HOLISTIC IMAGING™

VISUALIZE THE WORLD

UnlimitedOrtho™

User Guide

Version 1.1.

CONTENTS

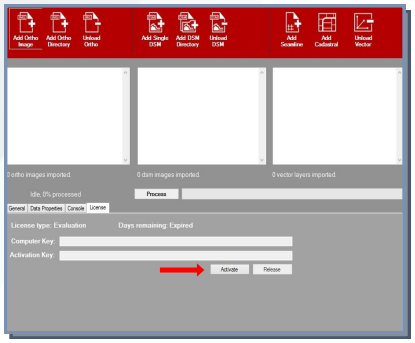
INSTALLATION and ACTIVATION of UNLIMITEDORTHO™

Run UnlimitedOrtho_Setup to install UnlimitedOrtho.

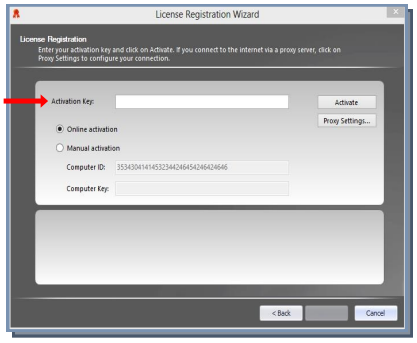
After reading the EULA, check „I Agree“, then follow the instructions

The first time you launch UnlimitedORtho you have to activate your license.

Click on Activate in order to start the activation procedure



Enter your activation key into the text field and then click activate to authenticate UnlimitedOrtho.



If you experience any problems with installing UnlimitedOrtho or activating your license please contact support@meixnerimaging.com

INTRODUCTION

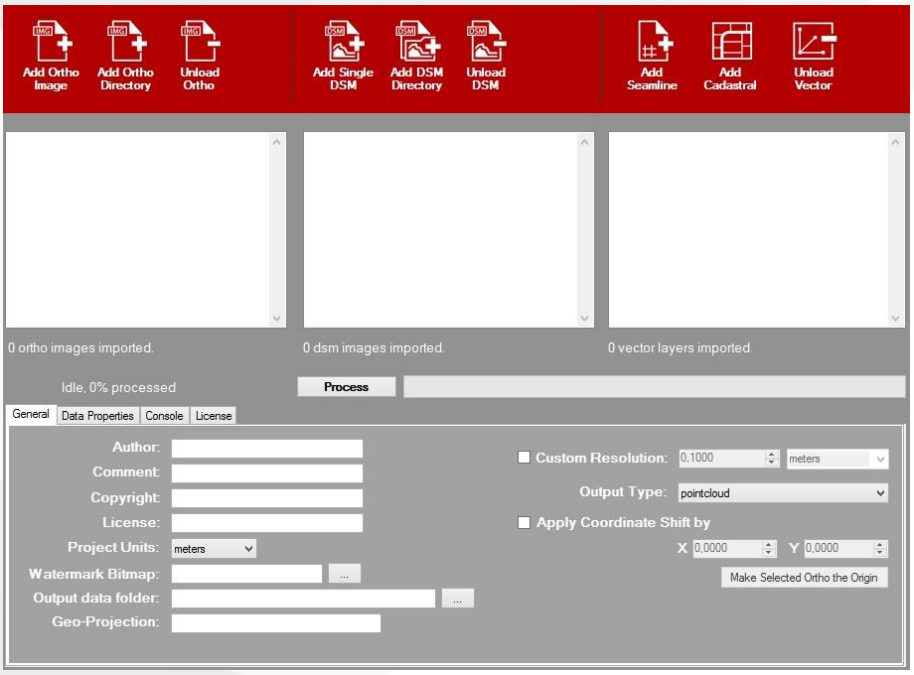
UnlimitedOrtho™ is a revolutionary new geospatial software that reduces the hardware costs behind handling, displaying and interacting with unlimited amounts (140TB) of orthophotos and digital surface models.

Based on Euclideon's Unlimited Detail technology, UnlimitedOrtho™ offers features which target the visualization and interaction with orthophotos including the ability to:

° Take precise measurements and digitize points.

° Add height information to 2D orthophotos for better Quality Control.

