



ASTM INTERNATIONAL
Helping our world work better

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ASTM International Technical Committee E57 on 3D Imaging Systems

Scope

The development of standards for 3D imaging systems, which include, but are not limited to laser scanners (also known as LADAR or laser radars) and optical range cameras (also known as flash LADAR or 3D range camera). The initial focus will be on standards for 3D imaging system specification and performance evaluation for applications including, but not limited to:

- Construction and Maintenance
- Surveying
- Mapping and Terrain Characterization
- Manufacturing (e.g., aerospace, shipbuilding, etc.)
- Transportation
- Mining
- Mobility
- Historic preservation
- Forensics

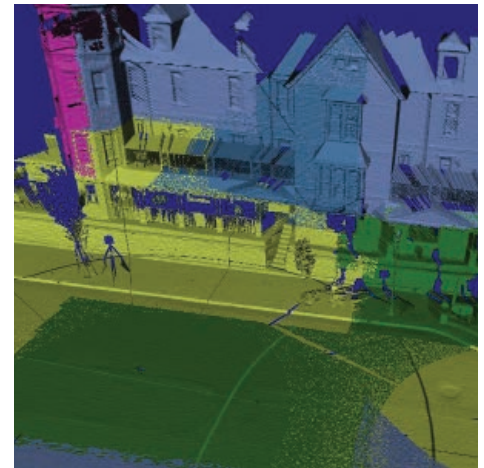
The work of this Committee will be coordinated with other ASTM Committees and outside organizations having mutual interest.

Technical Subcommittees

- E57.01 Terminology
- E57.02 Test Methods
- E57.03 Guidelines
- E57.04 Data Interoperability

Key Documents

- E2544 Standard Terminology for Three-Dimensional (3D) Imaging Systems
- E2641 Standard Practice for Best Practices for Safe Application of 3D Imaging Technology
- E2807 Standard Specification for 3D Imaging Data Exchange, Version 1.0
- E2919 Standard Test Method for Evaluating the Performance of Systems that Measure Static, Six Degrees of Freedom (6DOF), Pose
- E2938 Standard Test Method for Evaluating the Relative-Range Measurement Performance of 3D Imaging Systems in the Medium Range
- E3064 Standard Test Method for Evaluating the Performance of Optical Tracking Systems that Measure Six Degrees of Freedom (6DOF) Pose
- E3124 Standard Test Method for Measuring System Latency Performance of Optical Tracking Systems that Measure Six Degrees of Freedom (6DOF) Pose
- E3125 Standard Test Method for Evaluating the Point-to-Point Distance Measurement Performance of Spherical Coordinate 3D Imaging Systems in the Medium Range



Quick Facts

Established 2006

Number of Members 50+

Number of Standards 8

Global Participation

10 Countries represented

The standards are available in

Volume 10.04 in the *Annual*

Book of ASTM Standards

Meetings E57 meets as needed

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Learn more about Committee E57

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