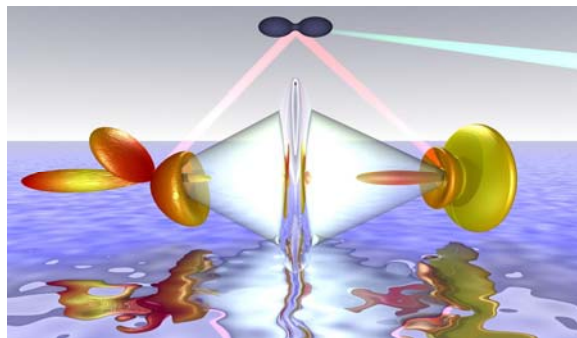


# RoentDek

Supersonic Gas Jets  
Detection Techniques  
Data Acquisition Systems  
Multifragment Imaging Systems

Handels GmbH

www.RoentDek.com  
info@RoentDek.com  
+49 – 69 – 798 - 47108



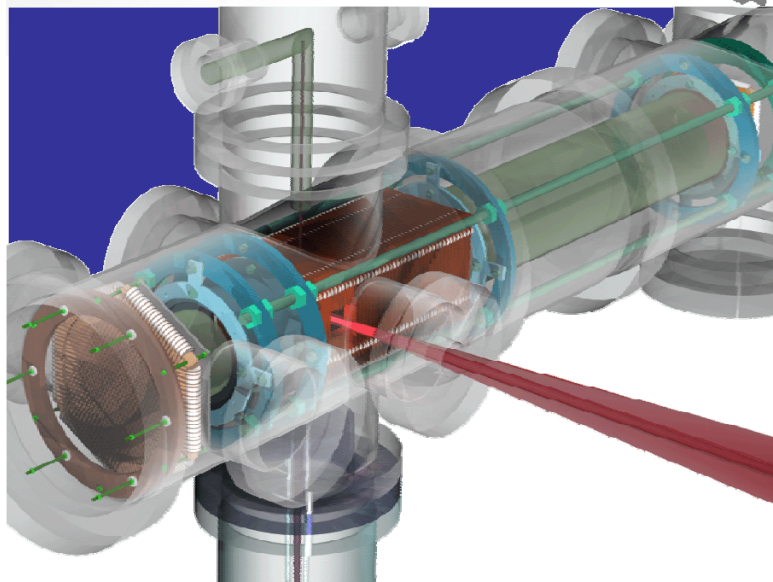
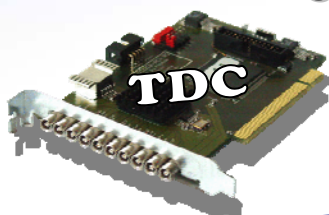
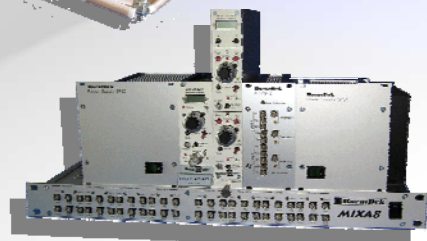
## 3D MOMENTUM IMAGING

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- MCP-Detector Systems
- Multi-Hit particle detection
- Coincidence modules
- Fast Data Acquisition
- Hardware & Software solutions
- Gas Targets
- Custom Made Systems

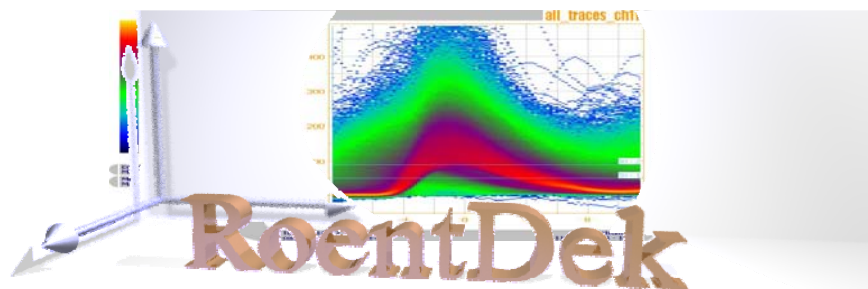
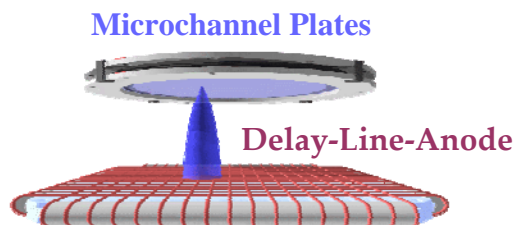
custom  
made



**Complete systems and custom made solutions:**

The COLTRIMS reaction microscope for quantum mechanical systems is well known and successfully adopted in atomic physics and already applied in solid state physics and surface science.