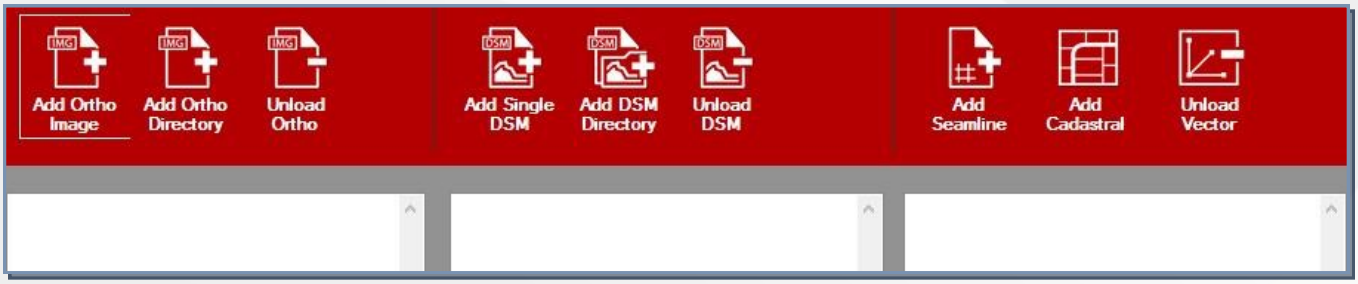
° Overlay vector information to orthophotos (seamlines, cadastral boundaries, Ground control points).



The UnlimitedOrtho™ User interface

Please note that Geoverse Convert and Geoverse MDM are required to be installed in order to run UnlimitedOrtho™

TOOLBAR OVERVIEW



Add Ortho Image
Adds individual ortho images (.tif) to the conversion list. *Please note that the corresponding .tfw file must be in the same directory.*

Add Single DSM
Adds individual DSM images (.tif) to the conversion list. *Please note that the corresponding .tfw file must be in the same directory.*

Add Ortho Directory
Adds all ortho images (.tif) in a directory to the conversion list. *Please not that all .tfw files must be in the same directory.*

Add DSM Directory
Adds all DSM images (.tif) in a directory to the conversion list. *Please not that all .tfw files must be in the same directory.*

Unload Ortho
Removes selected ortho image from the conversion list

Unload DSM
Removes selected DSM image from the conversion list

Add Seamline
Adds selected seamline file (.dxf) to the onversion list

Unload Vector
Removes selected vector file (.dxf) from the onversion list

Add Cadastral Map
Adds selected cadastral map file (.dxf) to the onversion list

Process Button
As soon as all necessary data is loaded, press the PROCESS button to launch the program.
On the left side you can see the conversion progress (how many images are processed).

GENERAL SETTINGS

PROJECT UNITS
The project units are required to be set to the same unit type (cm, m, etc.) as what the input data uses. before converting it is advised to test a small sample first to verify the settings are correct. This setting determines the unit type for all loaded files.

WATERMARK BITMAP
You can provide an image file (png) here which will appear as a watermark over your screen when viewed in Geoverse MDM (company logo, etc.). Images supplied will be rescale to maximum size of 256 x 256.

OUTPUT DATA FOLDER:
Definition of the directory for the uds files.

GEO-PROJECTION
Provide a GIS projection to describe the Euclidean space to project into. (EPSG format–e.g. EPSG:32617).

CUSTOM RESOLUTION
Set the 'physical' size for each point. Before converting it is advised to test a small sample first to verify you are happy with the settings.

GEO-PROJECTION
Check this box in order to override the auto-resolution settings defined in the tfw files.

OUTPUT TYPE
Enables users to compute triangle mesh or point cloud.

APPLY COORDINATE SHIFT BY
Shift the output laterally by a specific value (e.g. -5.000.000)

DATA PROPERTIES SETTINGS

FILENAME
Filename of input ortho image

DSM:
Filename of input DSM image (if applicable)

TARGET FILENAME:
Set the name for the output file (by default same name as Filename + uds)

GEOMETRY UNITS
Shows the values for the geometry units stored in the corresponding tfw file.

RESOLUTION
Shows the 'physical' size for each point stored in the corresponding tfw file.

INPUT GEO-PROJECTION
Existing GIS Projection specifies the source projection of the incoming data (typically WGS84 for Latitude/ Longitude).

