

Camera test plans

- Establish test protocol for camera, with later mass production in mind.
- Check we have all the kit we need for the tests we propose.
- Mechanical:
 - ◆ Dimensions, focal plane location w.r.t. mount.
 - ◆ Box rigidity – load, test all orientations.
 - ◆ Test with dust, rain water, snow, hail, ice?
 - ◆ Lid tests, many repetitions, with dust, rain water...
- Cooling:
 - ◆ Water leaks.
 - ◆ Internal heating with dummy modules, back plane etc?
 - ◆ Environmental chamber for external warming? Warning by sunlight?
 - ◆ Vibration due to fans, water pumps?
- Sensors:
 - ◆ Acceptance tests – use Target modules, separate electronics? Capacity at Leicester adequate for now, for the future?

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- Electronics:
 - ◆ Target modules tested at SLAC?
 - ◆ Backplane? Tested in Washington?
 - ◆ Integration, power, fans, noise...
- Opto-electronic tests:
 - ◆ Test completed Target modules individually with blue laser. (Durham, 337 nm, 1 ns?)
- Trigger:
 - ◆ Generate trigger patterns with FPGA? How input to camera?
- Complete camera tests:
 - ◆ Check cooling with fully assembled camera.
 - ◆ Temp. sensors?
 - ◆ Set up to “flash” camera in controlled way – calibration system.
 - ◆ Noise studies.
 - ◆ Trigger test off telescope?
 - ◆ Maintenance tests?
- On-telescope tests
 - ◆ Schedule of ASTRI.
 - ◆ Support for tests in Sicily?
 - ◆ Mini-array?