New Features in ibaCapture v5.6.0

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1 Compatibility Notes

1.1 Supported Windows Operating Systems

Microsoft officially ended support for Windows 10 in October 2025.

There are, however, LTSC (Long-Term Servicing-Channel) variants of Windows 10 which will continue to receive updates.

	Main support until	Security support until
Windows 10 IoT Enterprise LTSC 2019	2024-01-09	2029-01-09
Windows 10 IoT Enterprise LTSC 2021	2027-01-12	2032-01-13

Software products from iba will continue to be supported for these Windows 10 variants, until their security support ends.

1.2 Discontinuation of 32-bit versions for ibaCapture

ibaCapture v5.6 will be the last main version with support for the 32-bit version of Windows 10.

This change will be made to the components

- ibaCapture Manager
- ibaCapture Server
- ibaCapture GigE-Encoder

ibaCapture Player will remain available in a 32-bit version for integration in ibaAnalyzer and ibaPDA.

1.3 Termination of Support for Common Vision Blox

ibaCapture v5.6 will be the last main version with support for Common Vision Blox as a GenICam SDK.

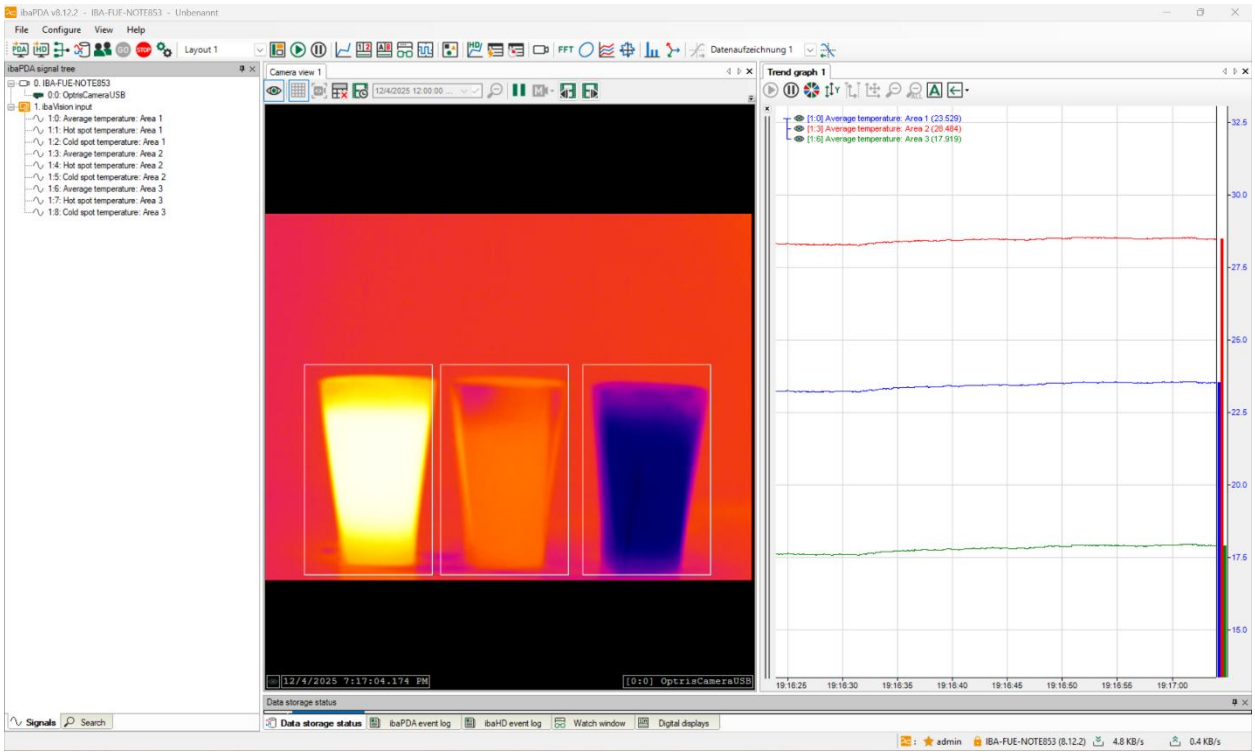
If you operate an ibaCapture system that uses the camera type “Stemmer CVB”, a manual migration of the configuration to use “Pleora eBUS SDK” is required before the system can be updated to a newer version of ibaCapture.