TARGET GEO-PROJECTION
Output Transform specifies the final coordinate system to be used in the converted file.

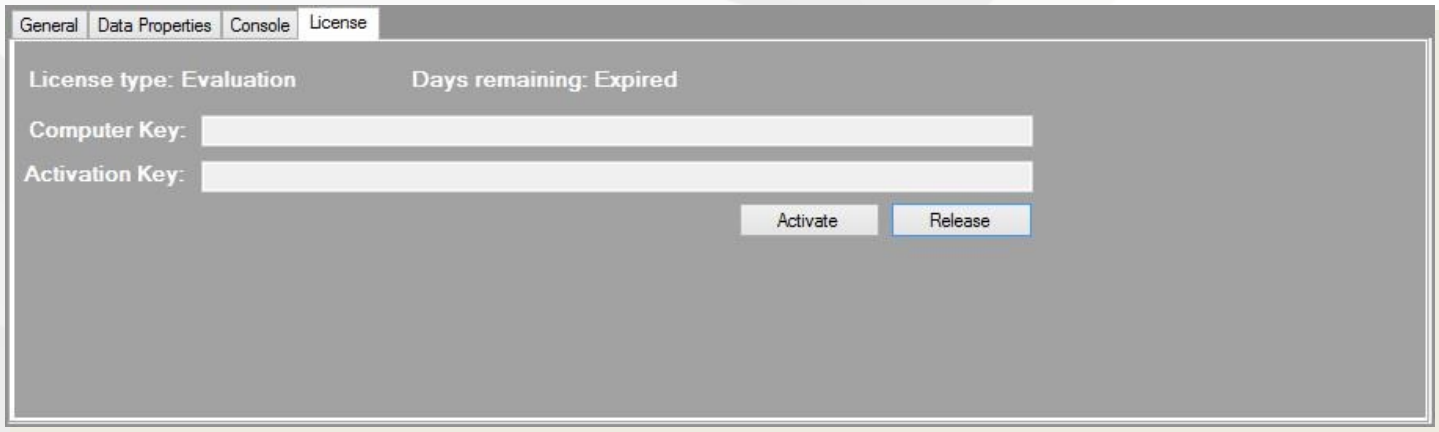
COLOR FORMAT
The precision of how the data is stored in the final data set.Trading size for accuracy. RGB 8 palette is typically fine for most datasets.Selecting Grayscale will source the color from the point intensity values and will activate the intensity range options.

REVERSE XY
The Reverse XY allows you to input data that is Latitude/Longitude.

TILE ORIGIN
Shows the coordinates of the top left pixel of the image stored in the corresponding tfw file.

ADDITIONAL SETTINGS

CONSOLE SCREEN
Records important events, errors and notifications that have occurred during the conversion process.If your conversion fails, make sure you check the file log to ascertain the reason.



LICENSE TYPE and DAYS REMAINING:
Shows the type of installed software license and the remaining days.

COMPUTER KEY:
Shows the ID of this computer

ACTIVATION KEY
Shows ID of software license installed on this computer.

ACTIVATE
In order to register your software please click on the activate button.

RELEASE
In order to delete the license for this computer press this button

FAQ

Can the program read the header information of a Geo-tif?

Can the program visualize RGB8 Bit images

Can the program visualize RGB16 bit images

Can the program visualize RGBI images

Is it possible to visualize vector data using UnlimitedOrtho1.1.

Is it possible to combine Orthophotos and Digital surface models with different resolutions.

Can I colorize my LiDAR point cloud using Orthophotos?

Is the program running on a 32bit operating system?

Minimum System Requirements	Recommended System Requirements
Computer Processor (CPU): 64bit 1.5 GHz	*Computer Processor (CPU): 64bit 3.0 GHz Quad Core*
Computer Memory (RAM): 1 GB	*Computer Memory (RAM): 4 GB*
Hard Disk (HDD): 1.5 GB available space, 5400 rpm	*Hard Disk (HDD): 2 TB 7200 rpm*
Graphics Card (GPU): DirectX 9 Compatible	*Graphics Card (GPU): DirectX 9 Compatible*
Operating System (OS): Window Vista	*Operating System (OS): Window 7*