**MAIN FEATURES DI APS:**

APS is the powerful and widely tested photogrammetry software suite for massive and accurate UAV data processing. Aps is the all-in-one intuitive software that transforms UAV images into professional-grade mapping products. You can process thousand of images all at once and generate DSM, point cloud, DTM, contour lines, orthomosaic, true orthomosaic and more.

---

**WHAT IS NEW IN VERSION:**

- Added 2 new bundle strategy:
  1. Incremental GPU
  2. Incremental CPU
- True Orthophoto Generation

---

**APS REQUIREMENTS:**

- Operating System: Windows 7 / 8 / 8.1 / 10 64bit
- CPU: i3 / i5 / i7 or equivalent
- RAM: at least 4 GB
- nVidia GeForce graphic card for GPU computing or nVidia Quadro graphic card for stereo support. More info on stereoscopic hardware

---

**SOFTWARE VERSION**

APS is available in Standard version that it supports images up to 96 MPix, for trial purposes is available an APS remote license, to test APS with your datasets. Remote license includes all features. APS supports 64 bit Windows versions.

---

**GENERAL FEATURES**

<table>
<thead>
<tr>
<th>RTK data support</th>
<th>Area of interest and holes management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic camera calibration extraction</td>
<td>DSM generation</td>
</tr>
<tr>
<td>Import images from any Drone/UAV (TIF, JPG)</td>
<td>3D point cloud generation</td>
</tr>
<tr>
<td>Multithread powerful</td>
<td>Textured Mesh generation</td>
</tr>
<tr>
<td>Camera passport self-extraction</td>
<td>Automatic DTM (ground) filtering</td>
</tr>
<tr>
<td>Multisensor (RGB and NIR) project support</td>
<td>Contour lines generation</td>
</tr>
<tr>
<td>Automatic saving/restoring</td>
<td>Seamlines generation and editing</td>
</tr>
<tr>
<td>CAD template management</td>
<td>Orthomosaic generation</td>
</tr>
<tr>
<td>Import images without IMU angles data</td>
<td>Multilanguage support</td>
</tr>
<tr>
<td>Import thousand of images all at once</td>
<td>Orthomosaic manual correction support</td>
</tr>
<tr>
<td>Images selection by flight plan</td>
<td>True Orthomosaic Generation</td>
</tr>
<tr>
<td>GPS data extraction from EXIF</td>
<td>Help tutorial</td>
</tr>
<tr>
<td>Import GPS data expressed in different formats</td>
<td></td>
</tr>
<tr>
<td>Import GCP, collimation and visualization</td>
<td></td>
</tr>
<tr>
<td>Image quality automatic evaluation</td>
<td></td>
</tr>
<tr>
<td>Five bundle algorithms with editable parameters</td>
<td></td>
</tr>
<tr>
<td>Exaustive aerial triangulation report</td>
<td></td>
</tr>
<tr>
<td>GPU support</td>
<td></td>
</tr>
<tr>
<td>Automatic raster overview generation</td>
<td></td>
</tr>
<tr>
<td>Check Points easy management</td>
<td></td>
</tr>
<tr>
<td>Ground Control Points easy management</td>
<td></td>
</tr>
</tbody>
</table>

---

**TOOLS AND EXTERNAL MODULES**

<table>
<thead>
<tr>
<th>Linear distance evaluation</th>
<th>Area evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Footprints evaluation</td>
<td>Camera position view</td>
</tr>
<tr>
<td>Status and output log view</td>
<td>Graphical project workflow management</td>
</tr>
</tbody>
</table>

---

for more information write to: contact@menci.com
### Summary project information
- Sheet layout generation
- Automatic image quality evaluation
- Precheck of flight data (APSCheck)
- Google Earth streaming ready (Google Earth Tiler)
- Inspection, measure, 3d draw (StereoCAD)
- DEM editing tools (TerrainTools)
- Point Cloud display
- Mesh display

### DTM
- Import from geotiff
- Automatic DTM resolution step
- Automatic ground filtering with scenario optimization
- DTM generation report
- Export to classified las, geotiff, ASCII

### ORTHOMOSAIC
- Automatic seamlines generation
- True Orthophoto generation
- Editable seamlines generation
- Radiometric balancing
- Tiles setup and import
- Tiles export (DXF, DWG, SHP)
- Custom orthomosaic resolution step
- Automatic orthomosaic generation
- Support orthomosaic external editor
- Orthomosaic generation report
- Orthomosaic export to TIF, JPG
- Export with custom bands composition
- Google Earth Tiler export

### CONTROL POINTS / CHECK POINTS
- Import points from custom ASCII file
- User-friendly monoscopic collimation process
- Image matching collimation aids
- Use of GCP to refine the extracted camera passport

### INTERNAL - EXTERNAL ORIENTATION
- Camera passport import and editing
- Automatic camera passport extraction
- Automatic aerial triangulation process
- Automatic internal and external orientation

### CAD TOOLS
- All common edit commands (move, rotate, scale, ...)
- Common zoom and pan functions
- Grid & coordinatograph
- Layers management and order
- Line weight edit
- OSnap management
- Grid edit
- Point, polyline and spline entities
- Text
- Hatch
- CAD options editing
- Stereo CAD option
- Direct plotting on orthophoto

### DSM AND POINT CLOUD
- Radiometric balancing
- Define DSM step generation
- Automatic DSM generation
- Automatic point cloud generation
- View huge point cloud streaming
- Export to geotiff, las and ascii
- Export with custom bands composition
- DSM generation report

### 3D MODEL SUPPORT
- 3D orbit rotation, zooming, pan
- Custom 3D point size
- Custom level of detail
- RGB visualization
- Elevation visualization (false color)
- Preset 3D views
- Export 3D point cloud stream to XYZ, XYZRGB, LAS, LAZ

### COORDINATE SYSTEM MANAGEMENT
- UTM WGS 84 support
- Set/import with EPSG code
- Set/import with WKT string
- Online selection check on Google Maps

### CONTOUR LINES
- Custom contour lines step
- Contour lines automatic generation
- Export Contour lines (DWG, DXF, SHP)