

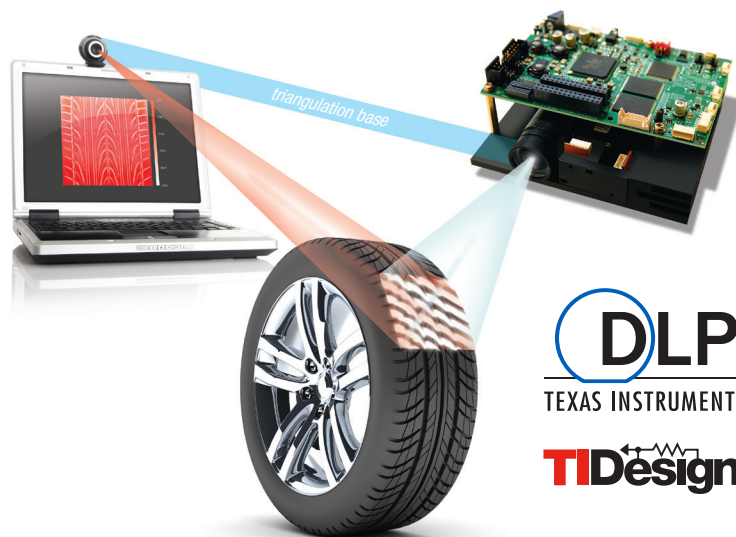
Point Cloud Generation and 3D Machine Vision Reference Design

Get more speed and accuracy with structured light using DLP® technology



Construct your point cloud and accelerate your machine vision solution with the **DLP® LightCrafter™ 4500** evaluation module and reference design!

The 3D machine vision reference design encompasses Texas Instruments' DLP structured light software development kit (SDK). This design empowers developers with a framework to construct 3D point clouds by integrating TI's digital micromirror device (DMD) in structured light solutions with cameras, sensors, motors or other peripherals.



Key Features and Benefits

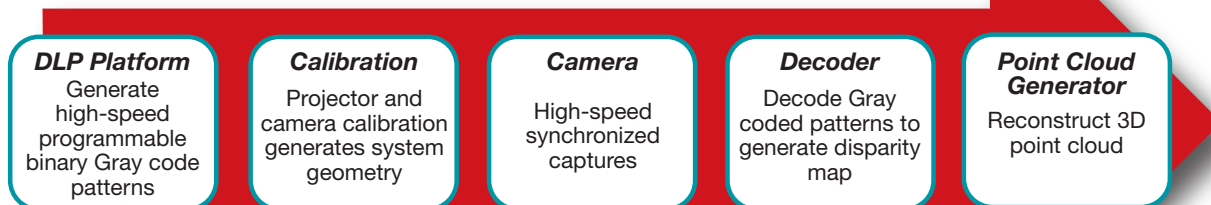
- Fast, programmable pattern rates
 - Acquire 3D scan data in real-time on moving objects
 - Optimize scan speed and accuracy for multiple objects and environments using adaptive pattern sets
- Digital switching using reflective, reliable MEMS micromirrors
 - Minimal sensitivity to color, distance, movement and environment improves performance over time and temperature

Example Applications

- Industrial robotics
- Laser scanning alternative
- Medical imaging
- Biometrics

Access all design files and SDK source code at ti.com/dlp

DLP technology offers a complete solution



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