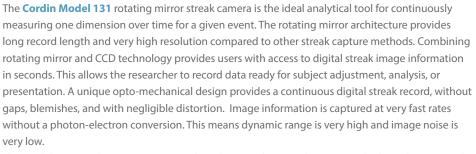


HIGH SPEED ROTATING MIRROR STREAK CAMERA

Model 131

- Very high spatial resolution, 3,250 pixels
- Fast temporal resolution, down to 1.4 ns
- **Software control** of exposure and timing parameters
- Laser and pulsed flash illumination synchronization
- Long record length, up to 28,300 pixels
- Re-triggerable within seconds
- 14 bit image depth
- Programmable time delay functions
- Captures external electronic fiducial inputs on common time base
- Electronic shuttering prevents image overwrite



The Model 131 streak image is 3,250 pixels in the spatial axis, and 14,000 pixels along the temporal axis. Optional extended record configurations offer up to 28,300 pixels on the temporal axis. The Model 131 has large pixels at 7.4 micron pitch. This allows for better dynamic range, as the saturation threshold of the pixels is relatively high. The Model 131 is offered with two alternative rotating mirror turbines: the standard 1209 turbine operates to 5,000 rps and the optional 1231 turbine operates to 7,500 rps. The turbines can reach 50% of full speed using compressed air or nitrogen. Helium is required to reach full speed.

The writing rate is determined by the speed of the rotating mirror, which is software controlled. At top speed, using the 1209 turbine the recording rate is 1,700 pixels per microsecond. The 1231 turbine at top speed yields a recording rate of 2,500 pixels per microsecond.

Two fiducial inputs are provided for precise image synchronization. Two programmable delayed outputs are also provided. An intuitive PC-based user interface allows for easy setup, acquisition, alignment, analysis and saving of data.

OPTIONS

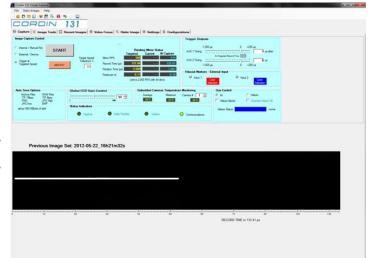
Extended record length to 28,300 pixels High speed turbine (Model 1231) **Optical fiducial mark generator**

Custom objective optics Custom slit configurations Laser field of view alignment tool



CORDIN





Screen shot of the Model 131 user interface

SPECIFICATIONS

Data Interface Gigabit Ethernet

Record Width	3,250 pixels	Trigger Inputs	+5V, +5V isolated, analog and
Record Length	14,300 pixels standard		optical with threshold
Extended Track Length	28,300 optional	Fiducial Inputs	Two independent channels
Minimum Temporal Feature	3.4 pixels at 25 micron slit width		captured on common time base
ADC Dynamic Range	14 bit	Delay Outputs	Two programmable delay channels on common time base
Radius of Image Arc			charmers on common time base
Subtended Angle of Arc			I
Objective Lens	Nikon F-mount standard	Turbino	MODEL 1200 MODEL 1221

Turbine MODEL 1209 MODEL 1231 Other objective optics available Max Mirror Rotation 5000 rps 7500 rps Pixel Size 7.4 x 7.4 microns **Temporal Resolution** | 2.0 ns 1.4 ns **Device Type** 16 MPixel full resolution 1,700 pix/µs Maximum Writing Rate 2,500 pix/µs progressive scan Black and white standard

