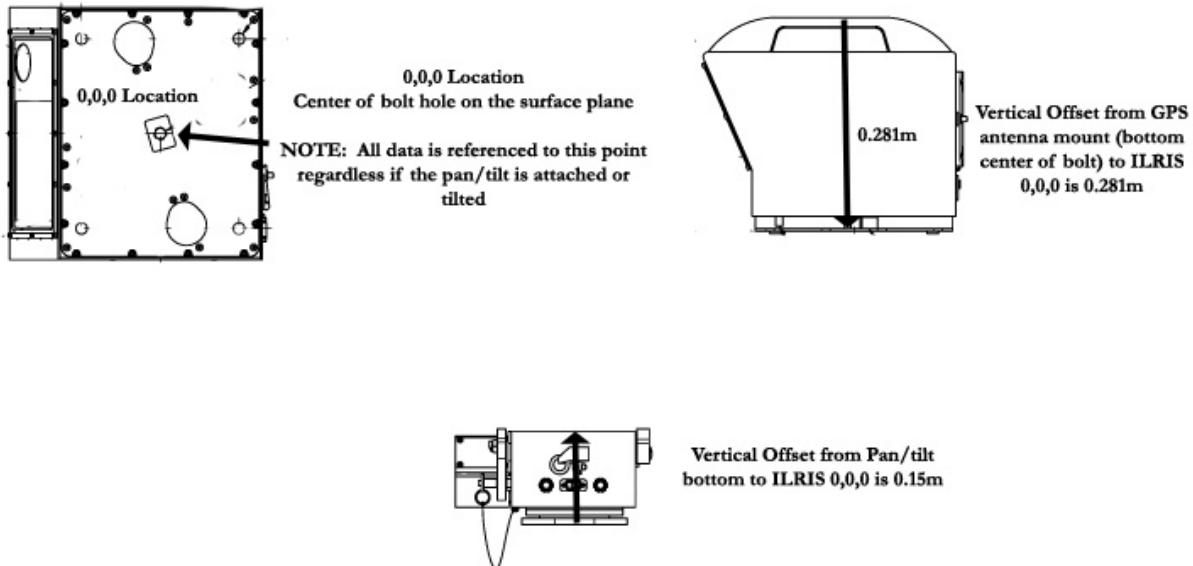


Optech ILRIS-3D Offset and Georeferencing and Calibration Information

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Optech ILRIS-3D Calibration Information

ILRIS OFFSET AND GEOREFENCING



Example1: GPS Point collected with Antenna Mounted to the GPS antenna mount:

GPS COORDINATE FOR ILRIS = GPS point - Antenna Height (Z) - 0.281m (Z)

Note: The equation is the same with or without the pan/tilt attached.
It is also the same with tilted scans using the pan\tilt as long as the GPS point is collected when the scanner is level

Example2: Control point on the ground with ILRIS only:

CONTROL COORDINATE FOR ILRIS = CONTROL Coordinate + Tripod Height (Z)

Example3: Control Point on ground with ILRIS and Pan/tilt:

Pan/tilt calibration

Internal camera calibration

External camera calibration

External camera calibrations are specific to the instruments used; the following calibration parameters were provided to UNAVCO by Optech specifically for the UNAVCO Optech Ilris 3D scanner with a Nikon D300 camera and a Nikon 20mm lens. These parameters serve only as an external camera calibration example.

Online URL:

<https://kb.unavco.org/article/optech-ilris-3d-offset-and-georeferencing-and-calibration-information-513.html>