To migrate your configuration, a license for Pleora eBUS SDK is required. Please contact your local iba dealer to obtain this license or to request assistance with mentioned migration.

2 Support for Optris Thermal Cameras

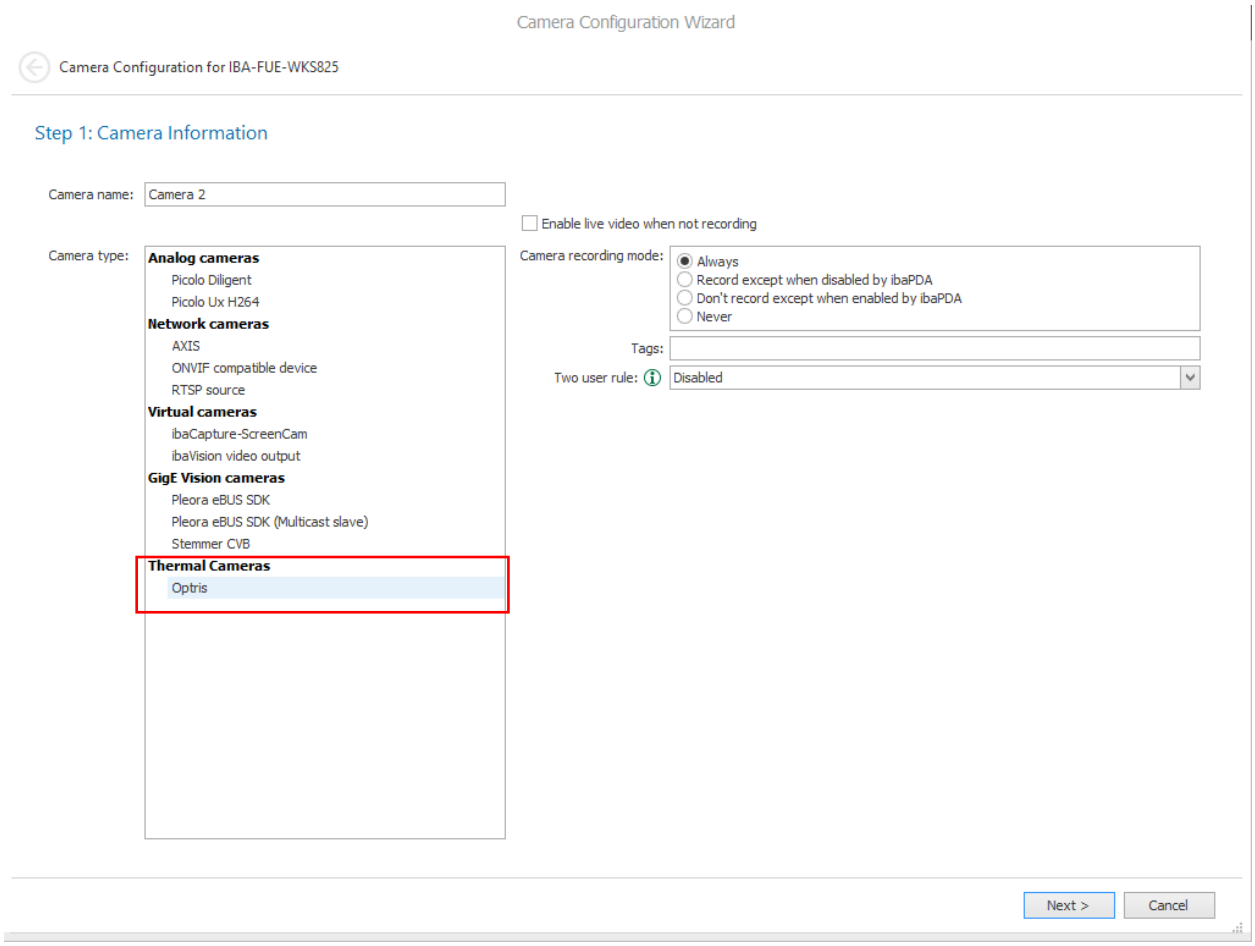
Optris GmbH manufactures infrared cameras for point and area temperature measurements in industrial environments. ibaCapture now supports Optris devices.

