

XenG102ST

Smart Toilet mmWave Sensor with Gesture Control

- Gesture Recognition: Non-contact control, intelligently recognize hand gestures
- Range Measurement: Support accurate detection range configuration, range accuracy ± 10 cm
- Interference Avoidance: Support sensibility configuration, prevent interference from the outside
- Convenient Configuration: Support configuring the response time for variable requirements

Specification	
Detection Range (Gesture Recognition)	0.5 ~ 1 m 80° x 60°
Detection Range (Human Detection)	0 ~ 2 m 80° x 40°
Operating Frequency	24 ~ 24.25 GHz, in accordance with FCC/CE
Operating Voltage	5 V
Average Current	50 mA
Sensor SoC	S3 series (1T1R)
Hardware Size	28 mm x 24 mm
Interface	UART, GPIO

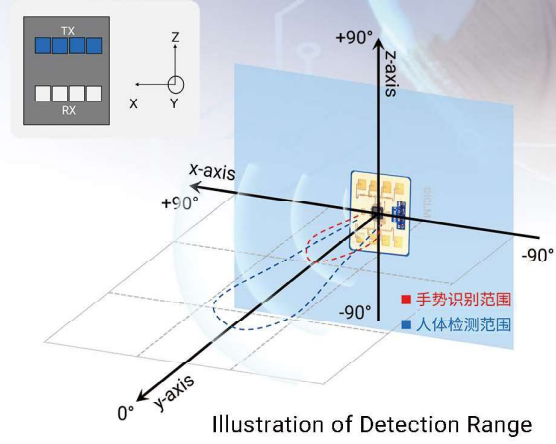


Illustration of Detection Range

Smart toilet application



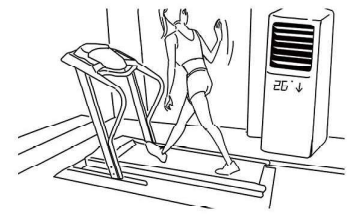
Open lid when approaching Open seat by gesture recognition Close lid and seat when leaving

Support further development

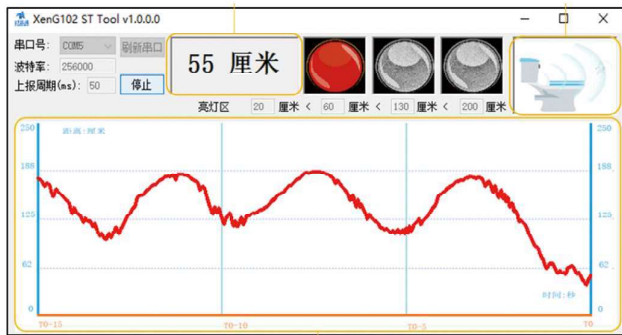
When incorporated with different firmware and algorithm, it is applicable to various scenarios, such as Smart Switch Panel, Security Surveillance, Smart Lighting, and Public Devices.



Smart Toilet



Smart Appliance



Ranging and gesture recognition GUI tool



Public Devices



Smart Lighting

