Internal Sensors on Your Moto360

Inas B. - 2025-10-13 - Product Features

The Moto360, running Wear OS, is equipped with a variety of internal sensors, making it a versatile tool for tracking movement, health, and environmental data.

Key Sensors

1. **6-axis Accelerometer**
   Measures acceleration and movement in multiple directions, perfect for activity tracking.

2. **Gyroscope**
   Detects orientation and rotation, providing insights into motion and positioning.

3. **Electronic Compass**
   Offers accurate directional data for navigation and orientation studies.

4. **PPG Sensor**
   Monitors heart rate and pulse, useful for fitness tracking and health research.

5. **Ambient Light Sensor**
   Adjusts display brightness automatically and can support light exposure studies.

6. **Barometric Altimeter**
   Measures atmospheric pressure for altitude tracking and environmental research.

Wear OS as a Research Platform

Wear OS allows custom app development and data extraction for experiments, giving researchers flexibility to gather insights for their studies.

Important Considerations

- Sensors have been tested for accuracy but **the device is not validated for medical or academic use**.

- Researchers should perform their own validation in the intended environment.

Explore the potential of Moto360’s sensors to develop innovative applications and gather meaningful data. For development details, refer to Wear OS documentation and resources.