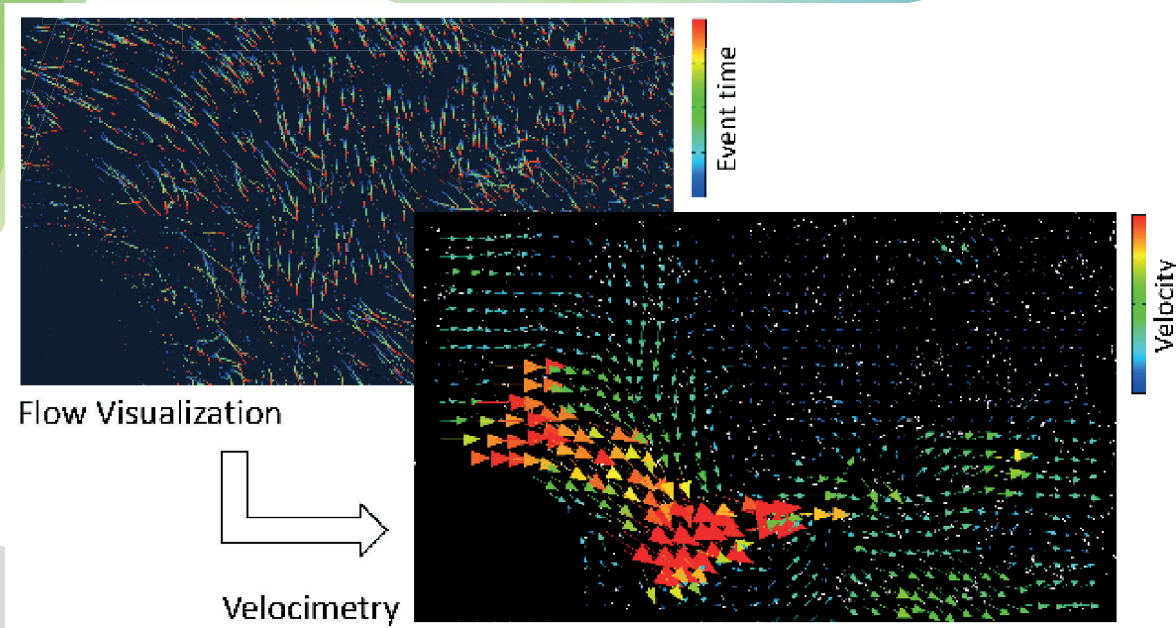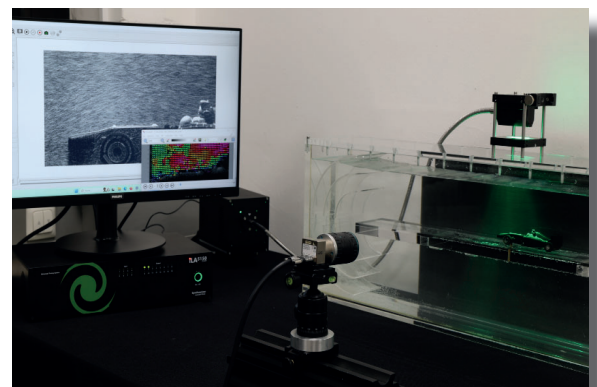# iLA.EBIV

Flow Visualization

Velocimetry

iLA_5150's EBIV system is an imaging and flow visualization technique using event based camera technology aqcuiring particle images illuminated in the flow. Since only intensity changes are recorded the data reduction enables high repetition rates of image recording up to 10000 fps. This easy to use technique can go along with steady or pulsed light sources and is significantly less sensitive to background scatter.
Together with PIVTec's software solution it is not only a flow visualization tool, but also enables time-resolved Particle Image Velicometry (TR-PIV) for quantification of flow.
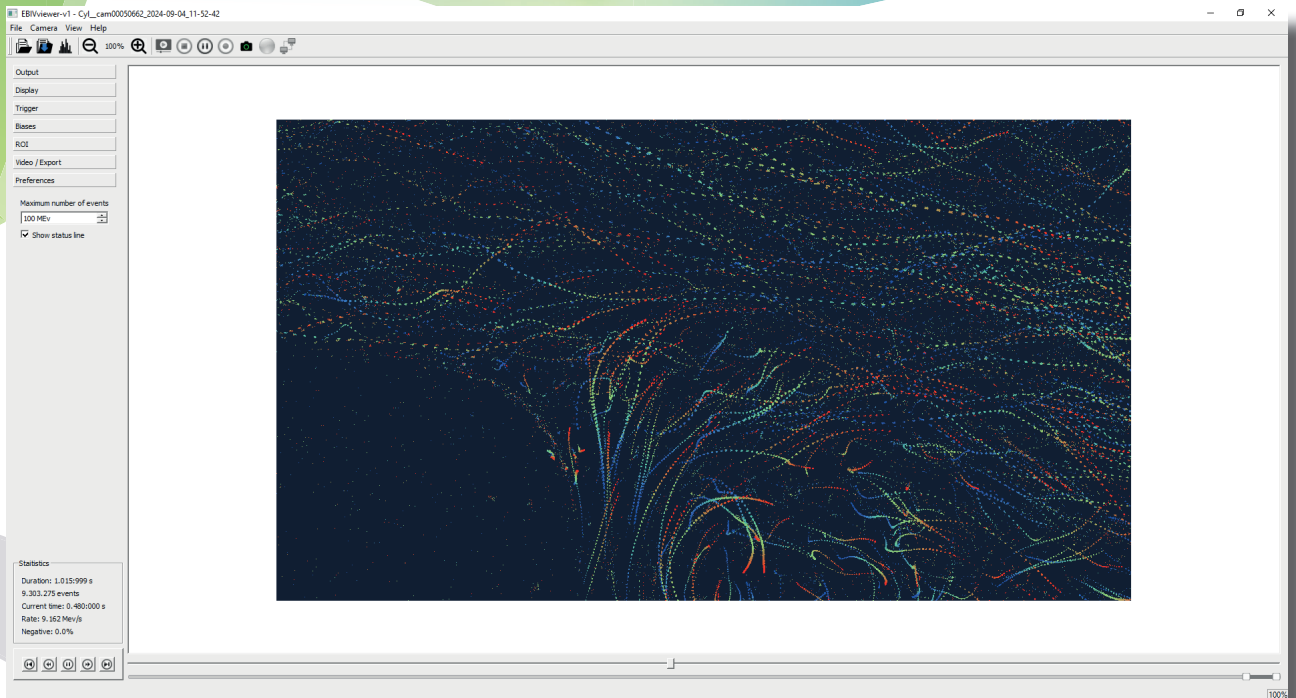
- Event-based camera technique with repetition rate up to 10000 fps
- Low sensitivity to (static) background scatter
- Can be combined with any kind of light source for flow or surface motion visualization
- Synchronized multi-camera array possible
- Easy connect via USB interface

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- EBIV Bundle with software for image / video acquisition and visualization
- Selection of ON / OFF or both events
- Several filters included to adjust signal to noise ratio
- Variable sample time (50 μs...1s)
- Variable time increments for export of sequence (40μs...80ms)
- Sequence export as video or multi-images for TR-PIV analysis
- Trigger output for synchronization of connected devices

- Event based camera EVK4-HD (SONY IMX636)
- Resolution 1280 x 720 pixels
- Pixel size 4.86 μm x 4.86 μm
- Repetition up to 10000fps
- USB3.1 interface
- Max. output bandwidth 1.6 GBps
- Dimensions w/o lens: 30mm x 30mm x 36mm
- C/CS lens mount

Data Sheet
Feb. 2025

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