Q, HM-TD2A67H1-15/Q, HM-TD2A67H1-25/Q

- Heat Resistant Bullet Camera
  Involved Models (Non-High-Temp. Measurement): HF310, HF610
  Involved Models (High-Temp. Measurement): HM-TD2H67H1-15/Q, HM-TD2H67H1-25/Q

  Welcome to visit HIKMICRO official website for more information about HIKMICRO industrial products. https://www.hikmicrotech.com/en/industrial-products/

Chapter 2 **Focus Free Box Camera**

2.1 **New Features**

2.1.1 Fast Temperature Measurement

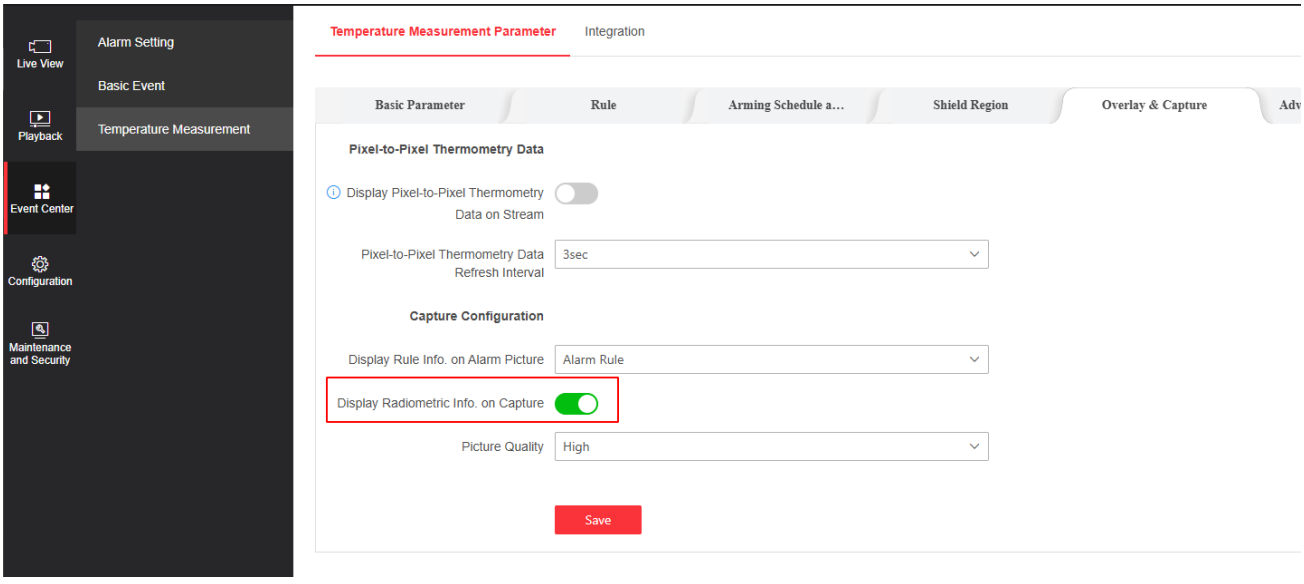
Increases the frame rate of temperature measurement to 15 fps to meet the needs of temperature measurement for moving objects in pipeline inspection scenarios.

2.1.2 Auto Snapshot with Temperature Matrix for Integration

Alarm input linkage triggers the device to capture and upload snapshots, supporting to superpose temperature matrix (unanalyzable).

Automatic snapshot triggering and reporting when high-temperature detection or sudden temperature change detection identifies an object entering the field, supporting to superpose temperature matrix (unanalyzable).

The uploaded temperature matrix can be integrated by 3rd-party integration.



2.1.3 Color Distribution

Support color distribution: Linear and Histogram.

2.1.1 HTTP ORDER Linkage Extension

Extended HTTP ORDER linkage for events such as Video Tampering and storage anomalies.

2.1.1 ONVIF Profile M Support

Supported ONVIF Profile M.

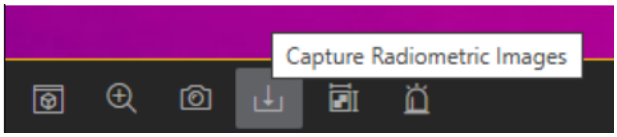
2.2 Optimization

HIKMICRO Fixed Camera has optimized to improve using experience.

