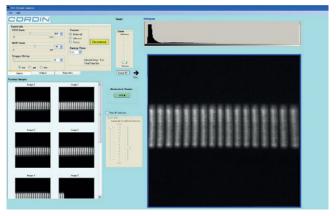
## Image converter streak camera Model 164



Streak cameras record a thin, wide line of light signals at the fastest possible speeds. They capture subtle variations in intensity from a line image, a spread spectrum, or linear array of discrete signals with resolution down into the picoseconds.

The Cordin model 164 streak camera is the evolution of Cordin's more than 20 years of experience in streak camera design and manufacturing. It uses a streak tube with a large photocathode and high spatial resolution to give a broad range of data capture capability. It has an integrated, high resolution, high dynamic range CCD readout that ensures all information is captured in both detail and gray scale. The 164 comes standard with a photocathode offering spectral sensitivity from 350nm to 1100nm. Sensitivity ranges covering from 115nm to 1550nm are available. The entrance slit is a user adjustable mechanical slit, so that resolution versus input energy can always be optimized. The input optics have an easily accessible telecentric region for drop-in filters.

The camera is controlled via a standard USB interface and a Windows PC. The host software allows for control of all camera functions, triggering and delays, image acquisition, display, and basic image analysis.



Screenshot of the model 164 user interface

#### **Features**

- Wide photocathode, 18mm x 4mm
- High spatial resolution, 30 lp/mm
- High temporal resolution, 50 picoseconds
- Very low noise, 10-8 Cd/m<sup>2</sup>
- High resolution readout, 12 bit, 4 megapixel CCD

#### **Options**

- Nikon lens mount for imaging
- Spectrograph coupling for time resolved spectroscopy
- Multi-channel fiber optic linear array input for optical signal analysis
- Alternate photocathode materials for choice of wavelength range sensitivity
- UV configuration



# Image converter streak camera **Model** 164

Specifications streak		
Streak		
Temporal resolution	50 picoseconds	
Spatial resolution	30 line pair/mm	
Spectral response	350 – 1100 nm standard 115 – 1550 nm optional	
Photocathode	18 mm x 4 mm	
Sweep nonlinearity	less than 10%	

Specifications intensifier		
Intensifier		
Device	25 mm Ø MCP	
Photocathode	Super S25	
Gain	10,000 watts/watt	
Shutter ratio	107:1	
Grey scale	42 dB to 48 dB	

Specifications CCD readout		
Pixels	2000 x 2000	
Device type	Full resolution progressive scan	
Dynamic range	12 bi	

Specifications triggering and interface		
Response time	less than 35 nanoseconds	
Jitter	less than 50 picoseconds	
Trigger input	+5 V	
Interface	USB 2.0 to Windows 7 host	

Specifications intensifier		
Intensifier		
Device	25 mm Ø MCP	
Photocathode	Super S25	
Gain	10,000 watts/watt	
Shutter ratio	107:1	
Grey scale	42 dB to 48 dB	

Specifications general	
Power input	110-250VAC 50-60 Hz
Weight	14 kg (32 lbs)

### **Dimensions**

