back conical inner and outer wall sections together defining a substantially egg shape open at opposite ends, the inner walls being mirror-like and the enclosure having opposing light-receiving and light detecting end apertures at said opposite ends for respectively receiving incident light at one end and for directing light concentrated and collected from the inner walls within the enclosure for detection at the aperture at the other end and in which the light is infrared and a liquid nitrogen dewar is mounted within the enclosure near the detection end thereof.

5. A system as claimed in claim **4** and in which the egg-shaped enclosure comprises an inverted curvilinear concentrating cone section abutting a substantially symmetrical curvilinear collecting cone section.

6. A system as claimed in claim **5** and in which the concentrating cone section is of substantially parabolic shape and the collecting cone section is of substantially elliptical shape.

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