

IMSAR LLC has technology that is able to track moving targets, image the surface of the earth, create digital elevation maps, assist in search and rescue operations, and detect small changes in a scene, such as the movement of a vehicle. Various branches of the US military, including the Navy, Army, and Air Force, as well as some commercial businesses, have expressed interest in this technology. The size, weight, power, and cost of IMSAR's Synthetic Aperture Radar (SAR) system, known as NanoSAR, are an order of magnitude less than similar systems.

L-band radios are used to communicate between the ground-based control station, and the radar systems. Each radio only uses a small amount of bandwidth, at a single center frequency, but is capable of operating anywhere within the band requested in the application. Since we do not know where potential conflicts might exist at a given location, we have requested authorization over the full band, with the expectation that we will be notified of any limitations, and can identify an appropriate portion that is clear for operation.

Description of directional antenna 1.2 meter parabolic reflector with L-band transmission feed half power beamwidth is 7.4 degrees polarization is right-hand circular dish is mechanically steered in elevation from -10 to +85 degrees, and 360 degrees in azimuth steering speed is 8 degrees per second, in both elevation and azimuth.

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