

# CORDIN

## SCIENTIFIC IMAGING

### HIGH SPEED ROTATING MIRROR CCD CAMERA

## Model 510

- **Very high speed:** 25 million frames per second
- **High dynamic range:** 14 bit ADC
- **High image quality**
- **Software control:** easy control of exposure and timing parameters for each channel through user-friendly software
- **Image alignment software:** post processing software for precise alignment of images for animation and analysis
- **Laser and pulsed flash illumination synchronization**
- **Built-in time delay functions**



The **Cordin Model 510** high speed rotating mirror CCD camera is the world's fastest non-intensified digital imaging system. The Cordin rotating mirror technology provides significantly better image quality and a higher number of frames than is achievable with any other high speed camera technology.

The 510 camera system offers 128 frames at speeds up to 25 million frames per second (fps) with full 14 bit dynamic range. Each image is 616 x 920 pixel resolution.

The gas driven turbine mirror-drive will operate on compressed air or nitrogen to 5 million fps. Higher speeds, to 25 million fps, require helium to drive the turbine.

The Model 510 is a synchronous camera system, which means the camera must trigger the event.

The 510 camera system has an intuitive PC-based interface for control and image viewing. It also features extensive calibration and diagnostic functions. A number of input and output ports are available for connection to and synchronization of external devices.

The 510 may be integrated with a microscope, and may be used with a wide range of objective lenses including telescopic or magnification lenses.

The Model 510 is the best solution for users who require an unparalleled combination of speed, frame count, and image quality.

#### OPTIONS

**Customized front optics**

**Microscope Integration**

**Monochrome or Color**

**Laser and pulsed illumination synchronization**

**Illumination Sources Models 605, 607**

**Mobile camera stand**

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Model 510

HIGH SPEED ROTATING MIRROR CCD CAMERA

### SPECIFICATIONS

<b>Number of Frames</b>	128	<b>ADC Dynamic Range</b>	14 Bit
<b>Maximum Framing Rate</b>	25 million fps	<b>Device Type</b>	Full resolution progressive scan Black and white standard Color optional
<b>Front Optics</b>	Single objective lens system (no parallax)	<b>Interface</b>	Gigabit Ethernet for camera control and image transfer
<b>Objective Lens</b>	Nikon F-mount		
<b>Resolution</b>	616 x 920 pixels		
<b>Pixel size</b>	6.5 x 6.5 $\mu$ m		

