

## *LiDAR's First Completely Integrated Solution*

### **Proven Production Experience**

Virtual Geomatics' VG4D Production Manager™ suite is built on a decade of high-volume, high-quality, award-winning production experience. The software's key characteristics: accuracy, dependability, ease-of-use and efficiency, make it a sure winner in a marketplace that demands a single-sourced wholly, integrated production management solution.

### **Streamlined Workflow Integration**

VG4D Production Manager, the flagship software offering from Virtual Geomatics is the new standard for the industry. The company, guided by seasoned software executives and mapping professionals, is fervently committed to the innovation of software products that deliver quantum leaps over today's market leaders with new integrated capabilities for improving the production and exploitation of today's rich, 3D datasets and the new complex multi-dimensional datasets expected as the complexity of point cloud data accelerates.

### **Invigorating Established Markets**

Whether from airborne, terrestrial, or other sources, VG4D Production Manager is designed to help users from all types of mapping firms: Federal, State, and local governments; civil, survey, and environmental engineers; forestry and natural resources professionals; educational and research institutions, and any other geospatial professionals identify, classify, analyze, manipulate, utilize and distribute multi-dimensional data products.

### **Raising Expectations**

VG4D Production Manager is an exciting step forward for the geospatial software industry. It

is raising the bar in customer expectations for both functional capabilities and creative, insightful solutions with aggressive, competitive strategic solution pricing from market leading solution developers.

### **Refine Your Company's Production Reality**

Take the next step forward with us and enjoy the advantages delivered to your projects by Virtual Geomatics and their VG4D Production Manager suite.

### **Product Features**

- Stand-alone; no 3rd party software required
- Multi-user functionality
- LAS 1.1 and 1.2 compliant
- Real-time tracking and reporting
- Run large projects on multiple systems across networks
- Easy-to-use "one button" ground filter ability
- High throughput and quality than competitive products
- Integrates seamlessly with VG4D Data Manager™ to lower cost of ownership

### **Workflow Management**

- Process-oriented workflow manager
- Import flightlines or existing tiled data
- Database tracking of project and data flow status, including spatial view of project status
- Creation and monitoring of data tiles
- Record your own filtering macros
- Batch filter by tile or polygon selection using pre-recorded macros for different terrain types
- Create filtering scenarios to follow specified terrain characteristics
- Versatile and easy to use, one step ground filter for all terrain types
- Manual editing tools for final cleanup
- Export products such as GeoTIFFs, shaded relief, LAS, GIS product formats, DXF, BIN
- Product quality report and metadata generation
- Production metrics

**"Finally, a complete software application for processing, project management, filtering and visualization -- all in one solution. VG4D Production Manager™ is a welcome solution to any mapping operation's bottom line."**

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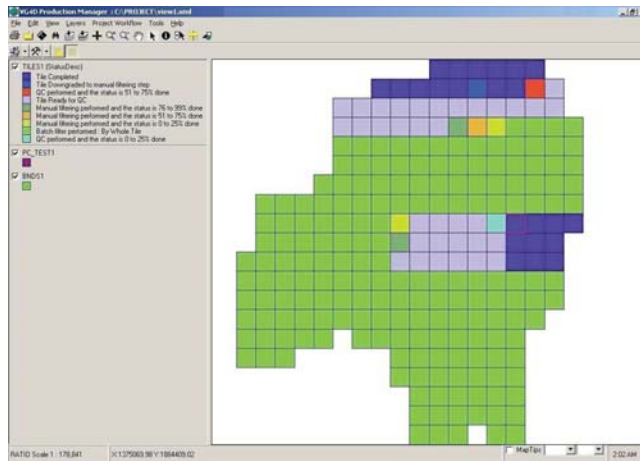


Figure 1. Powerful workflow-based project management views

## VG4D Production Manager™ Filtering

- Advanced pre-emptive filtering and editing tools,
- Easy-to-use "one button" ground filter ability
- Set of fully customizable filters:
  - High/Low point filter
  - Edge match filter
  - Classify by LiDAR Spectral Fusion (LSF)™
  - Multiple return analysis filter
  - Vegetation filter
  - Advanced vegetation filter
  - Ground filter
  - Ground modeling filter
  - Building clean-up filter
  - Classify nearby points
  - Noise filter
  - Reclassify
  - LSF color adjustment
  - Model key-point filter
- Custom parameter options for each filter to maximize filter accuracy

## Tool Box

- LiDAR Spectral Fusion (LSF)- LiDAR points attributed with spectral band information
- Import -ASCII, LAS, BIN, and GIS formats
- Export - Elevation, Intensity, Shaded Relief, LSF, GeoTIFF image files, LAS 1.2, ASCII, GIS formats, DXF, BIN
- Create and export 3D contours
- Reprojection options
- LAS and ASCII gridding
- Breakline drape/conflation
- LAS transformation - Adjust XYZ values, shift, scale, rotate
- Stand-alone quality report generation
- Point density calculation
- Advanced import /export product capability

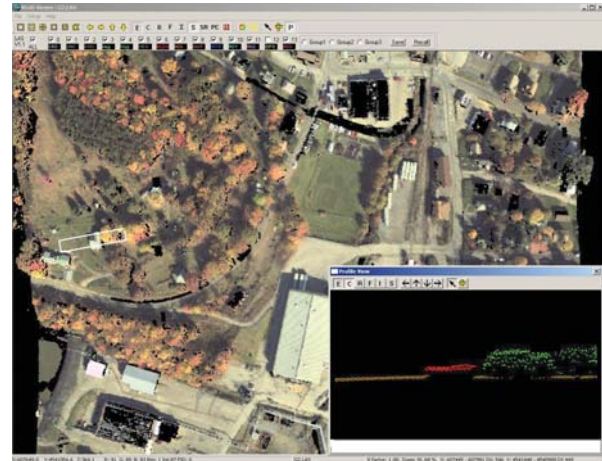


Figure 2. VG4D Production Manager / Viewer integration boosts efficiency with powerful 3D edit & display capabilities

## 3D Visualization

- Powerful and easy-to-use 3D data viewer
- Memory optimization allows visualization of very large datasets at one time
- Profile view editing
- Integrated manual editing and reclassification tools
  - Linked 2D/3D view - rapidly identify and visualize tiles for display, QC or editing
  - Intuitive 3D rotation
- Visualization modes include - shaded relief, elevation, return intensity shading, color by classification, color by flight line, pseudo contours and LSF
- One-button classification visualization
- Intuitive 3D rotation, panning, zoom tools, vertical exaggeration, azimuth, on-the-fly 3D TIN rendering, and on-the-fly 3D contour visualization
- GPS time, coordinate, return, intensity and filename readout by cursor location

## Project Management

- Metrics reporting
- Track time by machine
- Track time by task
- Track time by staff member
- Real-time database update during production/edit/quality control

Call for pricing and more information:

