



CHRONOS RING



Chronos Ring of high speed cameras

The Chronos Ring is a world's first, a bullet time array of high speed Chronos cameras, synchronized for simultaneous exposures for 360-degree high speed imaging, or staggered exposures for extreme framerates.

Kron Technologies Inc, the Canadian manufacturer of the Chronos 1.4 and Chronos 2.1-HD cameras has developed the Chronos Ring to offer full 3D and volumetric measurement of high-speed events at ultra-high framerates. The Chronos Ring can be reconfigured with software to use any record mode - synhronized, orbiting, staggered and custom.

The Chronos Ring is made to serve the film, broadcast and sports industries with the ability to view slow motion video from any perspective at any time.

Up to 1 million fps (effective) can be had in a recording with the Chronos Ring when using the Orbit record mode.

The Chronos Ring is currently available in these configurations:

- Ring of 3m diameter - up to 48 cameras
- Ring of 6m diameter - up to 96 cameras
- Customize the design to your specifications any size, shape and type

Key features

- ▶ Synchronized mode for high speed video capture from all angles at any time
- ▶ Orbiting mode for ultra-hi-de speed imaging
- ▶ Staggered recording mode for twice or more the framerate of an individual camera by having only half or less of cameras expose at any time
- ▶ Open-source HTTP API for communication between network server and cameras
- ▶ Video alignment & post processing with DaVinci Resolve and our interface
- ▶ Personalized support for your project
- ▶ Available for rental or purchase

More information

Chronos Rings availability	3m and 6m Rings using Chronos 1.4: AVAILABLE NOW 3m and 6m Ring using Chronos 2.1-HD: AVAIL. NOV 2019 Custom Ring to your own project: AVAILABLE ANY TIME
Equipment required	High capacity network server for storage/control; a 96-camera Ring will record data at 268GB/s, and save to the network storage at 5GB/s, network switches with 10Gb/s links to server, amplifier box, power control switch boxes, tripod heads, HDMI monitor, mount for desk, BNC, Ethernet, audio and coax cables.
Truss system dimensions	Width & Length: Size of the ring plus 1m Height: At least 3m, 4-5m preferred
Operating space available inside the ring for recording	1.5m total vertical space with a 6m Chronos Ring

Can you tell us more about the cameras used?

The two current Chronos Rings available use the Chronos 1.4 cameras only (Chronos 2.1-HD should be available from November 2019). Each Chronos 1.4 camera is capable of 1,057 fps at 1280x1024 and 1,500 fps at 720p. Each Chronos 2.1-HD offers 1,000 fps at 1080p. Both models offer CinemaDNG and H.264 save formats. The Chronos 1.4 camera uses C mount lenses while the Chronos 2.1-HD will be able to mount EF, F, PL, MFT lenses.

Aside of capturing live footage, can we do photogrammetry as well or any other data extraction?

Yes, photogrammetry or stereoscopic images can be done by grouping two or more cameras.

What services do you offer?

Our services include production, shipment, installation, set up and adaptation of the control software to your needs.

I am interested, what's next?

The Chronos Ring is available for rental and purchase. For rental, you can use it directly at our facility in Burnaby (BC), Canada or have it installed at your location by our team. Lead time for a Chronos Ring purchase is about 3 month from order to installation.

For more information, please email thomas@krontech.ca or call us at 778-819-1182.

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