Motion Studio
What's new
Version 2.16.05

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1. Overview

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

2. What's new

2.1. Added playback bar

A playback bar has been added to the bottom side of Motion Studio layout. Playback controls have been separated from camera and image controls.

Playback controls work as before. The controls include the following:

- Directional play.
- Forward or reverse.
- Step forward and reverse.
- Skip to first or last frame.
- Stop play.

Four new buttons have been added to this bar.

- Histogram.
- Distance/Angle Measurement.
- Edit bookmarks.
- Toggle cross-hair.

The slider can be used to browse through the frames. Trigger position is shown with a red triangle. Bookmarks are shown with orange triangles.

A sequence of images can be trimmed by operating the buttons below the playback slider.

2.2. Bookmarks

Bookmarks can be set during a recording. To do so, a button has been added to the camera bar.

Once a sequence of images has been recorded or saved, bookmarks can be edited. To do so, click the “Bookmarks” button in the playback bar or select the bookmarks item in Tools menu.

General note

Add a general comment to the acquired sequence.

Bookmark annotation

A bookmark may be added to the current image. Use the playback slider/buttons in the playback bar to locate an image and click the bookmark button to add it. An orange triangle will appear on the playback bar. Click the bookmark button to erase an existing bookmark.

Use the arrow keys on the bookmark dialog to navigate the bookmarks. Use the X button to erase all the bookmarks in a sequence.

2.3. Tool for distance and angle measurements

Motion Studio can calculate distances and angles. A tool has been added to do so.

Distance

Enable “show target” in distance section and move the targets in the image. Distance is measured in pixels.

If you want to show the distance in other units, enter a known distance in mm and click “Calibrate”. After this calibration, units can be calculated in mm, m, inches and feet. Calibration can also be discarded.

The coordinates of target handles are shown in pixels or in other units. The origin can be configured to be one of the four vertices of the images. X axis goes from left to right, Y axis from bottom to top.

Angle

Enable “Show target” in Angle section and move the handles in the image. Angle can be measured in degrees or radians.

2.4. Added delay between recordings

If a recording is automatically restarted after download, the user can configure a timer that inserts a delay between recordings. The delay can be a few seconds or hours.

2.5. List RAW from two folders

XS-Mini cameras can stream directly to one or more local disk drives. Raw files generated by streaming may be stored in different folders from regular downloaded raw files. The open raw file dialog can switch between those two folders.

Enumerate from Images/RAW folder: it shows RAW files form regular images folder.

Enumerate from Write to disk folder: it shows files saved in streaming mode.

The list of available files can be displayed as a list with details or as a thumbnails list. To switch between those two views, operate the buttons on the right side of interface control.

2.6. Improved histogram, added vector-scope

A new button and a new tab have been added to the histogram dialog box.

View values: displays a list of histogram values.

Vectorscope: it shows the vector-scope of current image.

2.7. Improved mission mode dialog

Added display of memory segments. Improved the check of max fps, exposure and record length.

2.8. Miscellaneous

- Added support for 12-port Crash-Hub.
- Added support for 3D lookup tables.
- Added support for showing mission mode segments from a removable SSD reader.
- Added support for default color balance table.
- Improved software rendering of camera images.
- Improved parallel raw conversion.
- Improved edit filters preview.
- Improved XSM pre-trigger calculation in streaming mode.
- Improved management of multiple cameras live. Improved support of CCM-HD camera.
- Fixed mono display of color images and color to gray conversion.
- Bug: LUT dialog open when camera live is on makes MS crash. Fixed.
- Bug: images can be saved only in Bayer format. Fixed.
- Bug: if LUT is enabled and ROI dialog is open, images are shown with wrong colors. Fixed.
- Bug: parallel download when auto-download option is active,makes MS crash. Fixed.
- Bug: if UTC offset option is automatic, wrong value of UTC offset stored with images. Fixed.
- Bug: TNK is not applied in the same way on CCS live images and Raw files. Fixed.