2.2.1 Optimized Terms for Image Capture functions

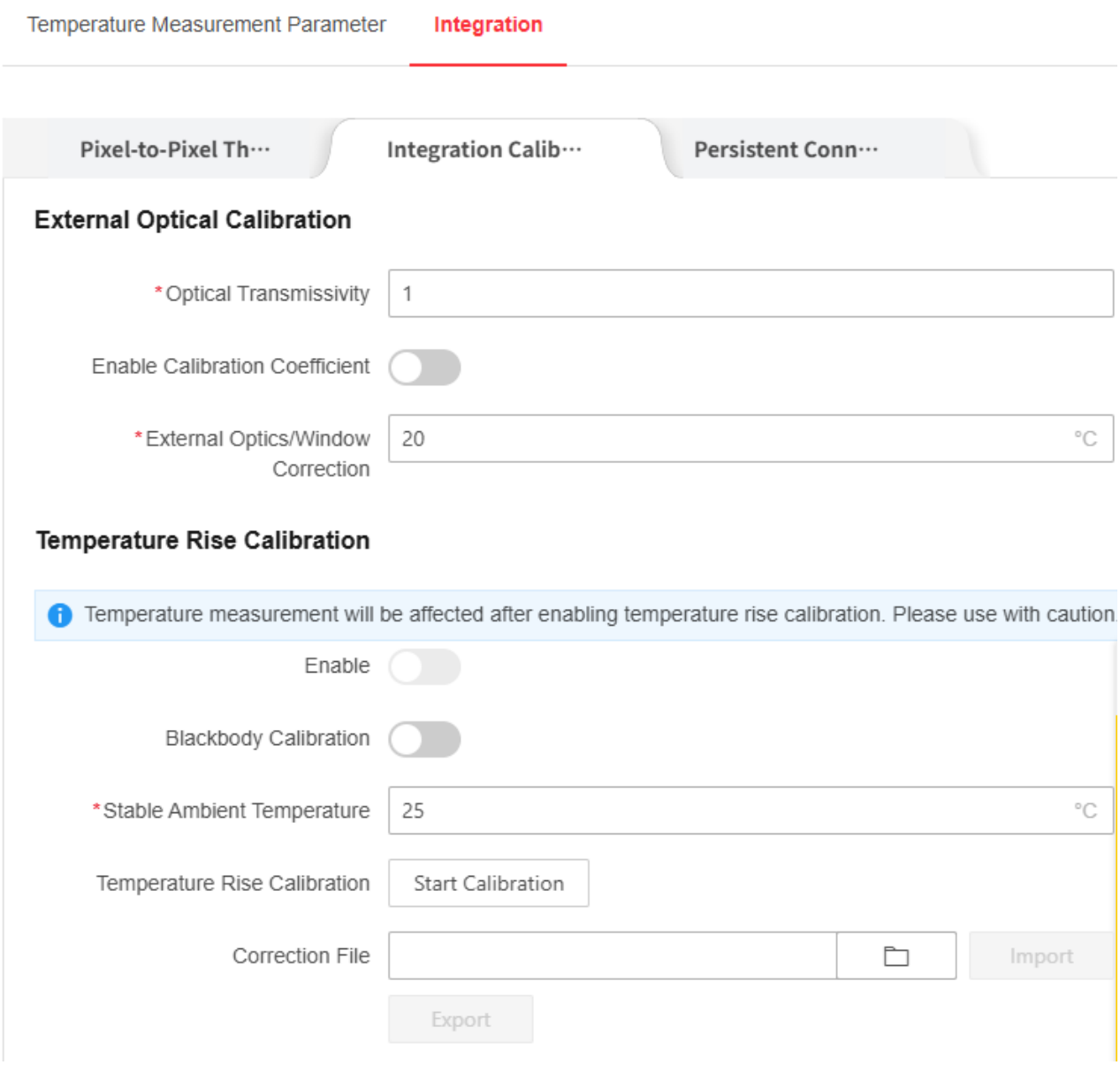
Renamed "Offline Picture" to "Capture Radiometric Images". With this function, captured images can be fully analyzed by HIKMICRO Analyzer.

Removed "Thermal Image" whose image cannot be fully analyzed. (Non-radiometric)



2.2.2 Temperature Rise Calibration

Temperature measurement will be affected after enabling this function. Please use with cautions. When the camera is placed in housing, its ambient temperature will change. As a result, measured temperature may drift from camera’s factory calibration and needs re-calibration under housing conditions with this function.



2.2.3 Temperature Measurement Capabilities

Compliant with manufacturer-defined capabilities for better integration with software client.

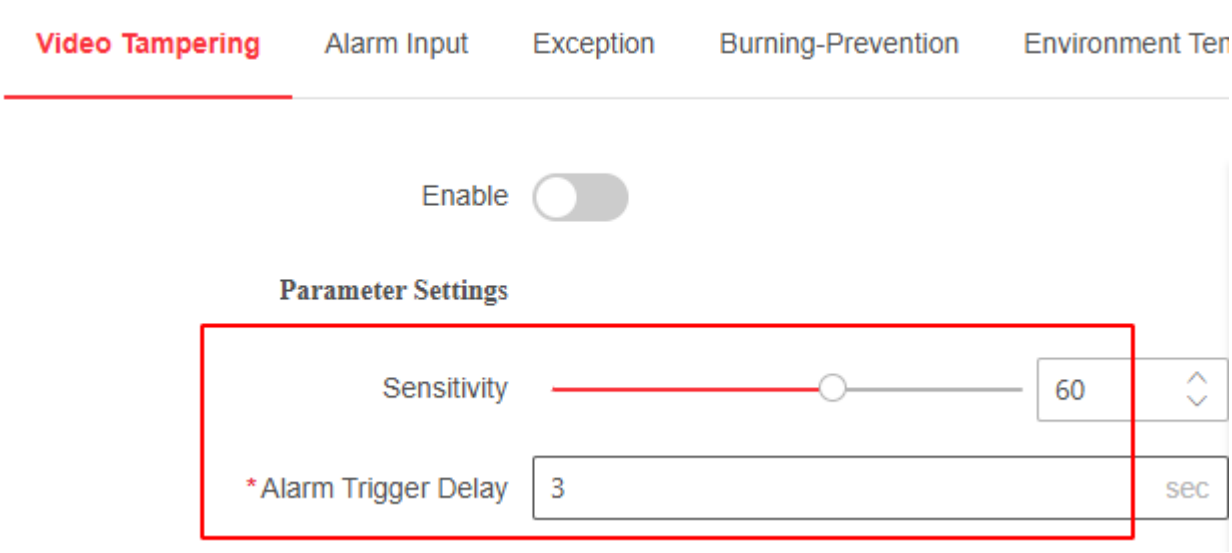
2.2.4 Improved Stability of Frame Interval

