

QT READER™ vs. QT MODELER™ Comparison

QT Reader Versus QT Modeler Comparison

Features	QT Reader	QT Modeler
Basic Features		
Maximum Model Size (Points/Vertices)	200 Million Points/Vertices	200 Million Points/Vertices
Maximum Model Size (Area at 1 Meter Point Spacing/Posting)	200 sq km/77 sq miles	200 sq km/77 sq miles
Underlying CAD/GIS Software Required	None	None
Runs on standard PC desktop and laptop platforms.	Yes	Yes
Builds large surface models in minutes	N/A	Yes
Loads existing models in seconds	Yes	Yes
Navigates through models in real time	Yes	Yes
Import Capability: Raw Data		
ASCII XYZ (with or without intensity)	No	Yes
LAS	No	Yes
ESRI Grid ASCII	No	Yes
Floating Point Raster	No	Yes
Optech Comprehensive	No	Yes
Raw Binary	No	Yes
Decimate Raw XYZ, LAS and Optech Comprehensive Data on Input	No	Yes
Import/Open Existing Models		
.QTT - QT Standard Surface Model	Yes	Yes
.QTC - QT Point Cloud	Yes	Yes
.QDT - QT DTED	Yes	Yes
.DTx - Standard DTED	Yes	Yes
GeoTIFF DEM	Yes	Yes
Saves loadable multiple model tile lists and texture data.	Yes	Yes
Open multiple models simultaneously	Yes	Yes
Build New Models		
.QTT - QT Standard Surface Model	No	Yes
.QTC - QT Point Cloud	No	Yes
.QDT - QT DTED	No	Yes
Export Capability		
GeoTIFF - 32-Bit DEM	No	Yes
Geo TIFF - Intensity	No	Yes
Geo TIFF - Image	No	Yes
ASCII – With B/W intensity or RGB intensity	No	Yes
Floating Point Raster	No	Yes
AutoCAD DXF (Contour and Grid Lines Only)	No	Yes
Raw Binary	No	Yes
TIFF (Screen Shots)	Yes	Yes
BMP (Screen Shots)	Yes	Yes
Print Screen	Yes	Yes
AVI Movies (Fly-through's)	No	Yes

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Analysis Features		
Flood Simulation	No	Yes
Slope Analysis	No	Yes
Change Detection	No	Yes
Volume Calculation	No	Yes
Data Density Analysis	No	Yes
Point Interrogation Utility	No	Yes
Multiple Parallel Cross Section	No	Yes
Altitude Synchronization	No	Yes
Model Merging	No	Yes
Cross Section Export	No	Yes
Line of Sight Analysis (Viewshed Analysis) with settable raytrace resolution -USA Distribution Only	No	Yes
Mensuration of point locations and line segments – including height profiles/cross sections.	Yes	Yes
Displays data as solid models, point clouds, or both.	Yes	Yes
Generates customizable contour lines and grid lines.	No	Yes
Performs customizable altitude coloration.	Yes	Yes
Turn Model Colors On/Off	Yes	Yes
Turn Altitude Coloration On/Off	Yes	Yes
Turn Loaded Textures On/Off	Yes	Yes
Overlays photos and/or textures (Orthorectified, Orthographic, and/or Projective)	Yes	Yes
Sun position settable by geographic position and time of day.	Yes	Yes
Calculates geo-correct lighting and shadows.	Yes	Yes
Multiple movement controls: model, flight, terrain following, targeted point, or constant altitude.	Yes	Yes
Select/Cut/Crop Models	No	Yes
View model statistics at the push of a button	Yes	Yes
Converts DTED's to UTM	Yes	Yes
Display Features		
Saves recordable and playable movies (QTV and AVI).	No	Yes
Saves loadable perspective views.	Yes	Yes
User customizable markers	Yes	Yes
Auto size points in point clouds	Yes	Yes
Selectable Smoothing Function	Yes	Yes
Simulate environmental conditions (Haze, light, shadows, sky)	Yes	Yes
Show Wireframe of surface model	Yes	Yes
Show Compass	Yes	Yes
Mini Map	Yes	Yes
Windows drag/drop support.	Yes	Yes
Other Features		
Built in Help File	Yes	Yes
Maintenance Agreement Available	No	Yes
Hardware Key (USB Dongle) Available	No	Yes