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Application Note

Evaluation of CamPerform-CP series cameras with TimeViewer

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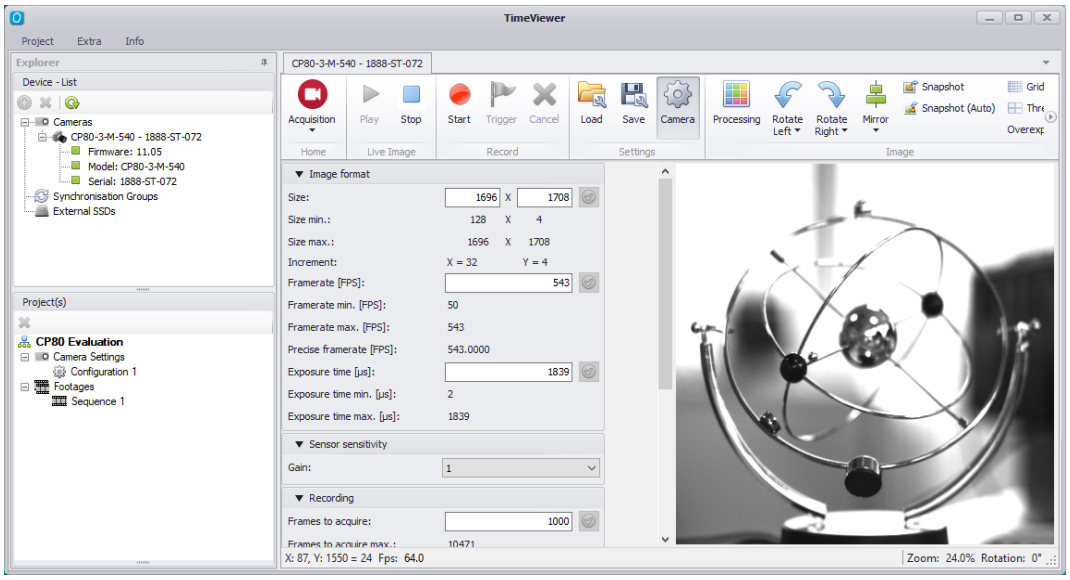

Example: TimeViewer software configured to control a CP80-3-M-540 camera

CP70, CP80 and CP90 cameras supported by TimeViewer

This note describes a system configuration to operate Optronis CamPerform-CP series cameras in combination with TimeViewer software. The system is focusing on fast and simple camera evaluation without the requirement to develop a particular software and without restrictions of software provided by frame grabber manufacturer.

Features:	capture and display of images at 8 bit camera control for frame rate, exposure time, frame format and gain recording of a single sequence into PC memory at full speed display of recorded sequences using overlays for analysis and measurements object tracking functions saving of sequences in compressed video formats saving of single images in different formats (JPEG, PNG, BMP)
Requirements:	support of all models of CamPerform-CP series TimeViewer version 1.4 or higher Active Silicon, FireBird Quad CXP-6 frame grabber 4 CoaXPress cables PC with PCIe x8 gen. 2 slot Win7 or Win10 with 32 bit or 64 bit.
Restrictions:	Some of CamPerform-CP series cameras features are not supported by TimeViewer. Frame format is restricted to readout areas centred to the sensor and no frame counter or Microsecond counter is available. Due to the recording into PC memory frame drops during recording can't be excluded.

Installation Hints

TimeViewer version 1.4 and higher is available on Optronis website (https://optronis.com/en/support/application-notes). The software can be installed as 32 bit and 64 bit application in parallel. On Win7/10 64 bit operating systems TimeViewer 64 bit application is recommended to allow access to more than 1 GB video memory for recording. Remark: TimeViewer 32 bit application is required to control cameras of CamRecord-Sprinter series.