

Stepping motor

and

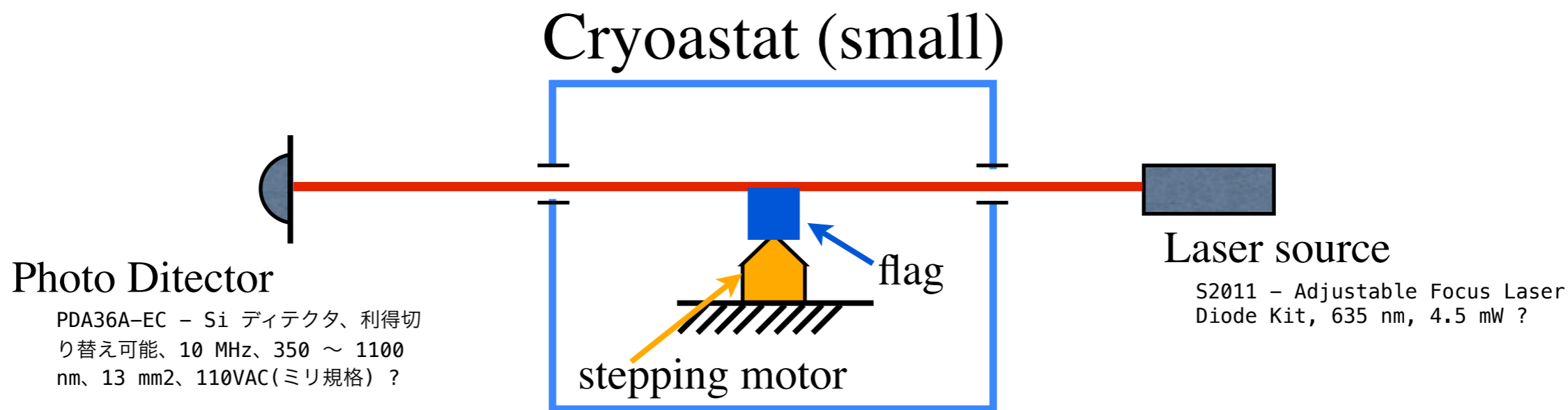
Displacement sensor and actuators (between
Intermediate Mass and Intermediate Recoil Mass)

Dan Chen

2013/11/14 Cryo-payload kickoff meeting

Test of stepping motor in cryogenic temperature

➔ For initial alignment on platform(?)



Purpose	Check the stepping motor works in cryogenic temperature Measure the linear range of the stepping motor in cryogenic temperature
Who	Dan, Gerald, and so on
Where	Small cryostat (ICRR)
Time span	< 1week

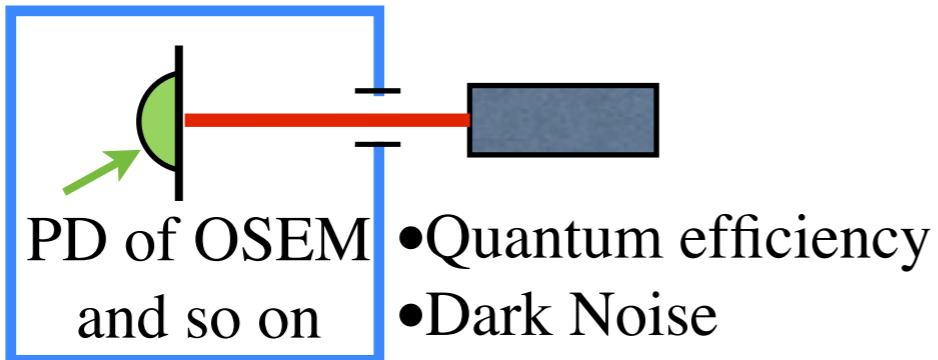
Test of Displacement sensor and actuators (OSEM) in cryogenic temperature

OSEM is a local control system which has a shadow sensor and a coil actuator

➔ (Between Intermediate Mass and Intermediate Recoil Mass)

