

PR 4200557258

## VG Studio Max Material (w/ CT Reconstruction Option): Software Requirements

Description: Advanced Visualization and Analysis Software for Computed Tomography (CT) Volume Data

### Required Basic Functionality:

- Single seat, with USB license key
- 1-year maintenance including
- 64-bit Operating System Compatible
- Must be compatible with North Star Imaging x-ray computed tomography (CT) volume data
- Full-feature macro functionality across all software features
- Iso-surface for volumetric analysis on multiple channels (colors/densities)
- CAD file creation based off CT data
- 3D object counting/measurement, including void and particle analysis
- 2D clipping planes within 3D volume
- 3D volume transparency options
- 3D volume segmentation based on part regions of interest (ROI)
- 3D animations from multiple camera viewing angles (mpeg and avi capable), with fly-around feature

### Required Additional Capabilities

- Batch processing for multiple data sets
- Advanced porosity/inclusion search capabilities (automatic detection, multi-color classification, on-surface detection, local noise reduction/filtering)
- Advanced composite measurement capabilities (fiber volume, fiber direction, etc)
- Coordinate measurement capability, to include direct 3D manual and automated measurements, CT versus CAD volume deviations, and wall thickness measurements
- CT volume reconstruction capability, including GPU processing of cone beam, fan beam, parallel beam, planar, and helical CT