

Extended High-Speed Recording with d.fine'd Optical Quality

pco.
LiNOS[®]

pco.hsr 8x25 CLHS

High-Speed Recorder



pco.dimax 3.6 ST CLHS

High-Speed Camera



Fiber-Optic Link

Up to 200 Gbit/s

LiNOS[®] d.fine HR-M

High-Resolution Lens


excelitas[®]

About the Demonstration

This demonstration showcases a high-speed camera paired with a high-resolution lens, capturing a plasma sphere in stunning detail. The rapid movement of the plasma is recorded in real-time and streamed at ultra-high bandwidth to a powerful data recorder. It highlights the seamless integration of precision optics, ultra-fast imaging, and advanced data acquisition, presenting a setup engineered for maximum performance and reliability.

pco.dimax 3.6 ST CLHS Camera

This high-speed streaming camera captures 3.6-megapixel images at over 2000 fps. Equipped with a CLHS interface for real-time, uncompressed data transfer, its streaming architecture bypasses internal memory limits, enabling continuous recording and immediate access to data.

KEY FEATURES

- High-speed imaging at 2166 fps
- Excellent sensitivity with 11 µm pixels
- Fullwell capacity up to 60 000 e⁻
- Real-time streaming over 8x10G fiber



pco.hsr 8x25 CLHS Recorder

Introducing our brand-new high-speed recorder, engineered for continuous, lossless capture of even the fastest processes. Its stable, FPGA-based architecture enables reliable, uninterrupted operation, streaming images straight to onboard SSDs.

KEY FEATURES

- Data throughput up to 200 Gbit/s
- High-endurance 8 TB SSD storage
- Plug-and-play CLHS FOL integration
- Multi-camera support (up to 8 cameras)



LINOS d.fine HR-M Lens Series

This award-winning lens series delivers outstanding image quality and flexibility for demanding industrial and scientific applications. Designed for ultra-high-resolution imaging and unparalleled detail, it ensures exceptional performance for today's most advanced vision systems.

KEY FEATURES

- Supports sensors up to 250 MPixel
- Superior optical performance
- Modular design: easy configuration for various working distances and setups



pco.vision Camera Control Software

Our latest camera control application is designed for multiple Linux distributions as well as Windows. Featuring an intuitive interface, it allows you to access and control any PCO camera via network or direct cable. It also integrates seamlessly with the new pco.hsr 8x25 CLHS recorder.

KEY FEATURES

- Single or multi-camera setups
- High-speed data acquisition
- Network-based camera control