The ibaCapture server stores the false-color thermal images generated by the camera. Additionally, thermal data can be transmitted to an ibaPDA instance and added as analog input signals.

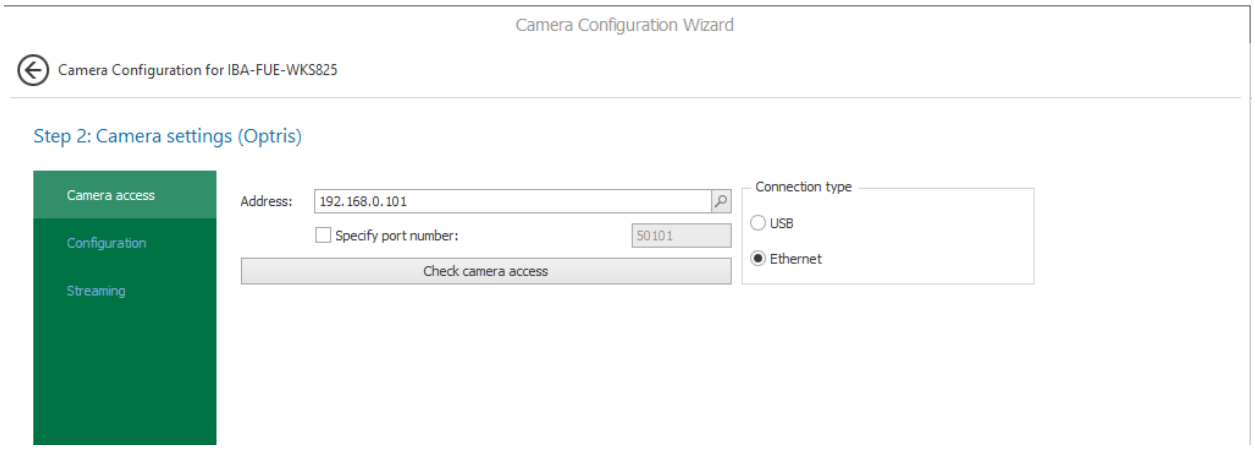

ibaPDA v8.12.2 - IBA-FUE-NOTE853 - Unbenannt
File Configure View Help
Layout 1
Datenaufzeichnung 1
ibaPDA signal tree
0: IBA-FUE-NOTE853
0:0: OptrisCameraUSB
1: ibaVision input
1:0: Average temperature: Area 1
1:1: Hot spot temperature: Area 1
1:2: Cold spot temperature: Area 1
1:3: Average temperature: Area 2
1:4: Hot spot temperature: Area 2
1:5: Cold spot temperature: Area 2
1:6: Average temperature: Area 3
1:7: Hot spot temperature: Area 3
1:8: Cold spot temperature: Area 3
Camera view 1
12/4/2025 7:17:04.174 PM
[0:0] OptrisCameraUSB
Trend graph 1
[1:0] Average temperature: Area 1 (23.529)
[1:3] Average temperature: Area 2 (28.484)
[1:6] Average temperature: Area 3 (17.919)
32.5
30.0
27.5
25.0
22.5
20.0
17.5
15.0
19:16:25
19:16:30
19:16:35
19:16:40
19:16:45
19:16:50
19:16:55
19:17:00
Signals
Search
Data storage status
Data storage status
ibaPDA event log
ibaHD event log
Watch window
Digital displays
admin
IBA-FUE-NOTE853 (8.12.2)
4.8 KB/s
0.4 KB/s

2.1 Adding Optris Camera to ibaCapture

The Camera Configuration Wizard now includes a dedicated section for thermal cameras where *Optris* can be selected.