Optimized the stability of real-time raw-data and full-screen temperature-data uploads, enhancing the thermography-integration user experience.

2.2.5 Optimized Video Tampering

Support adjustment on Alarm Trigger Delay for Video Tampering

Support adjustment on Sensitivity for Video Tampering


Video Tampering
Alarm Input
Exception
Burning-Prevention
Environment Ter
Enable
Parameter Settings
Sensitivity
60
*Alarm Trigger Delay
3
sec

Chapter 3 **Auto-Focus Box Camera**

3.1 **New Features**

3.1.1 Fast Temperature Measurement

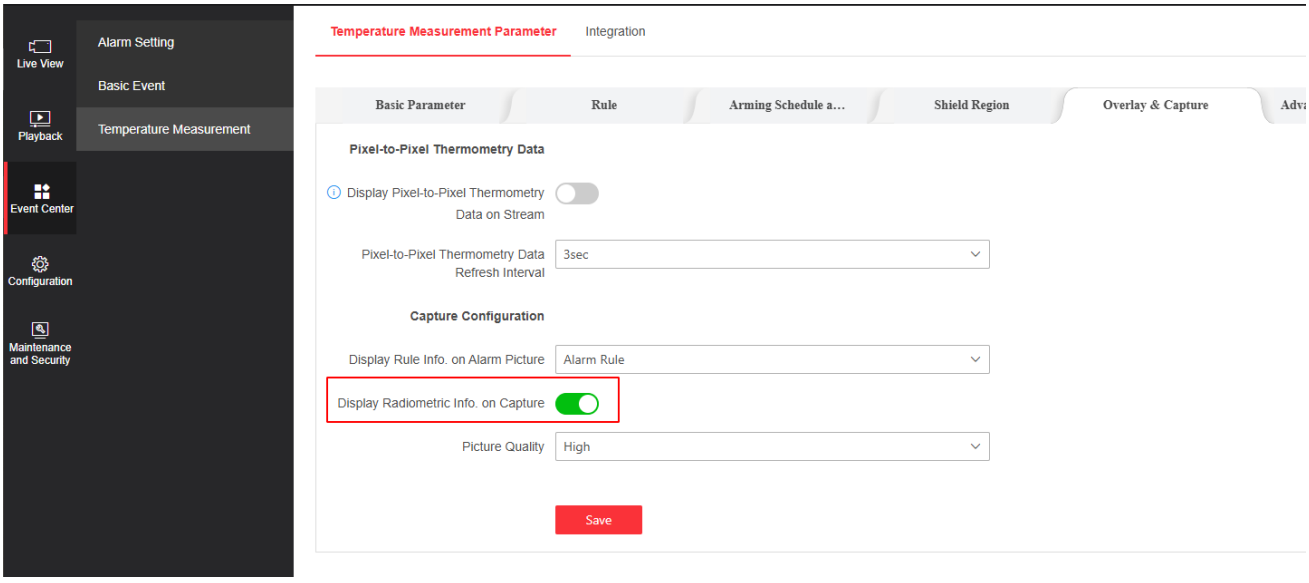
Increases the frame rate of temperature measurement to 15 fps to meet the needs of temperature measurement for moving objects in pipeline inspection scenarios.

3.1.2 Auto Snapshot with Temperature Matrix for Integration

Alarm input linkage triggers the device to capture and upload snapshots, supporting to superpose temperature matrix (unanalyzable).

Automatic snapshot triggering and reporting when high-temperature detection or sudden temperature change detection identifies an object entering the field, supporting to superpose temperature matrix (unanalyzable).

The uploaded temperature matrix can be integrated by 3rd-party integration.



3.1.3 HTTP ORDER Linkage Extension

Extended HTTP ORDER linkage for events such as Video Tampering and storage anomalies.

3.1.4 ONVIF Profile M Support

Supported ONVIF Profile M.

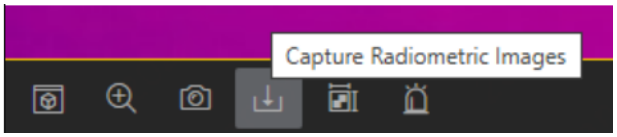
3.2 Optimization

HIKMICRO Fixed Camera has optimized to improve using experience.