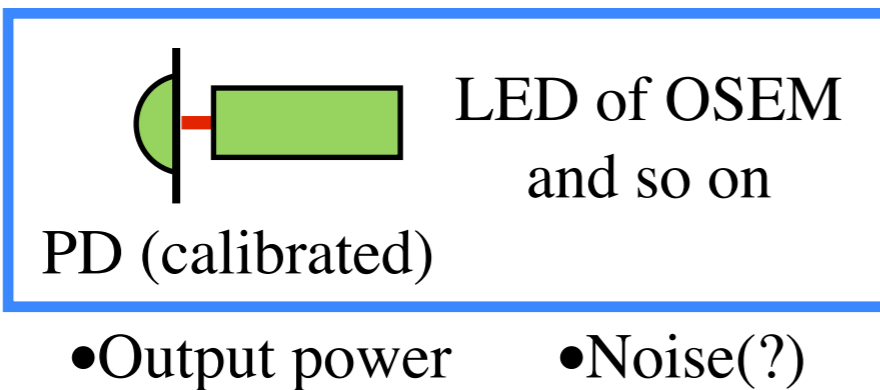
1st step

Cryoastat (small)



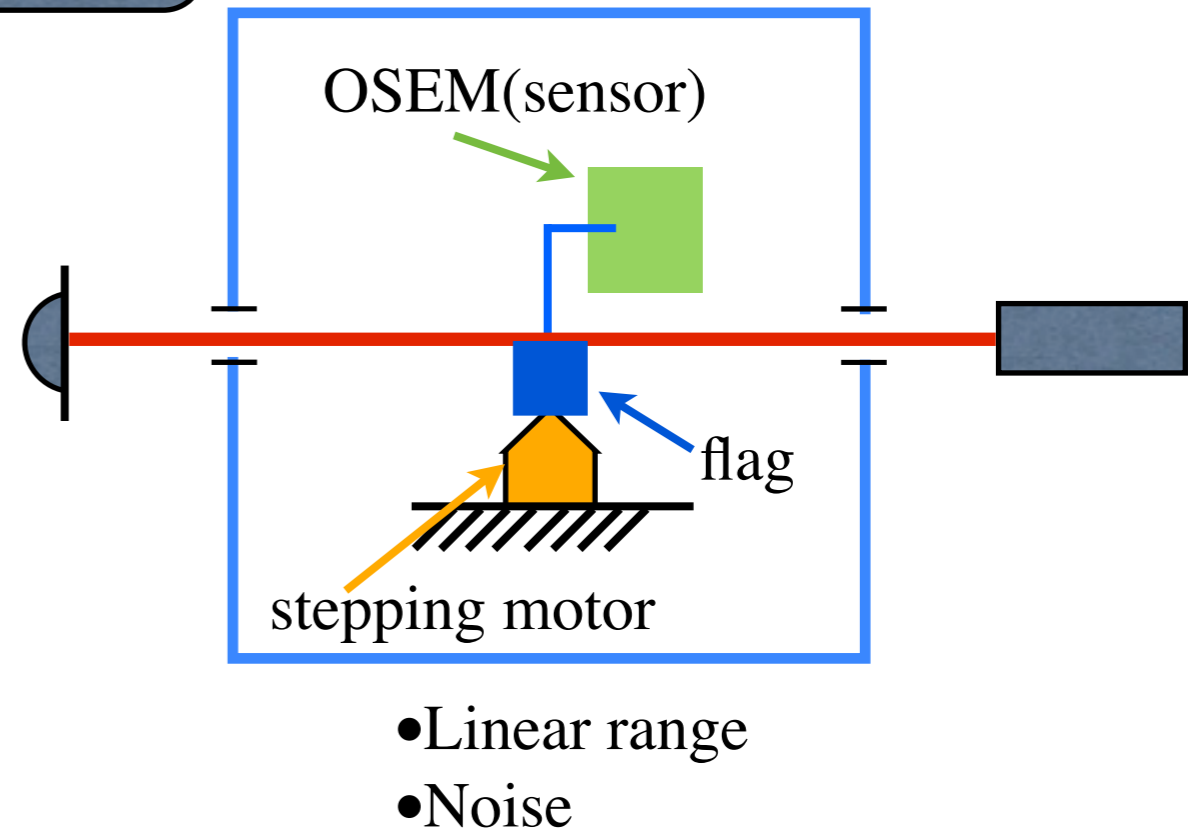
2nd step

Cryoastat (small)



3rd step

Cryoastat (mid?)



Purpose	Check the performance of OSEM in cryogenic temperature. (Linear range and noise of sensor)
Who	Dan, Gerald, and so on
Where	Small cryostat and mid-cryostat? (ICRR)
Time span	~ 2-3week