Emitter satellite

Receiver satellite

Solar Energy

Laser — Reflected Laser pulses

Reflected Laser pulses (via Earth)

Solar Energy

Photon counter — reference photon received — reference photon received

Nadir Pointing — Nadir Pointing — Pointing Mechanism — Pointing angle

Nadir Pointing — Nadir Pointing — Attitude Control — Sun pointing

Give go if nadir pointing — Pointing error — Attitude error — Attitude Determination

Navigation — -Transmission Time and Location - Receiving Time reference photons

Provide power — Provide power — Provide power — Provide power — Provide power — Provide power — EPS — Provide power — Provide power

Data Storage — Transmittable data

Receiver data* — Communication — Ground target pointing data — Data

Photon counter — Photon received time — Photon count

Ground Target Pointing — Pointing Mechanism — Pointing angle

Ground Target Pointing — Attitude Control — Sun pointing

Pointing error — Attitude Error — Attitude Determination

Provide power — Provide power — Provide power — Provide power — EPS — Provide power — Provide power — Provide power

Time — Navigation — Photon received position — Relative position

Data Storage — Measurement data to be send

-Measurement data* -Relative position data — Ground target pointing data — Communication — Measurement data*

Commands — Commands — Ground Stations

Commands — Mission Control — Provide Data

Researchers — Request Data packages — Digital Terrain Model