

DKIST - Capabilities and results achieved with ViSP

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Since the discovery that sunspots are highly magnetized by Hale in the early 1900s, magnetism has become increasingly important in our understanding of processes on the Sun and in the Heliosphere. Many current and planned instruments are capable of diagnosing magnetic fields in the solar atmosphere through spectro-polarimetry. Four out of five “first-light” instruments of the Daniel K. Inouye Solar Telescope are polarimeters. The Visible SpectroPolarimeter (ViSP) is one of these instruments, designed to operate in the visible and near-infrared spectrum. I will briefly review the history, importance, and challenges of measuring magnetic field in the solar atmosphere, and describe the ViSP, its capabilities, and recent scientific highlights.