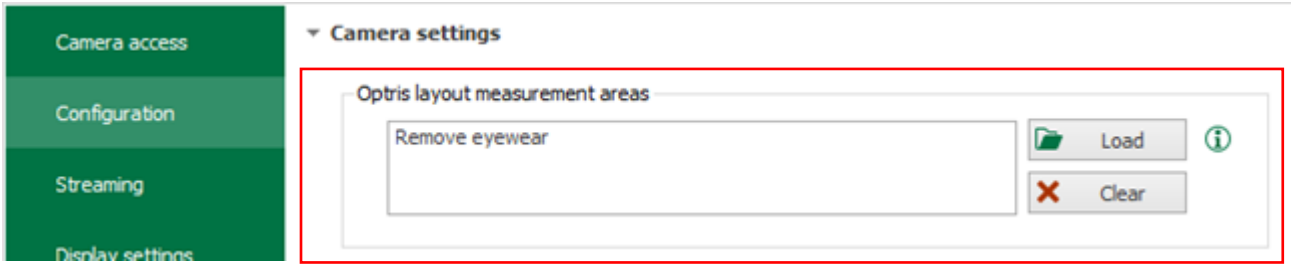
Select the type of connection interface and provide the device's network address. For USB devices, choose the Optris device from the drop-down list. Perform a connection check by clicking *Check Camera Access* to ensure the device is accessible.



2.2 Camera Settings

Configuring Measurement Areas

Custom measurement areas can be defined for each camera by importing layout files from the *Optris PIX Connect* software. Export layout files using the procedure described in the *PIX Connect* software manual and load these files into ibaCapture via the *Load Optris layout* button.



All measurement areas from the file will appear in the list box. For each area, ibaCapture will automatically generate ibaPDA signals with:

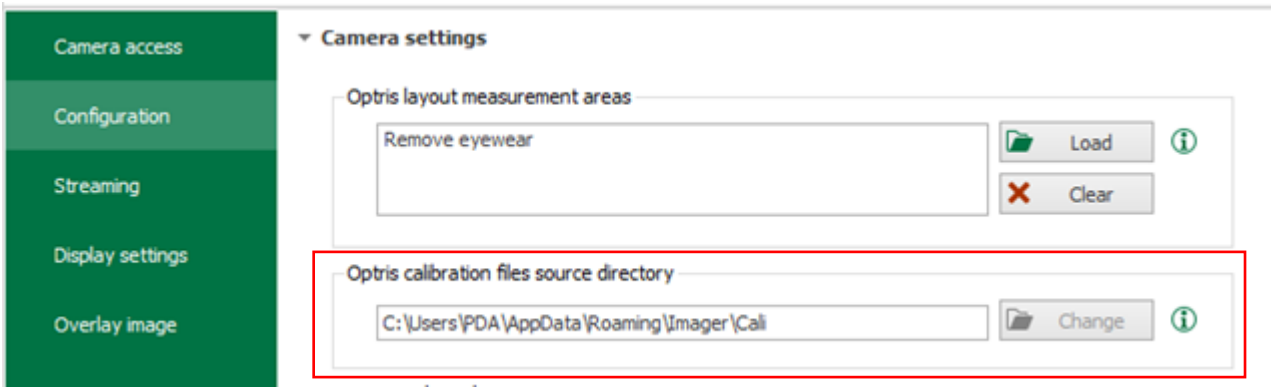
- Average temperature
- Hot spot temperature
- Cold spot temperature

for that area.

Calibration Files

Each camera requires calibration files provided by *PIX Connect*. When the camera is connected and *PIX Connect* is started, the software will automatically download all necessary files.

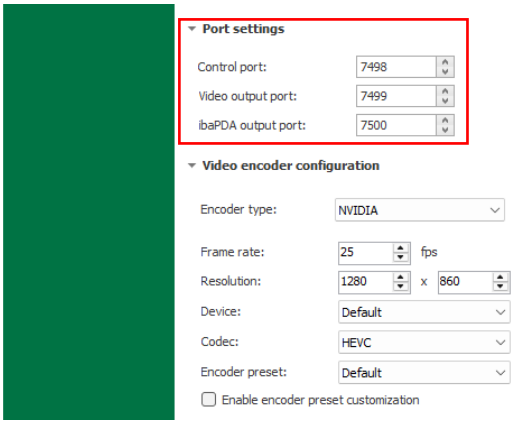
ibaCapture attempts to locate the correct directory of these files and pre-fills the path in the configuration dialog. This path can be modified if needed.