3.2.1 Optimized Terms for Image Capture functions

Renamed "Offline Picture" to "Capture Radiometric Images". With this function, captured images can be fully analyzed by HIKMICRO Analyzer.

Removed "Thermal Image" whose image cannot be fully analyzed. (Non-radiometric)



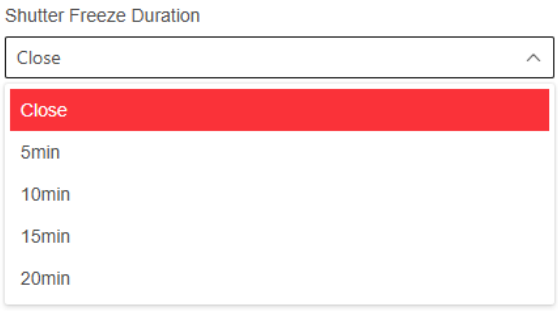
3.2.2 Memorizing Manual Focus

Support to turn on or off memorizing manual focus. When it is turning on, after the device is powered off, the focal plane at the image would move to the set place before the device is off, to avoid big change on clearance before and after.

3.2.3 Support Setting Time Window for Auto Image Calibration

Support to set a time window, Shutter Freeze Duration. During the time, device would not automatically calibrate the image with the shutter and not automatically freeze the image.

Notes: Image and temperature measurement performance may be affected as goes by. Auto image calibration with shutter can reduce the impact.



3.2.4 Temperature Measurement Capabilities

Compliant with manufacturer-defined capabilities for better integration with software client.

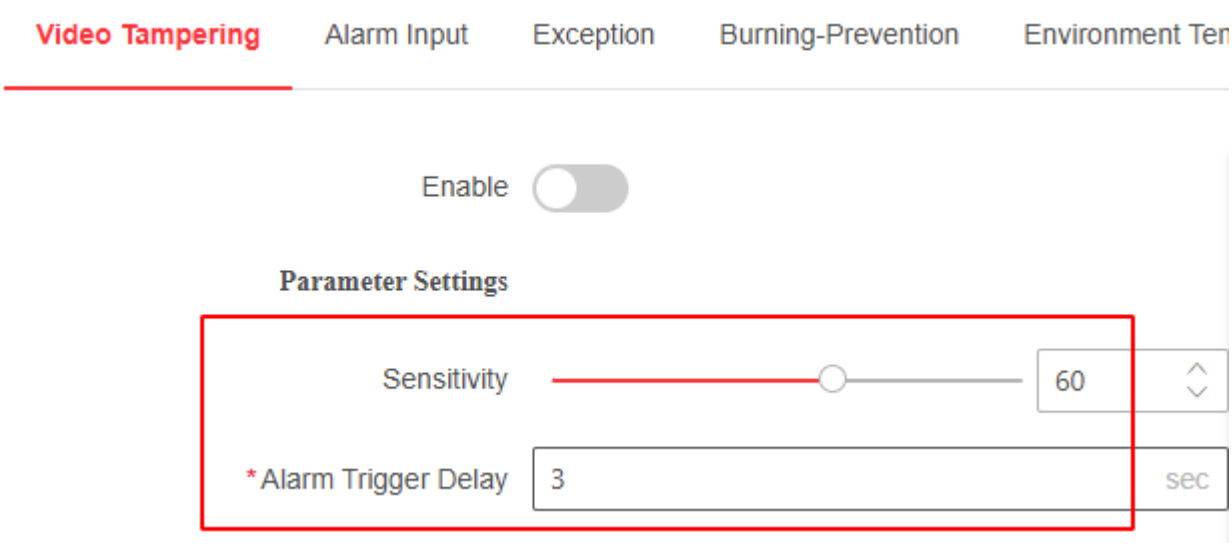
3.2.5 Improved Stability of Frame Interval

Optimized the stability of real-time raw-data and full-screen temperature-data uploads, enhancing the thermography-integration user experience.

3.2.6 Optimized Video Tampering

Support adjustment on Alarm Trigger Delay for Video Tampering

Support adjustment on Sensitivity for Video Tampering



Chapter 4 R&D Box Camera

4.1 New Features

4.1.1 ONVIF Profile M Support

Supported ONVIF Profile M.

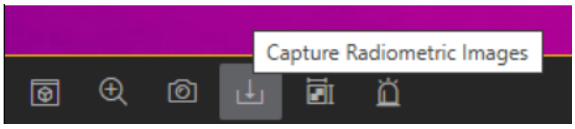
4.2 Optimization

HIKMICRO Fixed Camera has optimized to improve using experience.

4.2.1 Optimized Terms for Image Capture functions

Renamed "Offline Picture" to "Capture Radiometric Images". With this function, captured images can be fully analyzed by HIKMICRO Analyzer.

Removed "Thermal Image" whose image cannot be fully analyzed. (Non-radiometric)



4.2.1 Temperature Measurement Capabilities

Compliant with manufacturer-defined capabilities for better integration with software client.

