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Engineering and Design
PHOTOGRAMMETRIC AND LIDAR MAPPING

1. Purpose. This manual provides procedural guidance, accuracy standards, technical specifications, and quality control (QC) criteria for performing photogrammetric and Light Detection and Ranging (LiDAR) mapping. It distinguishes aerial and satellite based photogrammetry and LiDAR from their terrestrial and mobile counterparts; qualifies the use of these terms to be solely applicable to aerial and satellite based methods; and references the appropriate manuals in which additional relevant information can be found. Rapid changes in technology and methodologies will cause some language in this document to become outdated; therefore, this manual provides guidelines to be followed, where applicable, instead of an absolute set of requirements requiring a waiver from HQ USACE to do something outside the language contained herein.

2. Applicability. This manual applies to all major subordinate commands, districts, laboratories and centers performing and/or contracting for aerial and satellite data acquisition, digital orthophotography, photogrammetric and/or LiDAR mapping services in support of planning, engineering and design, construction, operations and maintenance, and/or regulation of civil works or military construction projects

3. Distribution Statement. This publication is approved for public release; distribution is unlimited.

FOR THE COMMANDER:

10 Appendices
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This manual supersedes EM 1110-1-1000, dated 1 July 2002.