

Automatic Collection ProPack (Tie Point and Fiducial Marks)

AUTOMATIC COLLECTION PROPACK

Extend the functionality of the PCI ProSDK through the Automatic Collection ProPack, which enables the flexible use of PCI Geomatics' automatic tiepoint and fiducial mark localization technology

The Automatic Collection ProPack consists of core PCI Pluggable Functions (PPFs) for collecting and refining between-image tiepoints (AUTOTIE and TPREFN, respectively) and for collecting fiducial marks from digitized aerial photographs. Other PPFs are included to provide complementary operations, as described below.

SOME OF THE INCLUDED COMPLEMENTARY PPFs

Ground Control Point (GCP) and Tie Point (TP) Management

- GCPIMPORT
 - Imports GCP data from a GCP segment in a PCIDSK file into an OrthoEngine project file.
- GCPREAD
 - Imports ground control point data from a text file into a GCP segment in a PCIDSK file.
- GCPWRIT
 - Exports ground control point data from a GCP segment in a PCIDSK file to a text file.
- GCPPRO
 - Converts input ground control points (GCPs) to the specified output units.
- GCPEXPORT
 - Exports GCP data from an OrthoEngine project file into a GCP segment in a PCIDSK file.

- GCPELEV
 - Obtains elevations for GCPs from a DEM
- TPIMPORT
 - Imports tie point data from a text file into an OrthoEngine project file.
- TPEXPORT
 - Exports tie point data from an OrthoEngine project file to a text file.

Digital Elevation Model (DEM) Creation

- VDEMINT
 - Generates a raster DEM from elevation data in vector layers and observes 2D breakline constraints.
- NNINT
 - Generates a raster DEM from spot elevations read from a raster, using natural neighbour interpolation.

DEM and Vector Elevation Reference Transfer

- DEMZREF
 - Transforms raster DEM elevation values from mean sea level to ellipsoidal.
- VECZREF
 - Transforms 3D vector elevation values from mean sea level to ellipsoidal.

Image Management

- IMERGE
 - Merges multiple geocoded rasters into a single file.

Technical Specifications

- REPROJ
 - Reprojects images, bitmap segments and vector layers to a specified projection.
- CLIP
 - Clips layers based on a user defined clip region.
- TILE
 - Creates multiple subset tiles from a single file.
- PYRAMID
 - Builds an image pyramid for each of one or more image channels in a file

For more information, contact

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