

Coherent Anti-Stokes Raman Scattering with ICCD Cameras

Researchers from Japan show the use of ICCD cameras with InGaAs intensifier for coherent anti-Stokes Raman scattering measurements. Unlike detection with conventional CCDs an ICCD is able to restrict signal collection to a single pulse of a high repetition rate excitation system. Coupled to a high throughput, lens based spectrograph the camera makes, according to the researchers, a “powerful apparatus for obtaining CARS spectra with shot-by-shot measurement” that is able to “simultaneously detect the entire spectral region of the CARS signal in the fundamental vibrational modes”. Excitation is achieved with a 1064nm laser and broad supercontinuum pulse.

Featured Paper/ Publication: [Ultrabroadband multiplex coherent anti-Stokes Raman scattering \(CARS\) microspectroscopy using a CCD camera with an InGaAs image intensifier](#)
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Products used: [LS-785](#), [PI-MAX](#)