Motion Inspector/Pad
What's new
Version 1.06.02

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1. Overview

This document only lists a short summary of additions, improvements and changes in the GUI between Motion Inspector/Pad versions.

2. What's new

2.1. Time Stamp

Time stamp can be added to playback images. To enable configuration, click the clock button on playback bottom bar of Motion Inspector or Motion Viewer.

Items that can be added to time stamp are listed below.

- **Date:** recording date.

- **Time:** recording time.
- **Camera name:** the name of the camera.
- **Acquisition name**: name of the folder where the sequence is saved (MV only).
- **Serial number**: the camera serial number.
- **IP address**: the camera IP address.
- **Resolution**: the width and the height of the image.
- **Frame Index:** the index of current image (absolute or relative to trigger frame).
- **Fps and Exposure:** values of rate and exposure.
- **Time from trigger**: elapsed time from the trigger frame. The number of digits is configurable. You may either display in seconds with up to 6 decimal digits or in milliseconds with up to 3 decimal digits.
- **Time from start:** the time elapsed from the start of the acquisition.
- **IRIG/GPS/PTP**: IRIG/GPS/PTP date and time.

Once an item is selected from the list on the left, some parameters can be configured. Some parameters are available for each item.

Position: select the position of the time stamp item (left, center, right, top and bottom).

Some of the items have specific parameters.

- **Frame index**: origin may be absolute (from beginning of sequence) or from trigger frame.
- **Time from trigger, time from start**: "precision" in digits may be configured.
- **Fps**: select the units that are displayed in time stamp ("Fps" or "Hz").
- **Exposure**: select exposure units (milliseconds, microseconds or nanoseconds).
- **IRIG/GPS/PTP**: time is always calculated in UTC units, then an offset may be added to adapt the time to a specific time zone. Also, leap seconds can be configured.

Common settings are.

- **Font name:** select the font for the time stamp.
- **Font size:** select the font size.
- **Font Color:** select the time stamp color. If the image is monochrome, color is converted into gray scale.
- **Background color**: strings may have colored or transparent background.

2.2. Daily Folder

Daily folder is an additional folder that is created when images are saved. It can be modified at any time before saving images.

2.3. Zero Button

Zero button allow the user to modify the position of trigger frame (zero frame). Two options can be selected. In both cases, the user must move the cursor to the frame that wants to modify.

- Set the current frame as trigger frame and modify the number of pre-trigger and post-trigger frames.
- Set current frame as first frame of the sequence (“oldest frame”). In this case, the sequence is simply arranged and number of pre-trigger and post-trigger frames are not modified.

2.4. Open Raw file after download

Once a raw file is downloaded, Motion Viewer can be started and the raw file immediately open.

2.5. Open SSD/SD-card reader on MAC

Support for SD-Card and removable SSD on a USB reader has been added to Motion Viewer for MAC. To enable it, Motion Viewer must be executed with root privileges.

Insert the SSD or SD-card in a USB reader and connect it to a USB 2.0 or 3.0 socket. The operating system will detect a non-readable disk; if any message box will appear, press “Ignore”.

Open a terminal window and type:

sudo /Applications/MotionViewer.app/Contents/MacOS/MotionViewer

Then press enter. If Motion Viewer is installed in a folder that is not Applications, type the correct folder path.

The operating system will ask fro you user account password. Type it and press enter.

Motion Viewer will run with “root” privileges and show the content of the SSD/SD-Card.

2.6. Stream to disk

Stream to disk for XSM cameras has been improved. Images are recorded and directly saved in local computer storage. If more than one disk is selected, images are evenly stored in each drive, with increased speed.

If “Stream To Disk” is selected, streaming length can be set to “Free” or to a defined time by operating the corresponding slider and buttons.

If “Length” is set to “Free” the recording length is limited only by the room in the local disk. Streaming is started and stopped by clicking the trigger button.

If “Length” is set to a defined time value, first click on trigger button starts the streaming. It stops when the configured time has been recorded ans saved.

Once streaming is configured, a status panel appears. It shows the status of local computer DDR and XS-RT module memory.

S2DImages/2021-11-25 14.28.30
Streaming time:
1.82s
Remaining time:
18 min 6 s
Disk status:
Saving Images...
Available computer memory:
100.0%
Available XS-RT memory:
100.0%
Stop streaming
Close

2.7. Miscellaneous

- Added configuration of playback speed in fps (1 to 60).
- Added support for CCM-HD camera model.
- Added BROC slider to wheel control.
- Added routine that prevents computer from going in sleep mode when MI is running (Windows and MAC).
- Fixed launch of MV from MI on MAC.
- Fixed support to Os8 cameras and problem with O cameras after recording.
- Acquisition info panel has been replaced by tool tips.
- Fixed “erase latest segment” option. Fixed Motion Trigger.
- Fixed download issues when SDI is on.
- Fixed crash when LUT is selected on Motion Viewer.
- Added sliders and flip button on Motion Pad.
- Fixed crash on "playback SDI + arm" option in Motion Pad.
- Bug in Motion Pad: change images folder is not kept if you don't restart, create images folder if it doesn't exist.
- Fixed corrupted image if load from SD-card with different ROI (Motion Pad).
- Fixed wrong exposure configuration if sync is external (Motion Pad).