

Tutorials

Camera System Setup and Operation:

Video: [TS3 / TS4 / TS5 Touchscreen](#)

- Tour of the menus
- Tapping and scrolling techniques
- Playing back saved videos from SSD
- Find the camera information

Video: [TS3 / TS4 / TS5 Basic Setup](#)

- Setting maximum frame rate for a given resolution
- Setting the maximum resolution for a given frame rate
- Restoring previous resolutions, etc.

Video: [Saving Configuration Files in FasMotion](#)

- Saving camera parameters (Resolution, Frame Rate, Exposure, etc.)
- Reloading camera parameters

Video: [PC Network Interface Setup](#) (a preview of Application Note 5)

- Selecting the correct Ethernet cable
- Setting up the Network Interface parameters on a PC

Video: [Mac Network Interface Setup](#)

- Configuring the NIC
- Configuring the Firewall

Video: [Mac UDP Receive Buffer](#)

- Checking udp.recvspace
- Configuring the UDP receive buffer for better image transfer performance

Video: [FasFire Workflow 1](#)

- FasFire Image buffer setup
- Triggering
- Saving (CAP files to SSD)
- Recovering buffers as CAP files are saved
- Load and Play saved CAP files

Video: [FasFire Workflow 2](#)

- Loading & Reviewing CAP files in FasMotion
- Batch Transfers

Video: [Saving Video Files in FasMotion](#)

- Cut-in and Cut-out
- Saving AVI files to a Path
- Saving CAP files to the SSD

Video: [Opening a CAP file in FasMotion](#)

- CAP files saved to PC may be opened via File/Open
- Trans-coding

Video: [Image Trigger](#)

- Setting the Trigger Position
- Configuring the Image Trigger
- Enabling the Image Trigger
- Reviewing the results

Video: [Setting up WiFi on the TS](#)

- Configuring the SSID
- Opening the camera in the Web-App on a PC
- Ad-hoc (peer to peer) connection
- Connecting to an iPhone
- Using the TS with WiFi outdoors

Video: [Using the IL with a Tablet](#)

- Setting up WiFi on the IL via FasMotion
- Connecting to an iPad
- Hawking HWUN4 compatibility

Video: [Recovering a Dark Color Video](#)

- Limitation of Gamma correction
- Benefits of saving raw image data
- Saving DNG files for best results

Video: [DVR Demo](#)--Dump truck application

- IL5 with DVR setup
- Playback directly from DVR, from DVR via PC, and from FasMotion
- Searching on DVR timeline
- Saving and sharing video from DVR via PC

Presentation: [DVR Hybrid System](#)

- DVR system architecture
- DVR time-lines
- Video demo
- Advantages of high-speed hybrid system

Technical Interest:

Presentation: [Magnification and Frame Rate](#)

- Definitions of photographic terms
- Relationships between object size, distance, speed and frame rate

Video: [iPhone vs TS5](#)

- Basic speed comparison
- Motion blur and other distortion
- When the illumination is poor...

Presentation: [TS5 vs TS3](#) (=IL5 vs IL3/HiSpec)

- Application vs formats
- Depth of Field advantage
- Magnification

Video: [Depth of Field vs Pixel Size](#)

- Importance of DOF in high-speed applications
- Relationship between pixel size and DOF

Excel: [Camera Calculator](#)

- Resolution vs Field of View
- Resolution vs Format
- Depth of Field
- F-Stops
- Gamma

Video: [Camera Calculator-Lens Selection](#)

- Lens Focal Lengths and formats
- Resolution and Sensor Size vs Field of View
- Lens format compatibility

Video: [Camera Calculator-Depth of Field](#)

- Aperture and focus
- F-Stop definition and
- Definitions of DOF terms: near/far focus, Hyperfocal Distance
- Relationships: DOF / Aperture / Pixel Size / light and sensitivity

Video: [TS5 with Infinity Lens](#)

- Demonstration viewing fibers
- See also YouTube clip on [Mites](#)

Troubleshooting

Video: [Saving Logs via FasMotion](#)

- Fastec technical support may ask for logs

Video: [Troubleshooting Trigger I/O](#)

- Setup
- Transceivers
- Triggering Device
- Cable