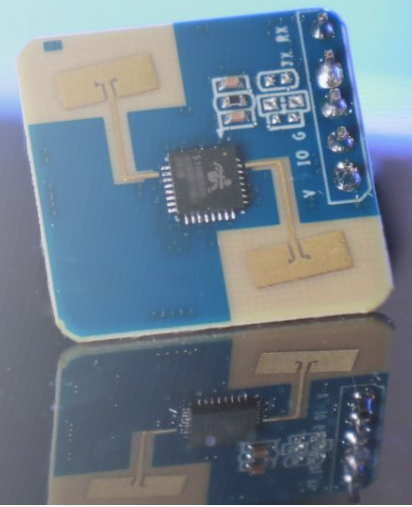


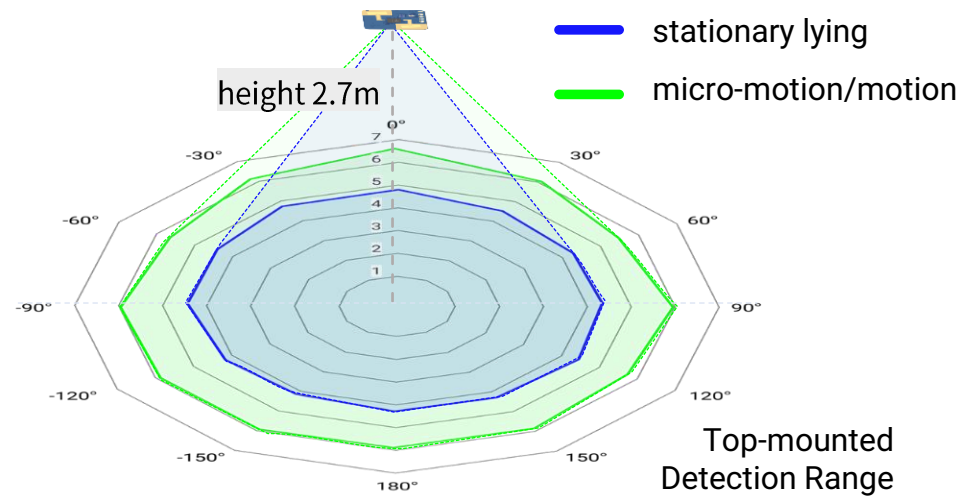
XenD101H Human Presence Detection

Stationary Human Presence mmWave Sensor

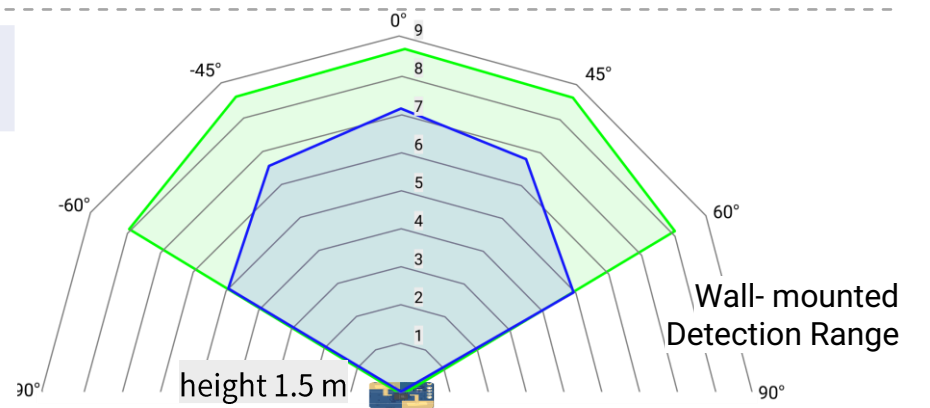


Using FMCW technology, it detects stationary, micro-moving, and moving human targets within the scene. Through precise human presence sensing and ranging algorithms, it allows for independent configuration of detection sensitivity and can automatically generate sensor configuration parameters, enhancing anti-interference performance. The projection radius of top-mounted detection reaches 5 m. It can detect stationary human and has the capability to detect stationary lying and sleeping human. It is a true stationary human presence sensing sensor.

Installation Method	Human Body State	Max. Coverage Area
Top-mounted	Stationary Lying	4.8 m
	Micro-motion/Motion	6.5 m



Installation Method	Human Body State	Detection Range @ height 1.5 m
Wall-mounted	Stationary Lying	7 m
	Micro-motion/Motion	8.5 m



Specifications	
Operating Frequency	24 ~ 24.25 GHz FCC/CE compliant
Operating Voltage	3.3 V, 5 V
Operating Current	50 mA
Sensor SoC	S1 series (1T1R)
Hardware Size	20 mm x 20 mm
Interface	UART, GPIO

Features	
Wider Coverage:	Compatible with both top-mounted and wall-mounted detection methods
Accurate Detection:	Human presence detection in both lying and sleeping states
Easy Deployment:	Automatically generate parameters, adapted to various scenarios quickly
Worry-free Manufacturing:	Easy-to-use supporting resources for quick mass production
Scenario Optimization:	Integrated commonly used application scenarios
Minimalist Cost:	Well-adapted new algorithms improve performance and lower costs

IAP Upgradable



Human presence detection demonstration tool



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