

PS1 The Pan-STARRS1 facilities and hardware

The Pan-STARRS telescopes are located at Haleakala Observatories on the island of Maui. The first telescope built, the [Pan-STARRS1 Telescope \(PS1\)](#), is an alt-az telescope with an 1.8m diameter mirror. With a field-of-view diameter of 3 degrees, it can observe a 7 square degree area on the sky with every exposure. The [PS1: GPC1 camera](#), which uses 60 Orthogonal Transfer Arrays devices, is mounted in its focal plane. The PS1 observations are obtained through a set of five broadband [filters](#), designated as *grizy_{P1}*. Under certain circumstances PS1 observations are obtained with a sixth, "wide" filter designated as *w_{P1}* that essentially spans the gri bands. The [PS1 Observing strategy](#) was optimized for detecting moving objects as well as a uniform coverage of the 3pi survey (see [PS1 Description of the surveys](#)).

The starting point for the PS1 data archive is at [Pan-STARRS1 data archive home page](#).

The information on the pages below is taken from Chambers et al 2016, "The Pan-STARRS1 Surveys" and this paper should be cited when information is used.

- [PS1: Facility design and construction](#)
- [PS1 GPC1 camera](#)
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- [PS1: Description of the surveys](#)