APS 8.1.2

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

RTK data support
Automatic camera calibration extraction
Import images from any Drone/UAV (TIF, JPG)
Multithread powerful
Camera passport self-extraction
Multisensor (RGB and NIR) project support
Automatic saving/restoring
CAD template management
Import images without IMU angles data
Import thousand of images all at once
Images selection by flight plan
GPS data extraction from EXIF
Import GPS data expressed in different formats
Import GCP, collimation and visualization
Image quality automatic evaluation
Five bundle algorithms with editable parameters
Exaustive aerial triangulation report
GPU support
Automatic raster overview generation
Check Points easy management
Ground Control Points easy management

Area of interest and holes management
DSM generation
3D point cloud generation
Textured Mesh generation
Automatic DTM (ground) filtering
Contour lines generation
Seamlines generation and editing
Orthomosaic generation
Multilanguage support
Orthomosaic manual correction support
True Orthomosaic Generation
Help tutorial

TOOLS AND EXTERNAL MODULES

Linear distance evaluation
Area evaluation
Footprints visualization
Camera position view
Status and output log view
Graphical project workflow management

for more information write to: contact@menci.com

APS 8.1.2

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

INTERNAL - EXTERNAL ORIENTATION

Camera passport import and editing
Automatic camera passport extraction
Automatic aerial triangulation process
Automatic internal and external orientation

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

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

CONTOUR LINES

Custom contour lines step
Contour lines automatic generation
Export Contour lines (DWG, DXF, SHP)

DTM

Import from geotiff
Custom 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

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

COORDINATE SYSTEM MANAGEMENT

UTM WGS 84 support
Set/import with EPSG code
Set/import with WTK string
Online selection check on Google Maps