Port Settings

The Optris frame grabber runs as a separate process and uses three configurable ports:

- Control port: Communication with ibaCapture server
- Video port: Video stream handling
- ibaPDA port: Thermal data output to ibaPDA

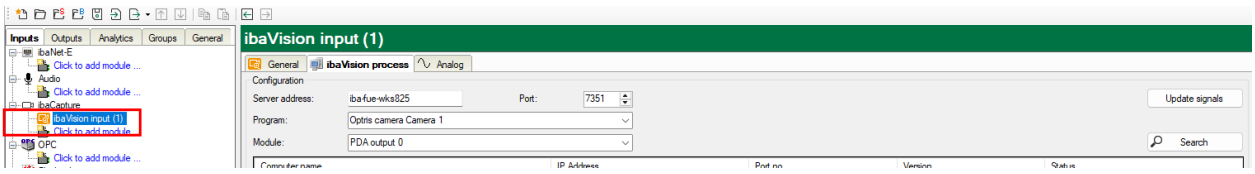


2.3 Data Outputs for ibaPDA

Once the camera has been added and configured in ibaCapture, thermal data signals can be added into ibaPDA as ibaVision inputs. No ibaVision installation or ibaVision licensing is required. To add signals either:

- Perform a server search and select the correct ibaVision server or
- Set the port to 7351 and enter the correct server address

Optris outputs will appear as ibaVision instances with version “v6.2.0” in the list to distinguishing them from standard ibaVision outputs.

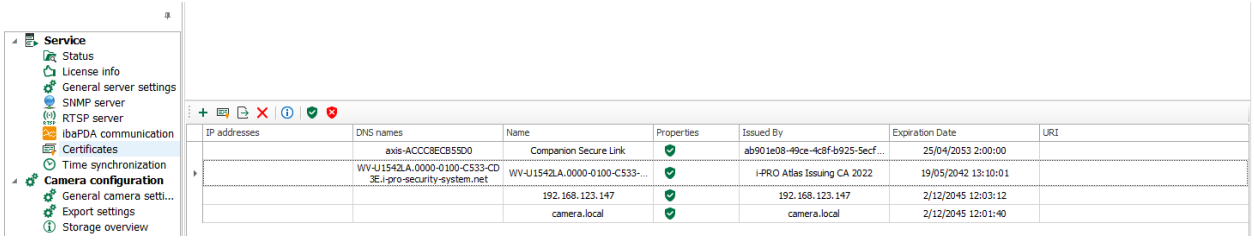


The false-color video image can be added as a regular ibaCapture camera input.

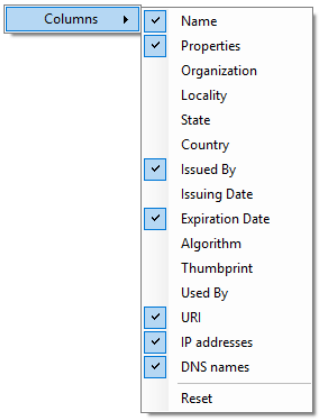
3 Axis & ONVIF Https Support

3.1 Certificates

The certificates section in ibaCapture can be used to upload self-signed (root) certificates to make an https connection with Axis or ONVIF cameras.
The following figure shows the integration in the ibaCapture Manager as an example.
Each row refers to one certificate.



The columns: *IP addresses, DNS names, Name, Properties, Issued By and Expiration Date* are displayed by default. More columns can be added to the table view using the certificate table context menu.



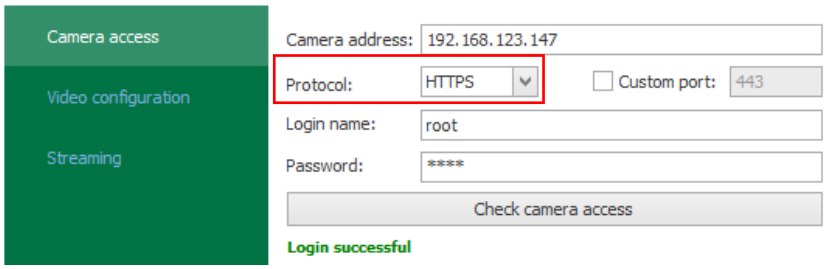
The *Name* column holds the name of a certificate. Different certificates may have the same name, thus it is not unique. Only the fingerprint of a certificate is unique.

