**List of photo-detectors for one squeezer unit (no filter cavity)**

**IN AIR:**

* **FSS1 PD** Qty: 1

Newfocus 1611 (commercial): <https://www.newport.com/p/1611FS-AC>

* **DC monitoring diodes** Qty: 6

Commercial - Thorlabs SM1PD1A or others (similar to ALS monitoring: https://dcc.ligo.org/LIGO-E1200938)

* **SHG PDH diode** Qty: 1

LSC RF PD style @ 35MHz, 532nm

🡪 commercial alternative might be feasible (1811)

* **WFS, 42.4 MHz** Qty: 2

Same design as for 45 MHz aLIGO WFSs.

* **1 homodyne detector @ 3.1 MHz** Qty: 1

Diagnostic diode, prototype built (see https://dcc.ligo.org/T1500040-v1)

**IN VACUUM:**

* **In-vacuum DC diode for CLF monitor** Qty: 1

In-vacuum DC diode for monitoring @ 1064nm CLF beam

Typical power: ~ 1 uW, max 50 mW

(need to be able to handle SEED power level)

* **In-vacuum DC diode for GREEN PUMP monitor** Qty: 1

In-vacuum DC diode for monitoring @ 532nm green pump beam

Typical power: 20 uW, need to be able to handle 50 mW green

* Coherent locking field frequency is now set to 3.1 MHz because of current **OMC PDs response** (see figure 6 in <https://dcc.ligo.org/DocDB/0121/E1500358/002/E1500358-v2.pdf>); if redesign is done we can relax requirement on CLF frequency

**PREFERIBLY IN VACUUM:**

* **OPO REFL diode** (preferably in-vac) Qty: 1

LSC RFD PD style, 85 MHz, 532nm

* **CLF 2f diode** (preferably in-vac) Qty: 1

LSC RF PD style, 6.2 MHz, 1064nm