## Palomar Adaptive Optics Test Plan

<table>
<thead>
<tr>
<th>Title</th>
<th>Acquisition Camera Calibration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>1.0</td>
</tr>
<tr>
<td>Date released</td>
<td>4/2/2007</td>
</tr>
<tr>
<td>Lead</td>
<td>A. Bouchez</td>
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<tr>
<td>Time requested</td>
<td>20 min. NGS, 20 min. LGS</td>
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<tr>
<td>Required conditions</td>
<td>Partly cloudy OK.</td>
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</tbody>
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### Purpose
Calibrate the Acquisition camera NGS and LGS plate scale and orientation.

### Test procedure

#### NGS:
2. Install HOWFS reflective spot, Acq fold mirror.
3. Center binary in Acq field of view.
4. Record 2 unsaturated images with the acquisition camera.
5. Acquire a second binary star and repeat steps 2-4.

#### LGS:
1. Install HOWFS reflective spot, Acq fold mirror.
2. Center bright (V=10) NGS on PHARO.
3. Project laser.
5. Record Acq image of LGS and a PHARO image of the NGS (integrate long enough to get ~10k peak counts)
6. Offset telescope N, S, E, W in a cross pattern with a throw of 7.5". At each position, record an Acq image and a PHARO image.

### Results and conclusions