

Methods and Systems for Collecting Data from Multiple Fields Of View

Case Number: GSC-14240-1
Patent Number: 6,479,808
Patent Exp. Date: 6/28/2020

DESCRIPTION

This data collection method involves diffracting backscattered laser light received from different field of views to detectors, using a holographic unit that is maintained stationary relative to focal plane optics and detectors. Backscattered laser light from a field of view is diffracted by a holographic optical element (HOE) in a holographic unit, and focused to a detector through focal plane optics. The backscattered laser light received from the field of view, is diffracted by the HOE and focused to the detector through the optics.

FEATURES AND BENEFITS

- The technology enables efficient collection of data from multiple fields of view.

APPLICATIONS

- Optical Sensing
- Terrain Mapping
- Wind Monitoring

FOR MORE INFORMATION

If you are interested in more information or want to pursue transfer of this technology, GSC-14240-1, please contact:

Enidia Santiago- Arce
Technology Manager
NASA Goddard Space Flight Center
Innovative Partnerships Program Office
enidia.santiago-arce-1@nasa.gov
(301) 286-8497