The Cordin Model 222-4G gated, intensified multi-channel CCD camera offers the best image quality of any multi-channel intensified camera available. It is a powerful and easy to use tool for studying events in the nanosecond to millisecond time domain. The camera system is based around a pellicle mirror beam splitter optical system that distributes the image from a single objective lens to eight separate imaging channels without vignetting, parallax or ghosting (-UV model uses a pyramid beam splitter which does incur some parallax). Each channel has an MCP device fiber-optically coupled to a 4MPixel CCD, and can capture two images per channel, for a total of 16 images captured by the system. Time between exposures on adjacent channels can be as short as 0 nanoseconds or as long as 10 milliseconds (adjustable in 1 ns increments). Time between exposures on a single channel can be as short as one microsecond.

Operation of the camera is controlled via a Gigabit Ethernet interface with user-friendly software that allows the user to set timing, sequence, gain and triggering. 14 bit images can be saved as TIFF or RAW files, and any 8 bit subsampled image can be saved as BMP or JPG files. Camera settings can also be saved and reloaded later to duplicate a set-up. The 222-4G is a thoroughly new design, building on Cordin’s 20+ years of experience in this technology.

**OPTIONS**
- Microscope integration
- Tele-focus macro objective lens
- Alternate photocathode materials for choice of wavelength range sensitivity
- UV configuration (model 222-4G-UV) with 220 - 700 nm spectral range
- Modular Design: available with fewer channels, with option of adding channels later as an upgrade
- S20 Photocathode
**SPECIFICATIONS**

**CCD**
- **Pixels**: 2048 x 2048
- **Device Type**: Full resolution progressive scan
- **Dynamic Range**: 14 bit
- **Size**: 15.16 mm x 15.16 mm

**INTENSIFIER**
- **Device**: 18 mm Ø MCP
- **Photocathode**: Super S25 (S20 on -UV model)
- **Gain**: 10,000 watts/watt
- **Shutter Ratio**: 107:1
- **Grey Scale**: 42 dB to 48 dB
- **Resolution**: 40 lp/mm

**OPTICS**
- **Number of Images**: 16 images on 8 channels
- **Objective Lens**: Nikon F mount (Pentax mount on -UV model, lens not included)
- **Beam Splitter**: Pellicle mirror system (Pyramid on -UV model)

**TRIGGERING AND INTERFACE**
- **Interframe Times**: 0 ns to 10 ms in 1 ns steps with independent control of each frame
- **Exposure Times**: 2.5 ns to 10 ms in 1 ns steps
- **System Response**: 65 ns maximum
- **Jitter**: ±3 ns
- **Input Triggers**: Logic Level, direct and isolated; Analog and Optical with threshold
- **Outputs**: Monitor, two programmable LVDS outputs on common time base with images
- **Interface**: Gigabit Ethernet for camera

**NOTE**: Model 222-4G-UV has alternate casing and dimensions. Contact Cordin for details.