

Application note: How to register images from Sequoia single-band cameras

This application note describes the relative positioning of the single band sensors of Sequoia.

Useful information regarding the formalism can be found on the Pix4D support website [1]: <https://support.pix4d.com/hc/en-us/articles/202559089-How-are-the-Internal-and-External-Camera-Parameters-defined-#label3>

For Sequoia, the information are stored in the following tags:

Xmp.Camera.RigRelatives	String	degree	Rig relatives: rotX, rotY, rotZ separated by comma as defined in [1]
-------------------------	--------	--------	--

The translation coefficients T_{rel} as defined in [1] are supposed constant and as follows:

Translations x, y, z [mm]:

Green : 0, 0, 0 (master camera)

Red: 0, -15, 0

Red edge: 15, 0, 0

NIR: 15, -15, 0

Note that due to the thermal expansion of the camera, these parameters may evolve over time and for optimal precision we recommend the use of photogrammetry.

Due to continuous updates of our products, some tags may be missing in your images.

If so please check that you updated your camera to the latest firmware available.

If the problem persists, contact us at sequoia@parrot.com to discuss recalibration options.