STREAK READOUT UNIT
SRU-BA
Universal Readout Camera

- Gigabit Ethernet interface
- AD conversion 12 bit
- Resolution 1392 x 1040 pixel
- For SC-10 systems

www.optronis.com
The SRU-BA is a high resolution lens coupled readout unit designed to be used with the OPTOSCOPE SC-10 streak cameras. The universal readout camera uses a sensitive 12 bit CCD sensor combined with a high efficiency coupling optics. The CCD camera provides variable integration time and moderate frame rate for convenient streak camera setup. A standard Gigabit Ethernet interface simplifies handling and allows to use notebook type PCs.

**ACQUISITION MODES**

Integration time of the CCD sensor can be adjusted to adapt for particular streak camera applications. Together with the OptoAnalyse acquisition software image accumulation allows to extend this time to further improve dynamic range beyond the camera performance. For perfect synchronisation with single-shot acquisition, the readout unit can be externally triggered.

**COUPLING OPTICS**

The camera is coupled to the streak camera phosphor screen by using high aperture coupling lenses. This allows sensitive image capture and data acquisition in photon counting mode. A manual focal adjustment is provided.

**PHOTON COUNTING**

CCD sensitivity allows to use the camera for photon counting applications. Tiny scintillations related to a single photon are detected with signal intensity above noise level. Scintillation positions are defined by calculating their center of gravity. Photon counting mode provides increased spatial and temporal system resolution. Additionally, the noise of the readout camera and partly the intensifier noise is removed.

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**TECHNICAL DRAWING**

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