

NOTES

FIRST TIME NEED TO CONFIGURE GEOSYSMANAGER. COPY FILES FROM GEOSYS FOLDER TO
C:\Program Files\RiegI_LMS\GeoSysManager 2

NEED MOUSE WITH ROLLER AND 3 BUTTONS

Scanner has auto registration in hardware. Recommend to off cos it takes a lot of power. Can do registration using laptop later

Calibration -> mounting ->

Assume there are 10 measurement points. If camera was not removed, just need one calibration

If camera was repositioned after the 5th measurement, need 2 calibration

CALIBRATIONS -> MOUNTING -> RIGHT CLICK -> AUTOMATIC CAMERA MOUNTING ADJUSTMENT

SELECT ALL

CAMERA MOUNTING : NEED TO CHECK. ESPECIALLY IF U REMOVED THE CAMERA BETWEEN READINGS. YOU WILL NEED TO GENERATE MOUNTING FOR EACH TIME IT IS INSTALLED

CHECK WITH SAM ON THIS

TO COLOURISE POINT CLOUDS – CALIBRATE CAMERA MOUNT FIRST– CLOSE WINDOW – SELECT ALL POINT CLOUD – RIGHT CLICK – COLOUR FROM IMAGE – NO CHANGES TO SETTINGS – CLICK OK

FOR ACCURATE X-Y-Z, GO TO POP -> ATTRIBUTES -> CALCULATE POP FROM GPS COORDINATES -> SELECT ONE LAYER WHAT WAS SCANNED WITH R10 ON -> SELECT GLCS (GLOBAL COORDINATE SYSTEM) -> PRESS TOP VIEW -> ORIENTATIONS SHOULD BE CORRECT NOW

Recommended steps:

1. Create project
2. Import
3. Filter
4. Register
5. Multi station adjustment
6. Mounting calibration
7. Colour scan

Need dongle

Open riscan

License manager

New project

Import scans – download and convert

Filter – trial and error, use Isolated point and by attribute. Refer to video and photo

Registration 2

Multi station adjustment 2

Find point cloud icon, 3 icons per scan. Then click select all

Check overlay of all scans to see if they are aligned to satisfaction

Hold D and click to rotate slowly

Press H to open height filter, click and drag to desired height

Point cloud icon -> right click -> convert scan use this to revert to original unfiltered point cloud

SELECT LASSO AREA YOU WANT , HOLD SPACE BAR

COPY SELECTION INTO NEW POINT CLOUD – TO GENERATE NEW LAYER WITH JUST THE STUFF YOU WANT

EXPORT, IS NEXT TO SELECT ALL LAYER

COMPATIBILITY MODE: "EXCLUDE EXTRA BYTES" = UNCHECK, LAS DOES NOT READ SUCH INFORMATION.

-GEOSYSMANAGER IS WHAT REGIAL USES FOR GEO REFERENCING. JUST USE WHAT THEY GIVE

OR GO ONLINE AND DOWNLOAD - EPSG CODE IS 3414

FOR ELIPSOIDAL HEIGHT THAT IS OK

Battery cannot be discharged fully. Nickel hydride batt.eveey six months need to undergo battery discharge n charge cycle

Small GPS for scanner setting is internal small