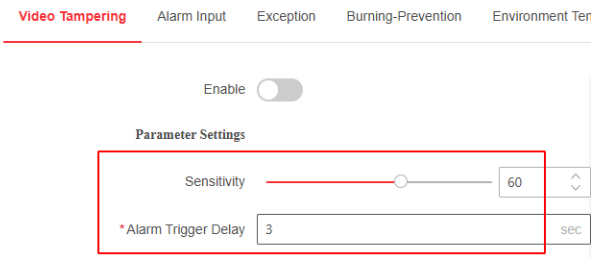
4.2.2 Improved Stability of Frame Interval

Optimized the stability of real-time raw-data and full-screen temperature-data uploads, enhancing the thermography-integration user experience.

4.2.3 Optimized Video Tampering

Support adjustment on Alarm Trigger Delay for Video Tampering

Support adjustment on Sensitivity for Video Tampering



Chapter 5 High Temperature Box Camera

5.1 New Features

5.1.1 Fast Temperature Measurement

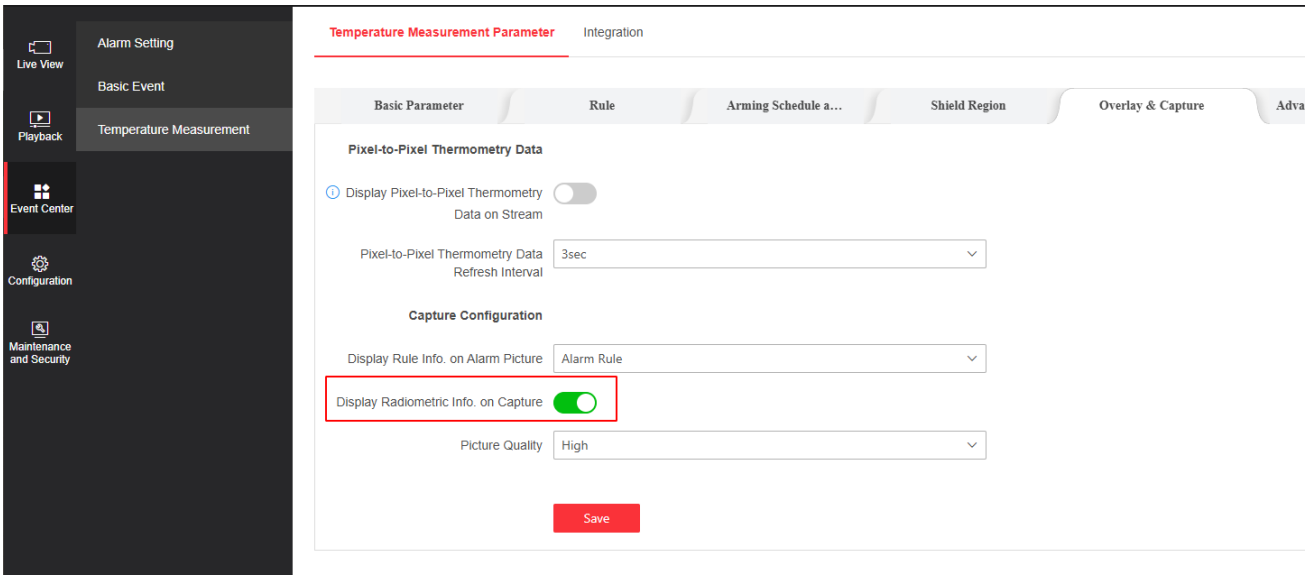
Increases the frame rate of temperature measurement to 15 fps to meet the needs of temperature measurement for moving objects in pipeline inspection scenarios.

5.1.2 Auto Snapshot with Temperature Matrix for Integration

Alarm input linkage triggers the device to capture and upload snapshots, supporting to superpose temperature matrix (unanalyzable).

Automatic snapshot triggering and reporting when high-temperature detection or sudden temperature change detection identifies an object entering the field, supporting to superpose temperature matrix (unanalyzable).

The uploaded temperature matrix can be integrated by 3rd-party integration.



5.1.3 HTTP ORDER Linkage Extension

Extended HTTP ORDER linkage for events such as Video Tampering and storage anomalies.

5.1.4 ONVIF Profile M Support

Supported ONVIF Profile M.

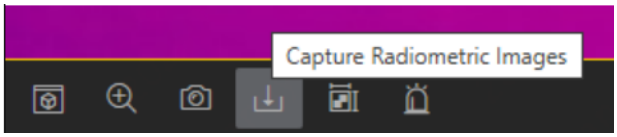
5.2 Optimization

HIKMICRO Fixed Camera has optimized to improve using experience.

5.2.1 Optimized Terms for Image Capture functions

Renamed "Offline Picture" to "Capture Radiometric Images". With this function, captured images can be fully analyzed by HIKMICRO Analyzer.

