

High-speed Video

- Easy to use
- No post synchronisation needed
- Synchronous to all other measurement channels
- Fast and easy installation
- 1 fps to 500 000 fps

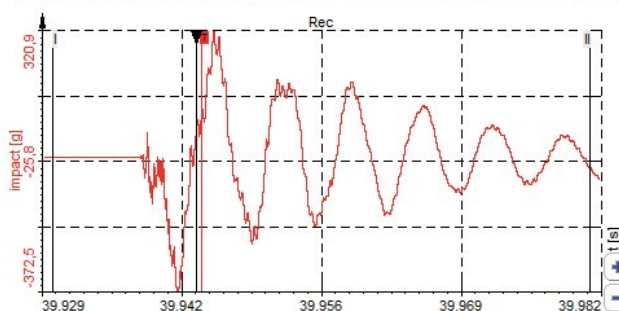
DEWETRON has offered the capability to capture synchronised video and measurement data for several years, providing an extremely useful visualization tool to help understand complex physical behaviour in addition to analysis of recorded sensor data.

However, in some applications conventional video offering frame rates up to 100 frames per second is simply too slow to capture high-speed events, and therefore high-speed video is required.

Automotive, aerospace, biomechanics, sport science, and industrial applications, often use high-speed video to capture physical phenomena, and high-speed cameras from Photron are now fully implemented in our DEWESoft™ software package, so setup and synchronisation is fully controlled via DEWESoft's intuitive user interface. Setting up a measurement is easy to do, eliminating the need for complex post capture synchronisation. With frame rates up to 7500 fps @ 1024 x 1000 pixels, or even faster with reduced resolution, combining high-speed video with sensor data provides valuable information, in a fast and easy to interpret format.

If you have high-speed video data from other cameras, DEWESoft™ also supports post synchronization of any high-speed video via a simple and effective setup interface.

So if you want to capture video at 100 fps or 10000 fps, and sensor data up to 100 MHz, DEWETRON offers the data acquisition solution to give you what you need.



Camera Models						
	SA5	SA4	SA3	SA2	SA1.1	APX RS
Single Unit camera design	*	*	*	*	*	*
Gigabit Ethernet interface	*	*	*	*	*	*
Suitable for operation in High-G / High vibration environment			*			*
Maximum resolution	1024 x 1024 pixels	1024 x 1024 pixels	1024 x 1024 pixels	2048 x 2048 pixels	1024 x 1024 pixels	1024 x 1024 pixels
Maximum frame rate @ full resolution	7000	3600	2000	1080	5400	3000
Maximum frame rate @ reduced resolution	775000	500000	120000	86000	675000	250000
Memory capacity [GB]	8/16/32	8/16/32	2/4/8	8/16/32	8/16/32	2.6/8/16
Max. recording length @ full resolution [frames]	4000/8000/16000	4000/8000/16000	1000/2000/4000	2000/4000/8000	4000/8000/16000	1300/4000/8000
Minimum Global Shutter Time	1us	1us	2us	1us	1us	2us
Auto Exposure Adjustment	*	*		*	*	*