

Medail HC2 Millimeter Wave Radar Fall Detection: All-round monitoring, easily integrated.

"All in one device – safety, health and comfort combined!"

With the **Medail HC2**, Medail GmbH offers an innovative safety and health monitoring device for seniors living alone. It uses **millimeter-wave radar technology** and AI algorithms to precisely monitor vital signs and activities without violating privacy.

The integration of functions such as presence and motion detectors, fall detection sensors, bed/room monitoring (quick notification when leaving the bed or room), Vital signs monitoring (breathing and heart rate), as well as sleep analysis and two-way voice communication, ensures that seniors are monitored in real-time to improve their safety and quality of life. . This advanced technology provides all-round protection that makes it possible to respond quickly to emergencies and provide seniors with the highest level of safety and comfort.

Technical parameters: Product specifications (HC2)

Parameter	Value
Dimensions	Length x width x height: 70 x 70 x 27 mm (without bracket)
Weight	83.1 g (without AC adapter)
Operating temperature	-10°C to 45°C
Storage	-20°C to 85°C
Operating humidity	5% to 95%
Storage Humidity	5% to 95%
Installation	Ceiling mounting or wall mounting
Protection	IP65
Power supply	5V USB DC power supply, external 220V power adapter
Electricity consumption	Average consumption < 4.3 W; Peak consumption < 9 W
Communication	2.4GHz Wi-Fi

Radar parameters

Parameter	Value
Working frequency band	60 GHz – 64 GHz
Bandwidth	4 GHz
Modulation type	Frequency Modulated Continuous Wave (FMCW)
Power	11 dBm
Number of transmitting/receiving antennas	4T4R (4 transmitting and 4 receiving antennas)