The symbols in the *Properties* column have the following meaning:

Symbol	Function
	The certificate is trusted as long as it has not expired.
	This certificate is not trusted.
	A private key for this certificate is available.
	This certificate is invalid. If the certificate has expired, the expiration date will be highlighted in red.

3.2 Camera Configuration

For ONVIF and Axis cameras, it is possible to change the Protocol to HTTPS in the *Camera access*. When the certificate is invalid or still needs to be added the error "*Invalid Certificate or TLS version*" will be shown.
Example of an https configuration for an Axis camera:



4 Logging Configuration for Debug Messages

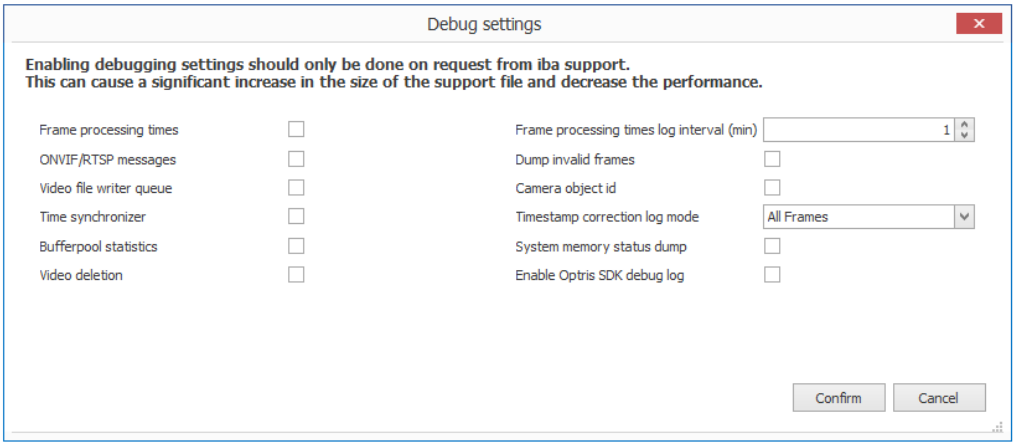
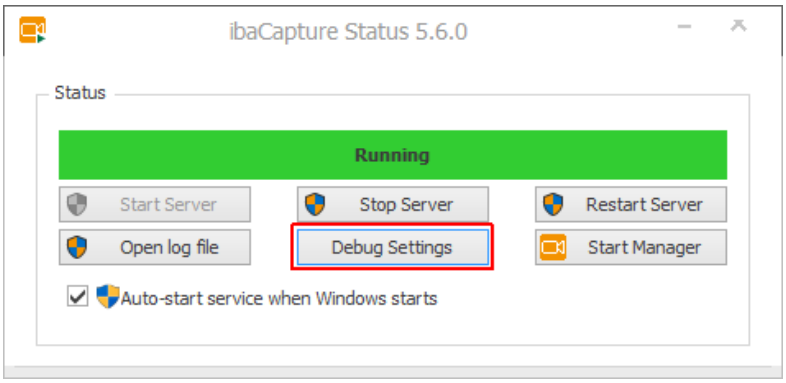
With ibaCapture v5.6.0, a central configuration is available to control various debug logging functionalities that have been used in the past.

In earlier versions of ibaCapture, some of these messages could not be enabled or disabled at all, while those that could be configured had to be set in different places with different types of syntax.

This change improves ibaCapture in two main aspects:

- Debug logging can be controlled from a standard configuration dialog and does not require stopping the service or editing various text/configuration files
- The debug logging that was always enabled caused a significant amount of log messages, which in turn creates large log files.

The logging configuration is available in two places. There is a general note that enabling any debug logging should be done after consulting with iba support.



These settings can be accessed on the Status page in the ibaCapture Server configuration and from the ibaCapture Server Status application.