

Three Dimensional Imaging LiDAR

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DESCRIPTION

This is a 3-D imaging LiDAR system originally developed for spacecrafts. The system has a light source e.g. laser, transmitting a beam of light. A dual wedge optical scanner (102) scans the beam of light transmitted to a surface of the ground and another beam of light transmitted from the surface of the ground. An array of two-dimensional pixellated detectors (108) is provided to detect the later beam received from the scanner to generate a responsive signal. A multi-channel timing receiver is configured to image only the light emanating from the surface of the ground. The transmitted beam is angularly displaced in a forward direction of a LiDAR system motion.

FEATURES AND BENEFITS

- The receiver is configured to image only the light emanating from the surface of the ground, thus eliminating an additional background noise from non-illuminated areas of the ground to enable an effective noise control.

APPLICATIONS

- Remote Sensing
- Agriculture
- Archeology
- Biology
- Conservation
- Robotics
- Metrology
- Surveying

FOR MORE INFORMATION

If you are interested in more information or want to pursue transfer of this technology, GSC-14616-1, please contact:

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