**WWW.ROENTDEK.COM**



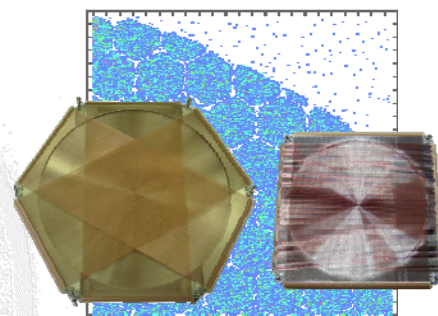
## Single Particle Detection:

Photons, Atoms, Ions, Neutrons, Electrons, Molecules, Cluster ...

Our complete detector and software solutions as well as a variety of electronic modules are capable of single particle/photon counting at highest count rates in series (event by event), parallel (Multi-Hit) and in coincidence (one or several detectors). Our range of products covers fast data acquisition systems such as Time to digital (TDC) or analog to digital (ADC) computer interfaces with up to 64 channels.

## Conventional Delay-Line Anode

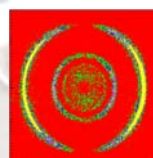
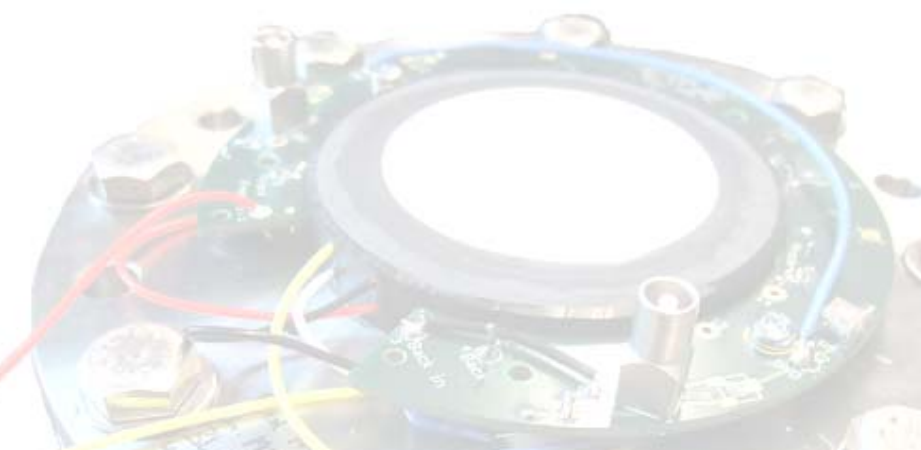
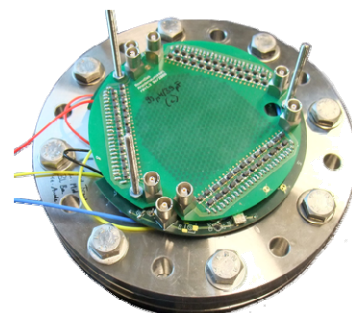
Delay-Line Anodes are available in different sizes and designs: 2-layer quadratic, 3-layer hexagonal and custom made solutions. They perform a general high resolution position read out and an excellent overall linearity in case of the patented Hexanode that is also designed for advanced multi-hit detection.



## Resistive screen detectors

A novel „resistive screen“ detector design allows placing the read-out anode (e.g. delay-line) on the air side of a flange-mounted open-face MCP detector and also enables a photon counting detector version with encapsulated photo cathode (e.g. for visible photon area detection).

- Photon counting for visible wavelengths
- True single event counting
- Extremely low background
- Unlimited dynamic range
- Position resolution of 50 micron
- Easily reconfigurable air-side read-out anode
- Open area of 40 or 25 mm



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