



ibaCapture v5.3.0

New Features

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iba AG

Contents

1	General remarks.....	2
1.1	Supported Windows operating systems	2
1.2	Deprecated features & software support.....	2
2	Transcoding video during export	3
2.1	Configuring the export settings	3
2.1.1	Encoding profiles	4
2.1.2	Timestamp appearance	4
2.3	Export dialog.....	4
3.	UI improvements	5

1 General remarks

1.1 Supported Windows operating systems

For **Windows 8.1 (x86/x64)**, **Windows Server 2012 (x64)** and **Windows Server 2012 R2 (x64)** Microsoft ended the Extended Support period on Jan 10, resp. Oct 10, 2023. No security updates are provided by Microsoft anymore since then.

Although installation is technically still possible, ibaCapture v5.3.0 and higher no longer support these operating systems. The possibility to install on these operation systems can be omitted without any further notice.

The following operating systems are currently supported:

- Windows 10 (x86/x64)
- Windows 11 (x64)
- Windows Server 2016 (x64)
- Windows Server 2019 (x64)
- Windows Server 2022 (x64)

1.2 Deprecated features & software support

The Matrox Imaging Library SDK is no longer supported for GigE Vision camera sources. We recommend switching to Pleora eBUS as the GigE-SDK for affected cameras. As there are different possible configurations to consider, please contact your local iba sales office to create an individual migration plan for each affected system.

If ibaCapture is used alongside ibaPDA on the same system to view video or generate image triggers, ibaPDA v8.0 or higher is now required. Older ibaPDA versions will not be able to use the Camera View correctly.

Starting with ibaPDA v8.4, all required ibaCapture components are included in ibaPDA. Installing ibaCapture separately is no longer required.

2 Transcoding video during export

When exporting video to a file, ibaCapture can now transcode the video into a different format & resolution. This can be used to archive recordings in a more compact format (e.g., a lower resolution, bitrate or with the more efficient H265 encoding).

Transcoded ibaCapture-ScreenCam video will not require the special ibaHMI filter for playback of the files. The resulting files can e.g., be replayed in VLC media player.

Transcoding also makes it possible to export from cameras that have a privacy mask configured, which will be written to the exported video file.

Since transcoding happens on the client side, the system that is initiating the export should have an NVIDIA or Intel GPU available.

2.1 Configuring the export settings

To use the transcoding feature, an encoding profile must be created. These profiles are stored on the ibaCapture server and can be configured in the server configuration under **Export settings**.

The screenshot shows the ibaCapture Manager 5.3.0-beta.9999 interface. The 'Camera configuration' section is active, showing a table of encoding profiles. The 'Export settings' section is highlighted in the left sidebar.

Name	Width	Height	Encoder	Codec	Bit rate (kbps)	Frame rate	GOP	Quality	Enabled cameras
Large H264	1920	<Auto>	<Auto>	H264	1536	<keep original>	60	10	✓ Camera 2
Medium H264	1280	<Auto>	<Auto>	H264	1024	<keep original>	60	10	
Small H264	640	<Auto>	<Auto>	H264	512	<keep original>	60	10	

Below the table, there are buttons for 'Add', 'Remove', 'Import', and 'Export'. The 'Timestamp appearance' section shows settings for alignment, format, color, font, and size. The 'Format' field is set to '<CameraName> - <dtMM/dd/yyyy hh:mm:ss ff tt>'. The 'Preview' field shows 'North Exit 05/02/2023 04:23:10.72 PM'.

2.1.1 Encoding profiles

Each encoding profile has a **Width/Height**, **Encoder** (NVIDIA or Intel SDK), **Codec**, **Frame rate**, **GOP**, and **Quality** setting. Most of these settings can also be left on '<Auto>' (ibaCapture will automatically pick an appropriate value) or set to '<Keep original>' (they will be left unchanged from the source video).

The **Enabled cameras** list allows to enable or disable the currently selected profile for specific cameras. Newly added cameras are enabled for all profiles by default.

2.1.2 Timestamp appearance

The appearance of the timestamp can be customized in the bottom part. Currently the screen **Alignment**, **Color**, **Font**, **Format** and **Size** are changeable.

The content of the timestamp text can be changed in the **Format** field. The **Preview** field shows how the timestamp will appear in the encoded video. In the below example, the variable "<CameraName>" will be replaced with the actual camera name during encoding. The variable "<dt:(...)>" will be replaced by the formatted timestamp.

