



Respory Node Mesh V1 – Whitepaper

Respory's Node Mesh V1 was conceptualised and designed for 24/7 people mapping all over the installed area. Due to its underlying technology, the Respory Node Mesh V1 is GDPR compliant by design, provides state-of-the-art accuracy for tracking customers throughout a zone and monitoring their taken pathways and stops. Thus, the nodes enable fast and reliable management decisions based on quantitative data which in turn boost the total amount of customers, their return rate, and the conversion rate per client.

Key Features

- GDPR conformity by design
- Indefinite number of nodes in a mesh network to cover any store size
- People mapping throughout the store before checkout
- Computer-based objective retail analytics for performance and efficiency
- Plug and play solution to install the technology cheaply, easily, and unobtrusively
- Configuration and maintenance via remote access
- Constant updates and improvements done over-the-air
- Unmatched power-efficiency and accuracy

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Technical Specifications

Performance	
Technology	FMCW Radar
Coverage area dimensions	8m x 8m at 3.5m height (max. 100 m ²)
Multi-Devices	Indefinite
Installation height range	3m to 10m
Use environment	Indoors and weather-protected outdoors
Counting accuracy	>99% ¹
Electronics	
Power Source	Power rail (plug in suspended ceiling)
Power Consumption	1 to 3 watts
Mechanics	
Dimensions	144mm x 98mm x 37mm
Weight	500g
Housing Material	Recycled polymers
Colour	Grey, black, white (others individually)
Operating temperature	-40°C to +105°C (subject to housing)
Installation	Power rail or bracket for suspended ceiling
Networking	
Connectivity	WiFi 802.11 b/g/n, 2.4GHz
Data hosting	Cloud-Hosting under DSGVO-conformity in Germany
Software setup	Remote configuration by after-sales department
Access	Web-based dashboard
Conformity	
Reference standard	RoHS, CE

¹ The counting error depends on the people walking in the field of interest and the mounting height. Mounted at 3m ceiling height, a maximum of 10 People can be detected with >99% accuracy. Mounted at >5m, a maximum of 15 people can be detected with >99% accuracy.

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