Removed "Thermal Image" whose image cannot be fully analyzed. (Non-radiometric)



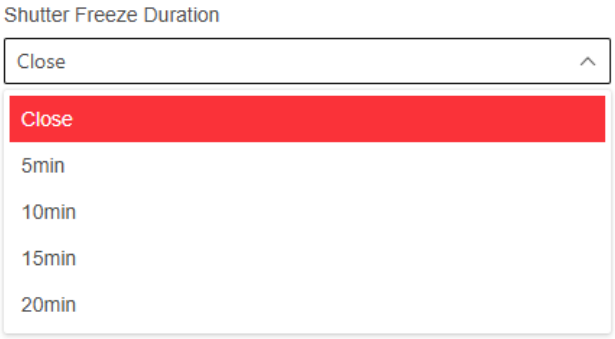
5.2.2 Memorizing Manual Focus

Support to turn on or off memorizing manual focus. When it is turning on, after the device is powered off, the focal plane at the image would move to the set place before the device is off, to avoid big change on clearance before and after.

5.2.3 Support Setting Time Window for Auto Image Calibration

Support to set a time window, Shutter Freeze Duration. During the time, device would not automatically calibrate the image with the shutter and not automatically freeze the image.

Notes: Image and temperature measurement performance may be affected as goes by. Auto image calibration with shutter can reduce the impact.



5.2.4 Temperature Measurement Capabilities

Compliant with manufacturer-defined capabilities for better integration with software client.

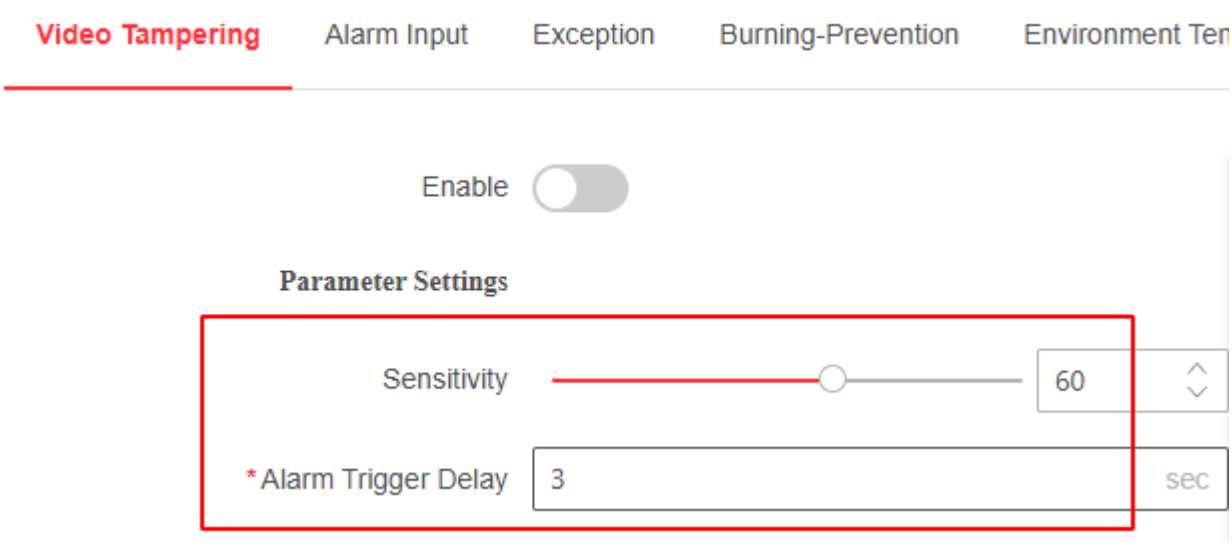
5.2.5 Improved Stability of Frame Interval

Optimized the stability of real-time raw-data and full-screen temperature-data uploads, enhancing the thermography-integration user experience.

