FalCon ImagerControl
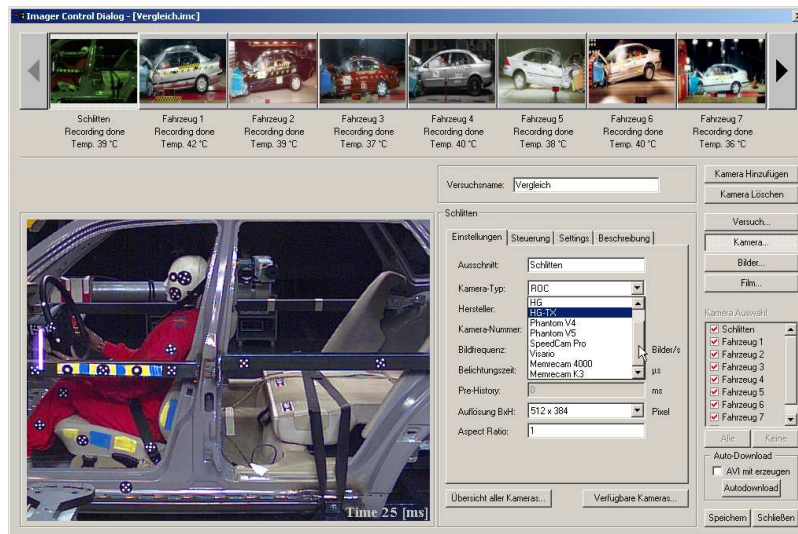
Basic version in FalCon QuickView included
Professional version as add-on to FalCon QuickView with extended functionality

Control software of digital High-Speed cameras of diverse manufacturers in mixed-mode operation

Control, Download, Edit, Optimize, Anti-Shake, Correct Distortion and Create AVIs

FalCon ImagerControl offers exactly the power you need for your test objects and crash systems. From a small test bench controlled by PC to a large system with a large number of auxiliary computers.

The software provides the ultimate way to control high-speed cameras of different types and manufacturers in the mixing operation in a test. Therefore the use of different operating software of the cameras can be reduced to an individual.

A fast familiarization and reduction of operator errors are ensured by consistent and comfortable handling of FalCon ImagerControl software.

Basic functions and plenty of helpful features and specifications of each camera type were integrated in the software and provided the user with a convenient execution of the test.

A remote desktop (tablet PC) allows direct operation on the camera. This will make it easier to adjust the settings on the cameras, resulting in better pictures.

A test procedure can be prepared so far (image optimization, choice of the compressor, inserting logos and texts ...) that the films can be automatically created and stored after the execution. By creating your own templates tests can be reproduced quickly and easily.

In order to accelerate the download process of the raw data from the camera and the creation of the films *ImagerControl* software can be extended with the addition products option to "unlimited number of client options" and / or "GPU Speed". (see separate data sheets)

The freely editable user interface allows customization of the desktop that can be stored separately under each user settings.

The software that grows to match your needs!

All new camera types (and many old ones as well) are supported:

- Support of NAC, Vision Research, Kodak/Redlake/IDT, Photron, Olympus, AOS, PCO and Weinberger/HS-Vision/Mikrotron (Types see separate data sheet)
- **ImagerControl Basic:** Unrestricted mixed-mode operation of all camera types of 1 producer is possible without losing the features of a given manufacturer.
  ImagerControl Professional: Unrestricted mixed-mode operation of all camera types of diverse producers is possible without losing the features of a given manufacturer.

Export:

- Entire data structure acc. to ISO MME 13499 with MII (Moving Image Information)
- Image sequences in file format AVI, WMV and TIF

Main Features:

ImagerControl Basic

- Control of all camera types of 1 producer in unrestricted mixed-mode operation
- Automatic download of raw data and creation of AVIs (serial)
- Settings of camera parameters for each camera single or for all cameras
- Readout of images for different time possible
- Image optimization before recording possible
- Insert substitution variables for AVIs - with different output resolutions:
- Test templates: Generation of templates with different cameras/-settings for reuse for other tests; (Allocation of logical names)
- SnapShot-Mode: Start-, T0- and End-Image
- Function „Smoothing" = noise suppression
- Overview of all cameras with settings
- Automatic saving in ISO-MME format
- Integrated raw data viewer: Screening of data immediately after the download
- Execution of distortion correction (CamFolder-file is needed)
- File management: copy/delete/save of films/images in destination file
- Camera templates
- Automatisation: Auto-Download (after Trigger: raw data download → AVI-creation → Saving)

ImagerControl Professional (ImagerControl Basic included)

- Control of all camera types of diverse producers in unrestricted mixed-mode operation
- Automatic download of raw data and creation of AVIs (parallel)
- Consequent multitasking on each computer use multi-CPU
- Online-histogram to check exposure-time
- Creation of an uncompressed film sequence with rapid image optimization only; Creation of the final and definitive AVI in the background
- Online-sharp tool
- Online camera positioning
- Online movie steadiness control = anti-shake ("MovXact" or "Tracking Plug-In" is needed) for reducing of jitter
- Spotlight-function
- Register of demands for name of camera perspective
- Imager Templates for creation of test-defaults with overview of camera positions
- Automatically AVI reduction (option "Slaves") for creation of AVIs with smaller resolution
- Support of logical names for the automatic created files of the reduced AVIs
- Control of onboard crash light (LED models of companies IES and Messring)
- Lenscontrol, automatic adjustment, also in automatic mode
- Mobile setup of cameras via remote desktop

Technical Framework:

- Program system for computer platforms under WIN Server 2008 / 2012 / 2016 / 2019, WIN 7 / 8 / 10
- MS Windows-compliant user interface.
- **Changes of technology and content subject to change**