

## HOW TO GUIDE: Elevation Accuracy

This document describes the installation of the elevation accuracy unlock code.

### Description

The mojoRTK system limits the accuracy of the elevation output in the NMEA messages.

- Accuracy limiting is performed by adding random variations in addition to the calculated elevation
- Unlocking the high accuracy elevation disables the addition of this variation

### Benefits

Unlocking the elevation accuracy allows the mojoRTK console to provide more accurate elevation information to systems which support NMEA input.

### Limitations

- Unless the Accurate NMEA Output unlock code has also been installed the height will be the height of the red antenna, not the elevation of the ground
- The accuracy of the height produced will vary depending on the locations of the GPS/GLONASS satellites being used by the mojoRTK console
- Once the elevation accuracy has been unlocked it will remain on until the unlock code expires
- The absolute accuracy (as opposed to relative accuracy) is completely governed by the absolute accuracy of the base station position. If the base station is not running in fixed position mode with a surveyed position entered into the base then the absolute accuracy of the entire system is limited by the absolute position accuracy of the base station

### Required Items

- Software elevation accuracy Unlock Code
  - Elevation Accuracy **9200008**

## Configuration

### Installing elevation accuracy manually on the mojoRTK console

1. Switch on the mojoRTK console
2. Press the OK button to enter the main menu
3. Select Settings - > Extended Features - > Enter New Code
4. Enter the 16 digit unlock code by using the main dial to select the value for a digit and pressing OK or Escape to move between digits
5. After the code has been accepted the mojoRTK console will restart and elevation accuracy will be unlocked

### Installing elevation accuracy using Virtual Wrench™ on the mojoRTK console

1. Switch on the mojoRTK Console
2. Press softkey 3 twice to bring up the Virtual Wrench™ connection screen
3. Select 'Yes' and press the OK button to connect to Virtual Wrench™
4. Once connected the elevation accuracy unlock code will be automatically downloaded and installed
5. After the code has been accepted the console will restart and elevation accuracy will be unlocked

## Glossary

Base	Source of the correction signals for the RTK solution. Also referred to as: Base station, reference station, network reference station
Console	The mobile GNSS receiver, in Leica Agriculture sense this is a mojoRTK
NMEA	National Marine Electronics Association