5.2.6 Optimized Video Tampering

Support adjustment on Alarm Trigger Delay for Video Tampering

Support adjustment on Sensitivity for Video Tampering



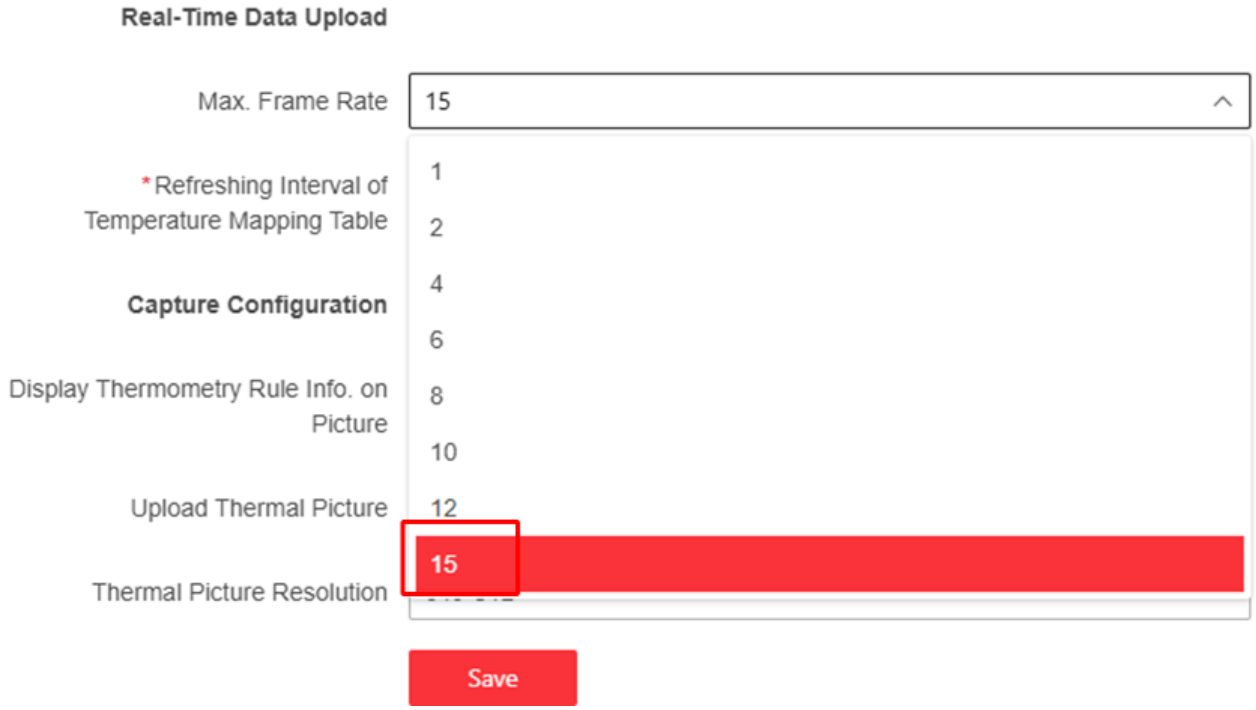
Chapter 6 Heat Resistant Bullet Camera

Involved Models (Non-High-Temp. Measurement): HF310, HF610
Involved Heat Resistant Bullet Camera Models (High-Temp. Measurement): HM-TD2H67H1-15/Q, HM-TD2H67H1-25/Q

6.1 New Features

6.1.1 Fast Temperature Measurement

Increases the frame rate of temperature measurement to 15 fps to meet the needs of temperature measurement for moving objects in pipeline inspection scenarios.

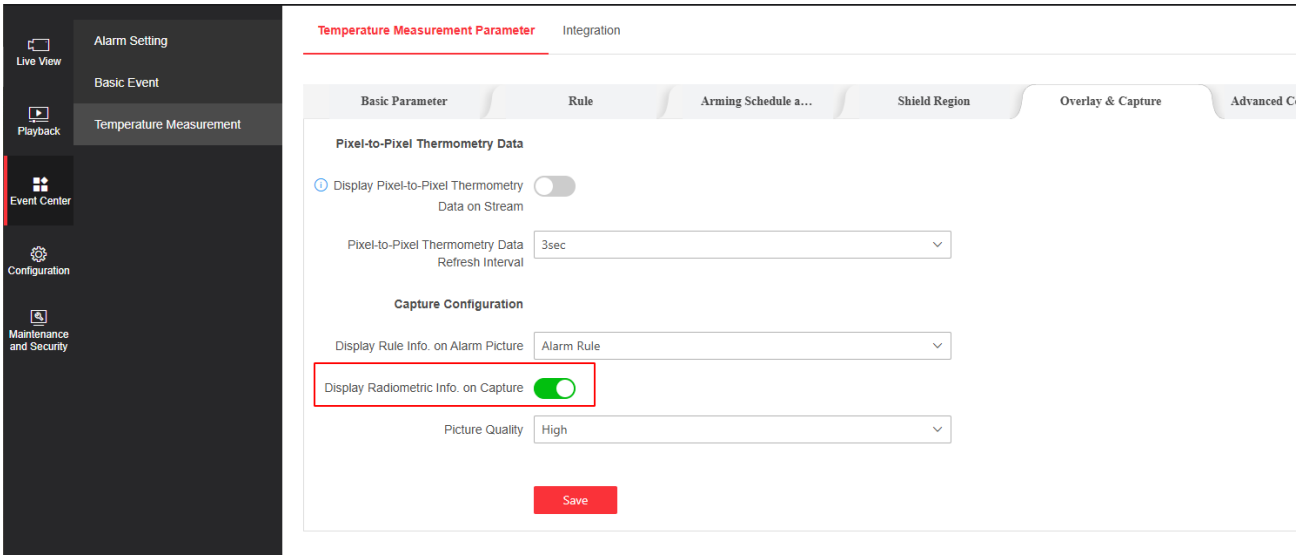


6.1.2 Auto Snapshot with Temperature Matrix for Integration

Alarm input linkage triggers the device to capture and upload snapshots, supporting to superpose temperature matrix (unanalyzable).

Automatic snapshot triggering and reporting when high-temperature detection or sudden temperature change detection identifies an object entering the field, supporting to superpose temperature matrix (unanalyzable).

The uploaded temperature matrix can be integrated by 3rd-party integration.



6.1.3 HTTP ORDER Linkage Extension

Extended HTTP ORDER linkage for events such as Video Tampering and storage anomalies.

6.1.4 ONVIF Profile M Support

Supported ONVIF Profile M.

6.1.5 Color Distribution

Involved Heat Resistant Bullet Camera Models (Non-High-Temp. Measurement): HF310, HF610 only

Support color distribution: Adaptive, Linear, and Histogram.

