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Development of Visible Four-Color Simultaneous Imager using Deep Depletion and Fully Depleted CCDs

In order to carry out efficient follow-up observations for discoveries by PS1 sky survey of Pan-STARRS project, we develop visible four-color simultaneous imager for 2-m telescope which is being built at Lulin Observatory in Taiwan. The instrument splits the signal from the telescope using dichroic mirrors, and four images are recorded simultaneously by four CCD cameras. For r_{iz} channels, cameras with deep depletion CCDs are used. For y-band camera, a fully depleted CCD will be used to achieve higher sensitivity. We report on the overall design of the instrument and current status of the development.