

Inertial Measurement Units Overview (Under Construction)

Inertial Measurement Units

Inertial measurement units are strapped to participants or otherwise worn and combine accelerometers, gyroscopes, and magnetometers.

Accelerometers measure linear acceleration in three axes (X, Y, Z), while gyroscopes are sensors that measure angular velocity around three axes (X, Y, Z). Magnetometers measure the strength of a magnetic field in three axes (X, Y, Z). Combined, you get position, translational and rotational information about a segment. These signals are fused to estimate the pose of the associated segment.

Visual3D extracts the pose information from IMU systems that write out an MVNX file. It does not read in the raw IMU data.

[Bring IMU Data into Motion Capture File](#)

From:
<https://has-motion.com/wiki/> - Wiki Documentation Site

Permanent link:
https://has-motion.com/wiki/doku.php?id=visual3d:documentation:inertial_measurement_units_overview&rev=1780412804

Last update: **2026/06/02 15:06**

