

UVSiPM: a light detector working in Single Photon Counting based on SiPM sensor.

UVSiPM is a stand-alone portable photon detector instrument to measure electromagnetic radiation in the 320—900 nm wavelength range.

It has been developed in the framework of the ASTRI project, a MIUR flagship project lead by INAF and focused on the realization of an end-to-end prototype Cherenkov telescope for the CTA (Cherenkov Telescope Array).

The UVSiPM instrument is composed by a SiPM sensor, based on Hamamatsu S11828-3344M device, an electronic chain working in single photon counting with 10 ns double pulse resolution, and a collimator to regulate the angular aperture of the detector.

UVSiPM, with his peculiar characteristic, will permit to perform several measurements both in Lab and on field, devoted to the characterization and calibration purposes of the ASTRI telescope prototype, whose camera on the focal plane is composed by a grid of SiPM sensors.

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