

CORDIN

SCIENTIFIC IMAGING

HIGH SPEED ROTATING MIRROR CMOS CAMERA

Model 521

- **Very High Resolution:** 31 Mpix (6.5K x 4.9K) at all capture speeds
- **High speed:** 2.5 million frames per second
- **High dynamic range:** 12 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 521** high speed rotating mirror CMOS image sensor camera offers the highest resolution images available of any high speed camera. 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 521 camera system offers 27 frames at speeds up to 2.5 million frames per second (fps) with 12 bit dynamic range. Each image is 6,480 x 4,860 pixel resolution, and full resolution is preserved at all capture speeds.

The gas driven turbine mirror-drive will operate on compressed air or nitrogen to 500,000 fps. Higher speeds, to 2.5 million fps, require helium to drive the turbine. An optional electric drive is available which can drive the camera at speeds up to approximately 1.2 million fps.

The Model 521 is a synchronous camera system, which means the camera must trigger the event. Electronic shuttering of the CMOS sensors prevents overwrite and eliminates the need for blast shutters.

The 521 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 521 may be used with a wide range of objective lenses including telescopic or magnification lenses.

The Model 521 is the best solution for users who require the highest possible image quality and resolution at million fps speeds.

OPTIONS

Customized front optics

Microscope Integration

Monochrome or Color

Electric mirror drive

Laser and pulsed illumination synchronization

Illumination Sources Models 605, 606, 607

Mobile camera stand

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SPECIFICATIONS

| | | | |
|------------------------------|---|---------------------------|--|
| Number of Frames | 27 | Effective Aperture | better than f/16 |
| Maximum Framing Rate | 2.5 million fps | ADC Dynamic Range | 12 Bit |
| Minimum Exposure Time | 400 nanoseconds | Device Type | Full resolution progressive scan Black and white standard Color optional |
| Objective Lens | Nikon F-mount standard Other mounts optional | Interface | Gigabit Ethernet for camera control and image transfer |
| Resolution | 6,480 x 4,860 pixels | Weight | Approx. 450 lbs. |
| Pixel size | 3.45 x 3.45 μ m | | |

