Agisoft PhotoScan Workflow

Steps	Menu	Function	Action
Photo Setup, Alignment, Adjustment			
1	Main Menu - Workflow	Add Photos	Navigate to directory with photos. Select and add all necessary photos for project
2	Reference Panel - Settings	Set Coordinate/Projection	Select the Coordinate System (Local, Geographic, Projected) and Select Projection (i.e. WGS84)
3	Main Menu - Tools	Camera Calibration	Check to make sure that all the photos with the same focal distance/parameters are grouped together
4	Main Menu - Workflow	Align Photos	Settings: high, generic or referenced, 60,000, 0
5	Reference Panel - Optimize	Initial Bundle Adjustment	\square Check on: f , cx , cy , $k1$, $k2$, $k3$, $p1$, $p2$
Error Re	eduction & Bundle Adjustmen	t	
6	Main Menu - Edit	Reconstruction Uncertainty	Set Level: 10 (if more than 50% of pts are selected, increase the level to a higher value (limit 50))
	Gradual Selection	(Geometry)	Delete the points, Optimize
			☑ Check on: f, cx, cy, k1, k2, k3, p1, p2
			Repeat and least 2 times and continue to lower the level closer to 10 without having to delete points
			Monitor: Projections goal not less than 100, Error (pix) goal = .3, SEUW = 1.0
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7	Main Menu - Edit	Projection Accuracy	Set Level: 2 - 3 (if more than 50% of pts are selected, increase the level to a higer value (i.e. 3))
	Gradual Selection	(Pixel Matching Errors)	Delete the points, Optimize
			☑ Check on: f, cx, cy, k1, k2, k3, p1, p2
			Repeat and least 2 times and continue to lower the level closer to 2 without having to delete points
		Tighten Tie Point Accuracy Value	Change the settings of the tie point accuracy (pix) from 1 to .1
			Optimize
			☐ Check on (all): f, cx, cy, k1, k2, k3, k4, b1, b2, p1, p, p3, p4
			Monitor: Projections goal not less than 100, Error (pix) goal = .3, SEUW = 1.0
8	Main Menu - Photo	Add Control Points (Markers)	Import in the ground control points (if available), manually select or use autodetection on individual images
ŭ	Edit Markers	Add Scale Bars	Select the Coordinate System (Local, Geographic, Projected) and Select Projection (i.e. WGS84)
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9	Main Menu - Edit	Reprojection Error	Set Level: .3 (if more than 10% of pts are selected, increase the level to a higher value)
	Gradual Selection	(Pixel Residual Errors)	Delete the points, Optimize
			☑ Check on (all): f, cx, cy, k1, k2, k3, k4, b1, b2, p1, p, p3, p4
			Repeat until reaching the .3 level without having to delete points
			Monitor: Projections goal not less than 100, Error (pix) goal = .3, SEUW = 1.0
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Build D	ense Point Cloud, Mesh, Textu	ure, DEM, Orthomosaic	
10	Main Menu - Workflow	Build Dense Cloud	Quality: High, Med, Low Depth Filtering: Agressive
		Build Mesh	Height Field, Dense cloud, High Interpolation: Enabled
		Build Texture (optional)	Orthophoto, Mosaic
		Build DEM	Set Coordinate System/Projection, Dense Cloud, Enabled
		Build Orthomosaic	Geographic, Set Coordinate System/Projection, Mesh, Mosaic