

# PC SOFTWARE

## ABSVideoCapture



### Description

Together with an ABS camera the program ABSVIDEOCAPTURE permits low-cost and industrial-suited real-time video recording and play-back. Slow-motion and image cutouts (regions of interest - ROI) are arbitrary selectable.

Our very compact, bus powered UK11xx mini cameras operate only via USB2.0 interface with standard PCs (only one cable needed).

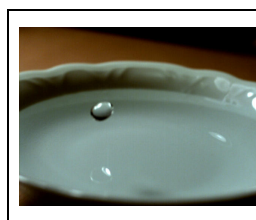
The bundle consisting of camera and ABSVIDEOCAPTURE software offers the user an interesting price/performance ratio.

The activation of the HS (high speed) software option allows high speed image capturing. Frame rates up to 670 images per second are possible at ROI size of 200 × 100 pixels. The ROI is arbitrary selectable.

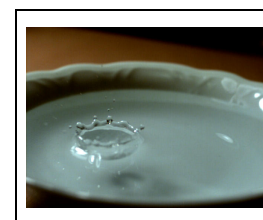
### Fields of Application

- Visual inspection of fast-moving processes
- Extension of common methods of measurement
- Error analysis at fast-moving parts of machines and devices
- Food and pharmaceutical industry
- Accident recording, crash tests

### Example



Waterdrop in free fall



Waterdrop hits water surface

### Supported Functionality

- Real-time video recording to hard disk
- Automatic partitioning of video stream into files up to hard disk capacity<sup>1</sup>
- Video play-back (real time, slow-motion, single image)
- Easy-to-use (like media player)
- ROI selection in preview image
- Manual and automatic selection of exposure parameters
- Time stamp insertion into image
- Frame rate acceleration by recording images in RAW/Bayer format
- Bayer-interpolation for subsequent displaying of color images
- Recording/storing of single images in BMP, JPEG, PNG, GIF and TIFF graphics data formats

### Suggested Cameras

- UK1175 3 megapixel camera color
- UK1155 1,3 megapixel camera monochrome / color
- UK1115 Wide-VGA camera monochrome / color

### Achievable Frame Rates

Image Size <sup>2</sup>	UK1155 <sup>3</sup>	UK1175 <sup>3</sup>
1280 × 1024	20 fps <sup>4</sup>	20 fps
1024 × 768	33 fps	33 fps
800 × 600	50 (55 <sup>5</sup> ) fps	50 (55 <sup>5</sup> ) fps
640 × 480	50 (85 <sup>5</sup> ) fps	50 (85 <sup>5</sup> ) fps
320 × 240	280 <sup>5</sup> fps	252 <sup>5</sup> fps
160 × 120	578 <sup>5</sup> fps	506 <sup>5</sup> fps
200 × 100	667 <sup>5</sup> fps	587 <sup>5</sup> fps

<sup>2</sup> Generally other user-defined image formats are possible (like 1024 × 240). On request we like to inform you about the achievable frame rates of your favored image format.

<sup>3</sup> Typically achievable frame rates at AVI recording (uncompressed, monochrome, BAYER pattern) on Pentium-4 PC (2,8 GHz, Hyper Threading Technology) under Windows XP, SP2

<sup>4</sup> fps = frames per second

<sup>5</sup> with software package ABSVIDEOCAPTURE HS only

<sup>1</sup> MS Windows limits AVI video files to maximum 2 gigabyte. This restriction is neutralized by intelligent software.