## Simultaneous spectro-polarimetric observation in multi spectral lines

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In order to select the best spectral line to extrapolate coronal magnetic fields, we developed a new spectro-polarimeter on the Domeless Solar Telescope at Hida Observatory. The new polarimeter consists of a 60 cm aperture vacuum telescope, an image rotator, a high dispersion spectrograph, polarization modulator and analyzer composed of a continuously rotating wave plate whose retardation is nearly constant in 500 - 1100 nm and a polarimetric beam splitter located closely behind the focus of the telescope, fast and large format CMOS cameras and an infrared camera. The polarimeter allows us to obtain full Stokes spectra in as many wavelength windows as the number of cameras simultaneously.