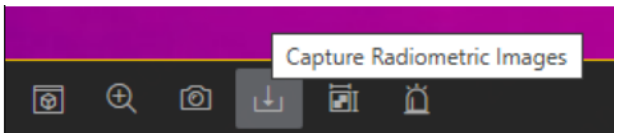
6.2 Optimization

HIKMICRO Fixed Camera has optimized to improve using experience.

6.2.1 Optimized Terms for Image Capture functions

Renamed "Offline Picture" to "Capture Radiometric Images". With this function, captured images can be fully analyzed by HIKMICRO Analyzer.

Removed "Thermal Image" whose image cannot be fully analyzed. (Non-radiometric)



6.2.2 Temperature Measurement Capabilities

Compliant with manufacturer-defined capabilities for better integration with software client.

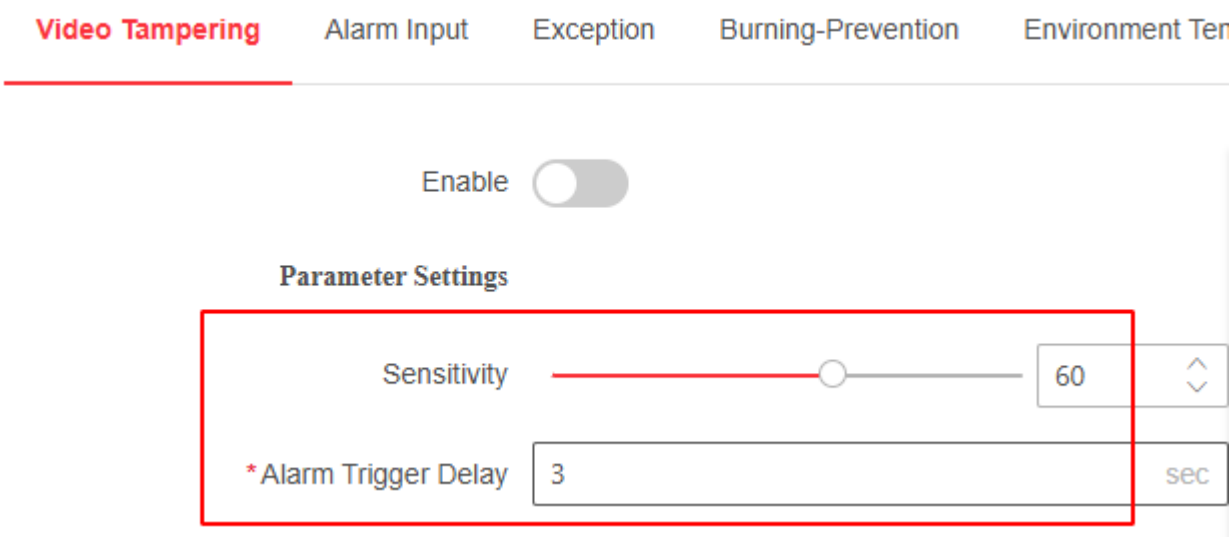
6.2.3 Improved Stability of Frame Interval

Optimized the stability of real-time raw-data and full-screen temperature-data uploads, enhancing the thermography-integration user experience.

6.2.4 Optimized Video Tampering

Support adjustment on Alarm Trigger Delay for Video Tampering

Support adjustment on Sensitivity for Video Tampering

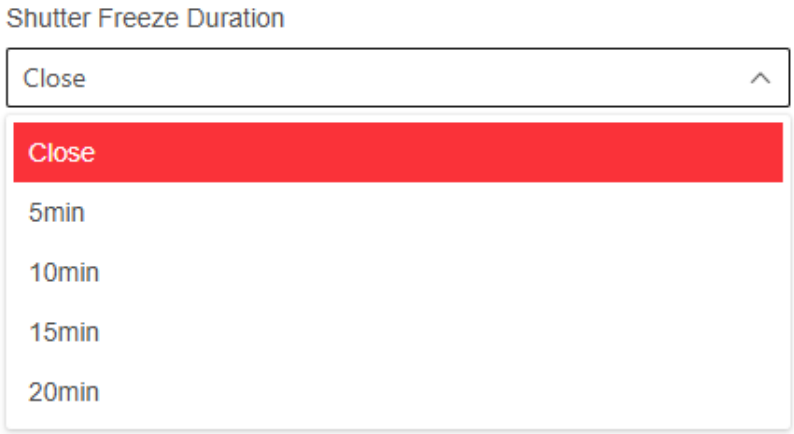


6.2.5 Support Setting Time Window for Auto Image Calibration

Involved Heat Resistant Bullet Camera Models (High-Temp. Measurement): HM-TD2H67H1-15/Q, HM-TD2H67H1-25/Q only

Support to set a time window, Shutter Freeze Duration. During the time, device would not automatically calibrate the image with the shutter and not automatically freeze the image.

Notes: Image and temperature measurement performance may be affected as goes by. Auto image calibration with shutter can reduce the impact.



HIKMICRO

See the World in a New Way