



# SINGLE CAMERA 3D PTV



## COMPLETELY NEW POSSIBILITIES



### SINGLE CAMERA VOLUMETRIC 3D PTV

Why not capture both? Now 3D particle positions and 3D velocities can be captured with a single camera.



### HIGHEST RESOLUTION ON THE MARKET

Our patented micro lens array design provides the highest resolving light field cameras on the market.



### SIMPLE SETUP & EASY CALIBRATION

A one-camera solution largely simplifies the experimental setup and can be easily metrically calibrated.



### POWERFUL ANALYSIS

The Raytrix software „RxFlow“ allows detailed PTV analysis and enables you to calculate stunning visuals.



Using a single Raytrix light field camera not only greatly simplified my experimental setup while retaining sufficient precision. It also allowed me to measure volumetric PTV and the 3D shape of the background surface with the same camera at the same time.

– Dr. Peter Menzel (Senior Researcher, University Rostock)



## SPECIALIZED SOFTWARE "RXFLOW"

- RxFlow analyses flow from a single or a sequence of double shots, as well as from continuous image captures.
- The 3D flow is calculated directly from the raw light field images assuming particle images.
- RxFlow visualizes the data in 3D and can also store it in ParaView file format or for interactive visualization in PowerPoint.



## HIGH PERFORMANCE PARTICLE TRACKING

- Effective Resolution up to 7 MP.
- Up to 3 double shots per second or up to 180 continuous frames per second
- Depth resolution < 1%
- Extended Depth-of-Field



# LEARN MORE ABOUT THE NEW POSSIBILITIES

We are happy to discuss your application idea

info@raytrix.de  
0049 431 5606 240

raytrix.de