



AHRS

Attitude and Heading Reference System.

The block outputs orientation and bias-corrected angular velocity from IMU measurements. Tune the measurement noises to match a specific sensor. Tune the environmental noises to match the motion characteristics.

| Main | Measurement Noise | Environmental Noise |
|--|---|---------------------|
| Linear acceleration noise ((m/s ²) ²): | <input type="text" value="0.00962361000000000012"/> | |
| Magnetic disturbance noise ((μT) ²): | <input type="text" value="0.5"/> | |
| Linear acceleration decay factor: | <input type="text" value="0.5"/> | |
| Magnetic disturbance decay factor: | <input type="text" value="0.5"/> | |
| Magnetic field strength (μT): | <input type="text" value="50"/> | |