

MicroStrain Sensing Technical Note

3DMCV7

Current Firmware Upgrade

Date

July 29, 2022

Summary

This technical note details the most current firmware available for the MicroStrain Sensing model 6286-9960 **3DMCV7-AHRS** and model 6287-9960 **3DMCV7-AR** inertial sensors. The technical note additionally describes firmware changes since the initial product release and the use of SensorConnect software to perform the firmware upgrade.

Detail

As we see in the table below, the current firmware for both models is version **1.0.07**. This firmware is contained in the file object entitled **cv7_fw1007_r52761!_b7.zhex**.

3DMCV7 Firmware

Firmware Version	ChangeLog
1.0.06	Initial Firmware Release
1.0.07	Fixes a bug with the magnetometer's temperature bias correction. Important: Please read Footnote 1.

Footnotes

1. As a result of this firmware change, factory calibration of the model 6286-9960 **3DMCV7-AHRS** magnetometer is invalidated. After completion of the firmware upgrade, the user must perform Magnetometer Calibration as described in the 3DMCV7 User Manual: [Magnetometer Calibration](#). This calibration restores full magnetometer operation after the firmware upgrade. The calibration is not required for the model 6287-9960 **3DMCV7-AR**; it has no magnetometer.

Upgrading Firmware With SensorConnect

The firmware on the **3DMCV7** inertial sensor may be upgraded with MicroStrain Sensing's SensorConnect software. This Windows software is available for download and installation on the MicroStrain website at: <https://www.microstrain.com/software/sensorconnect>. The user is required to download the ZHEX file from the **3DMCV7** web pages. SensorConnect performs the upgrade under user control.

Support

MicroStrain Sensing support engineers are always available by phone, email, chat, and Teams to support you in any way we can.



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