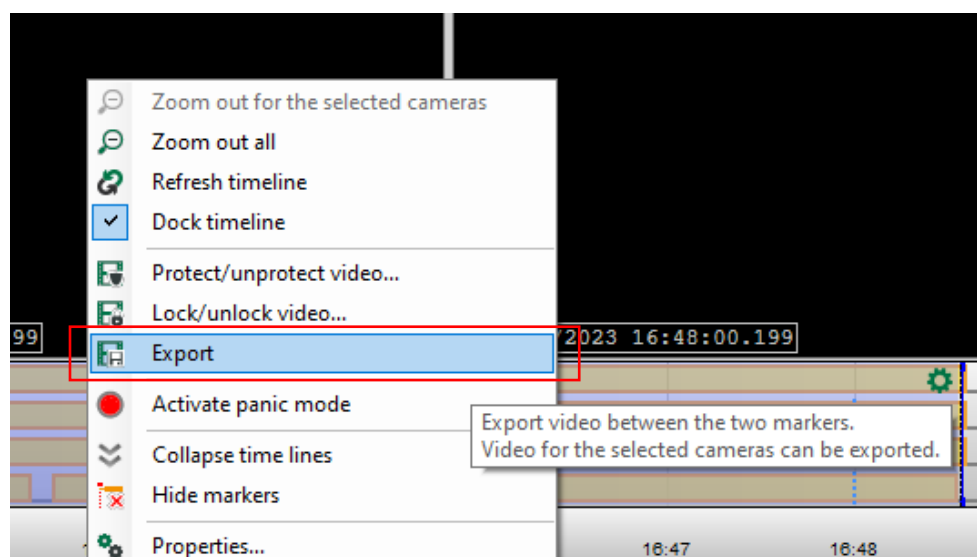
Timestamp appearance

Alignment:	TopLeft	Format:	<CameraName> <dt:MM/dd/yyyy hh:mm:ss.ff tt>	Reset	
Color:		Preview:	North Exit 05/02/2023 04:23:10.72 PM		
Font:	Courier New	MM:	Month	HH:	Hours(24h format)
Size:	Small	dd:	Day	hh:	Hours(12h format)
		yyyy:	Year	mm:	Minutes
				ss:	Seconds
				fff:	Milliseconds
				tt:	AM/PM

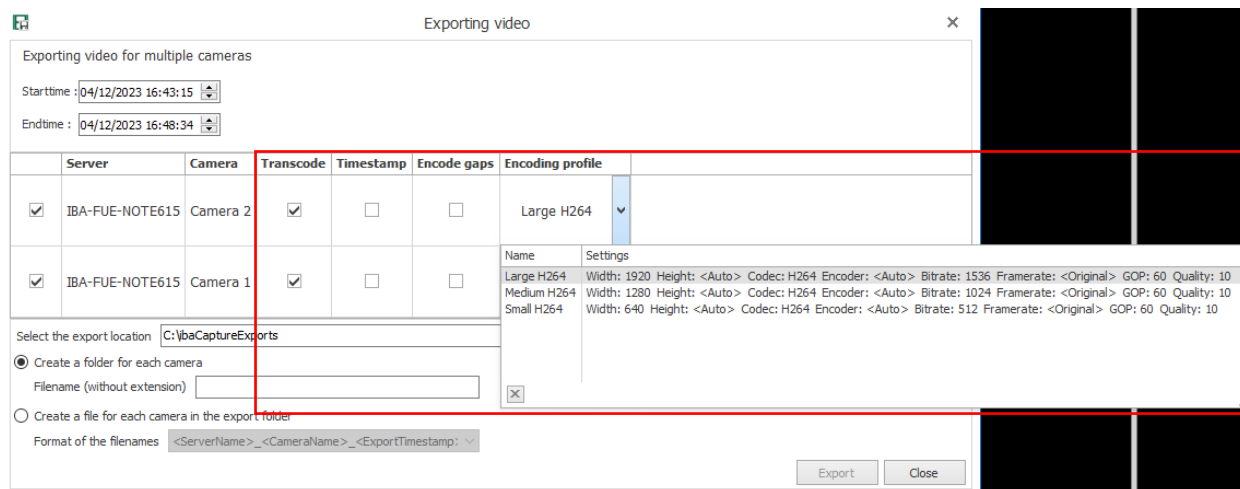
<CameraName>: Camera name

2.3 Export dialog

An export can be started by right clicking on a camera view and selecting Export->Video or by enabling markers in the timeline and right clicking on the marked section.



In the export grid, **Transcoding** can be enabled for each camera individually. Once enabled, the columns **Timestamp**, **Encode gaps** and **Encoding profile** are unlocked.



Selecting **Timestamp** will add a timestamp to the encoded video, using the configured timestamp settings for this server.

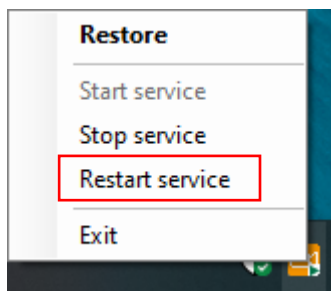
Selecting **Encode gaps** will encode video gaps as frames into the file, including a possible timestamp. If this is disabled, video gaps will be added as skips in the file.

In the **Encoding profile** column one of the previously configured profiles on the server can be selected. Clicking on the grid cell opens a dropdown with a summary of the selectable profiles for this camera.

When exporting from a pre-v5.3 server version, encoding profiles can not be configured. Instead, three default profiles will be provided for selection. These cannot be modified.

3. UI improvements

The ibaCapture server can now be restarted from the tray icon.



Newly added cameras will now be shown with a special status, instead of as disabled.

Camera name:

Camera status: ☒ Enabled

Camera type:

Analog cameras

Picolo Diligent

Picolo Ux H264

Network cameras

AXIS

ONVIF compatible device

RTSP source

Virtual cameras

ibaCapture-ScreenCam

ibaVision video output

GigE Vision cameras

Pleora eBUS SDK

Pleora eBUS SDK (Multicast slave)

Stemmer CVB

Camera id on server: 4

☐ Enable live video when not recording

Camera recording mode:

☒ Always

☐ Record except when disabled by ibaPDA

☐ Don't record except when enabled by ibaPDA

☐ Never

StatusDiagnosticsPreview

Camera information

Camera name

Camera status

New camera: configuration has not been applied yet

Continuous recording

Protected recording

Main stream

Alternative stream 1

Alternative stream 2

Video information

Segments:

Files

Start time