

Setup: Public Function Header Files



- Setup installs three C header files as documentation for public functions:
 - \terra64\include\photo_functions.h general public functions
 - \terra64\include\photo_types.h data types used

Various Improvements



- Create Tile Array has new numbering options: East to west and West to east
- Convert time in Manage Camera Trajectories shows conversion result for first time stamp
- Manage Raster References regonizes *.wld files as georeferencing for ortho rasters
- Define Camera dialog is smaller and fits better on screen on a low resolution display
- User trajecotry file formats support rotation as quaternion values
- Support for Alpha channel in ECW/JPEG2000 images

Intensity Correction Grid

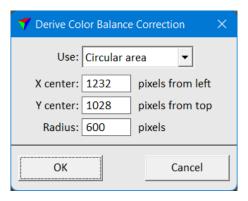
- Intensity grid button in **Define Color Corrections** has new option **Manual entry** for manual intensity correction grid
- Correction grid changes brightness of different parts of raw images whenever TerraPhoto makes use of a raw image
- Correction is saved in an image list file



Derive for Color Balance Correction



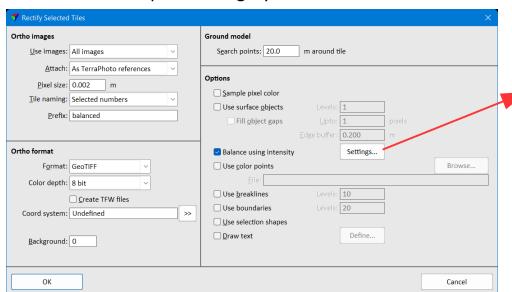
- Derive button in Define Color Correction can compute a grey balance correction for selected images
- You specify an area of the image which should be grey
- Useful for mobile images which should always see an asphalt road surface

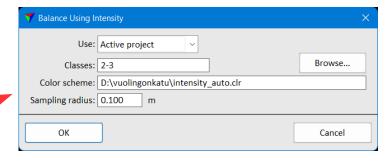


Intensity Balanced Ortho



- Rectify mosaic can produce an orthophoto where local brightness comes from laser intensity intensity
- Can produce an orthophoto which does not suffer from changes in brightness as much as camera images
- Laser intensity gives local brightness
- Camera image gives color and relative brightness of each pixel to its surrounding
- You can choose to produce a grey scale ortho or a color ortho





Intensity Balanced Ortho



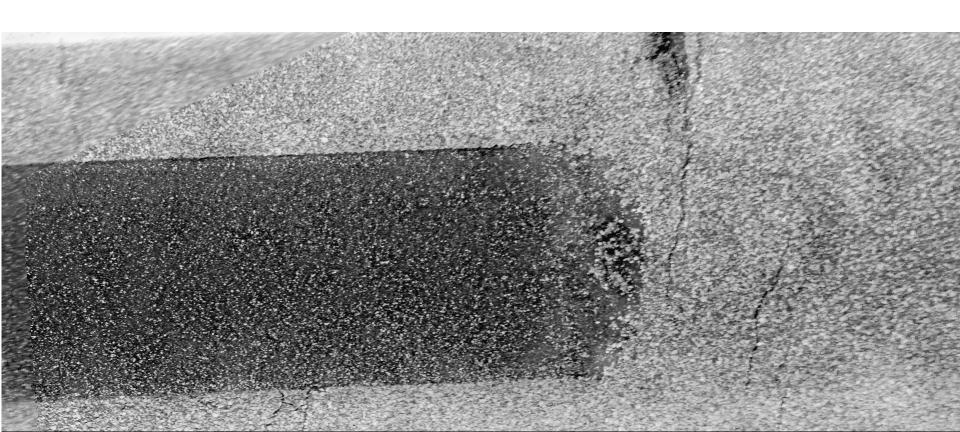
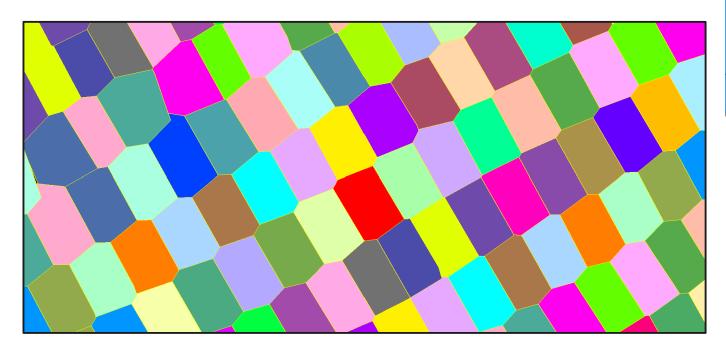


Image Colors

- Each image in the image list gets its own display color from a table of 61 colors
- Color information is saved when you save an image list
- Define color points mode will use this when coloring by image assignment
- Change image color lets you swap an image color





▼ Color Point Display ×				
<u>V</u> iew: 1				
Raster: Image	Raster: Image assignment			
Draw color points				
☑ Draw seamlines				
Selection shapes				
<u>A</u> pply	A <u>l</u> l views			

Improvements in 'Draw locations'

- You can choose how line color and how fill color is selected
- You can choose Image color
- You can specify transparency level in MicroStation version





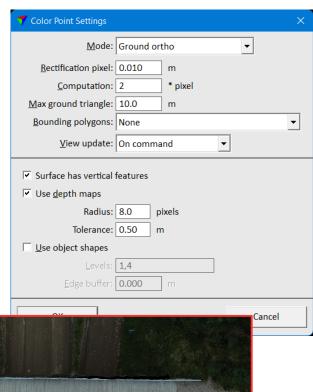
	7 Draw locations	5		×
	<u>D</u> raw:	Footprints	~	
	Projection:	Approximate	~	
_	<u>C</u> amera:	Any camera	~	
	<u>I</u> mages:	All	~	
	Tie <u>v</u> alue:	Any	~	
	<u>T</u> ie status:	Any	~	
	<u>L</u> ine color:	Active color	~	
	<u>F</u> ill color:	Image color	~	
	Transparency:	70%		
	<u>L</u> abel:	None	~	
\	ОК		Cancel	

Depth Maps in Ortho Production

- Produce a true ortho without vectorizing buildings
- Workflow:
 - Classify building roofs (and bridges) carefully
 - Compute depth maps using class 6 Building (and 11 Bridges)
 - Set **Use depth maps** on when working with color points
 - Set Use depth maps on in Rectify orthomosaic



Normal ortho rectified to ground





Top surface ortho with depth maps