

**After fixing details of LRA of QZS-1, I will write this Form.**

ILRS SLR Mission Support Request Form  
Retroreflector Information

Satellite Name	QZS-1
Contact for Retroreflector Information	(1 <sup>st</sup> ) Shinichi Nakamura (2 <sup>nd</sup> ) Motohisa Kishimoto
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1. Array Type (spherical, hexagonal, planar, etc) to include a diagram or photograph
Planar Type
2. Array manufacturer
HTSI
3. Link (URL or reference) to any ground-tests that were carried out on the array
4. The LRA design and/or type of cubes was previously used on the following missions:
Prisms are same as ETS-8
5. The 3-D location (possibly time dependent) of the satellite's mass center relative to a satellite-based origin:
(QZS Project will write here!)
6. The 3-D location of the phase center of the LRA relative to a satellite-based origin:
7. The position and orientation of the LRA reference point (LRA mass-center or marker on LRA assembly) relative to a satellite-based origin:
8. The position (x,y,z) of either the vertex or the center of the front face of each corner cube within the LRA assembly, with respect to the LRA reference point and including information of amount of recession of front faces of cubes:
9. The orientation of each cube within the LRA assembly (three angles for each cube):
10. The shape and size of each corner cube, especially the height:

11. The material from which the cube are manufactured (e.g. quartz)
12. The refractive index of the cube material, as a function of wavelength $\lambda$ (micron)
13. Dihedral angle offset(s) and manufacturing tolerance:
14. Radius of curvature of front surface of cubes, if applicable:
15. Flatness of cubes' surfaces ( as a fraction of wavelength)
16. Whether or not the cubes are coated and with what material: