

Multiple Frequency Optical Mixer and Demultiplexer and Apparatus for Remote Sensing

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DESCRIPTION

This technology is a remote sensing and mapping system. The system includes several solid state imaging illumination sources that operate in different frequencies within a pre-selected band of frequencies in response to pulsed electrical signals from a modulator module. Each illumination source comprises two optical doublers having optical doubling crystals tuned to different frequencies. A pair of dichroic mirrors split the doubled frequency signal into unique output signals and other frequency signals to subsequent optical doubler.

FEATURES AND BENEFITS

- The remote sensing and mapping system comprises robust optical sources in order to increase the life of laser light sources intended for laser-based metrology and mapping while increasing the performance latitude achieved by the illumination sources.

APPLICATIONS

- Radar
- LiDAR
- Satellites
- Environmental Management
- Imaging
- Weather
- Aircrafts

FOR MORE INFORMATION

If you are interested in more information or want to pursue transfer of this technology, GSC-15349-1, please contact:

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