High-Resolution Millimetre Wave Radar People Counter

3D ProWave™

Product Code: FC-F3DP07

HIGH-RESOLUTION mmWAVE RADAR SENSING TECHNOLOGY

- Unparalleled Accuracy of Up to 99.5%
- Excellent Lifespan MBTF 25 years
- Widest Coverage Area
- Anonymous Counting at Source, Privacy Protected
- Superior Processing Power-Improved 3D Counting Accuracy

OCCUPANCY COUNTING

- Count the number of people inside the coverage zone (measure space utilisation, data collection for analysis of occupancy time of each zone, measure marketing response).

HEATMAP ANALYSIS

- Gain valuable insights from space occupancy data to boost utilisation rate, discover hotspots/congested areas, and optimise the frequency of cleaning services in your facilities.

OPTIMISED FOR ALL ENVIRONMENTS

- Anonymous Data. Full privacy protection is provided using anonymous mmWave technology.
- Widest Coverage. Equipped with a 120-degree millimetre wave (mmWave), reduce the total number of devices required.
- Superior Heat Dissipation. Enclosed in an aluminium unibody casing, it prolongs the lifespan of electronic components.
- Low-light. The built-in sensor (mmWave) further improves accuracy in low light, even in complete darkness.

EASY TO INSTALL AND SET UP

- Daisy chain with RS485 Connectivity and DC power (5 cores)
- More Compact Form Factor
- 1-year Manufacturer Warranty

TECHNICAL DATA

Device Dimension (mm)	97 (W) x 68.3 (D) x 20.78 (H)
Packing Dimension (mm)	200 (W) x 170 (D) x 50(H)
Weight	Device: 0.92 kg Packing: 1.75 kg
Indicator	LED status indicator
Casing	Made of ABS plastic cover with CNC Aluminium alloy in heat dissipation design
Storage	Built-in, 16 MB Storage
Ideal Mounting Height	2.5 metres – 4.0 metres
Operating Environment	Temperature 10°C to 45°C, Humidity 10% to 90%
Storage Environment	Temperature -40°C to 70°C, Humidity 10% to 95%
Tracking Technology	High Resolution mmWave Radar Sensing Technology with Extended Kalman Filter Tracking
Wireless Connectivity	Bluetooth 5.3 with Mesh Topology; AES-128 Encryption; +4 dBm TX Power
Wire connectivities	RS485 (Half Duplex)
DC Power	12 VDC
Cabling	16-28 AWG
Origin	Made in the UK

FIRMWARE SPECIFICATION FOR DEVICE LEVEL
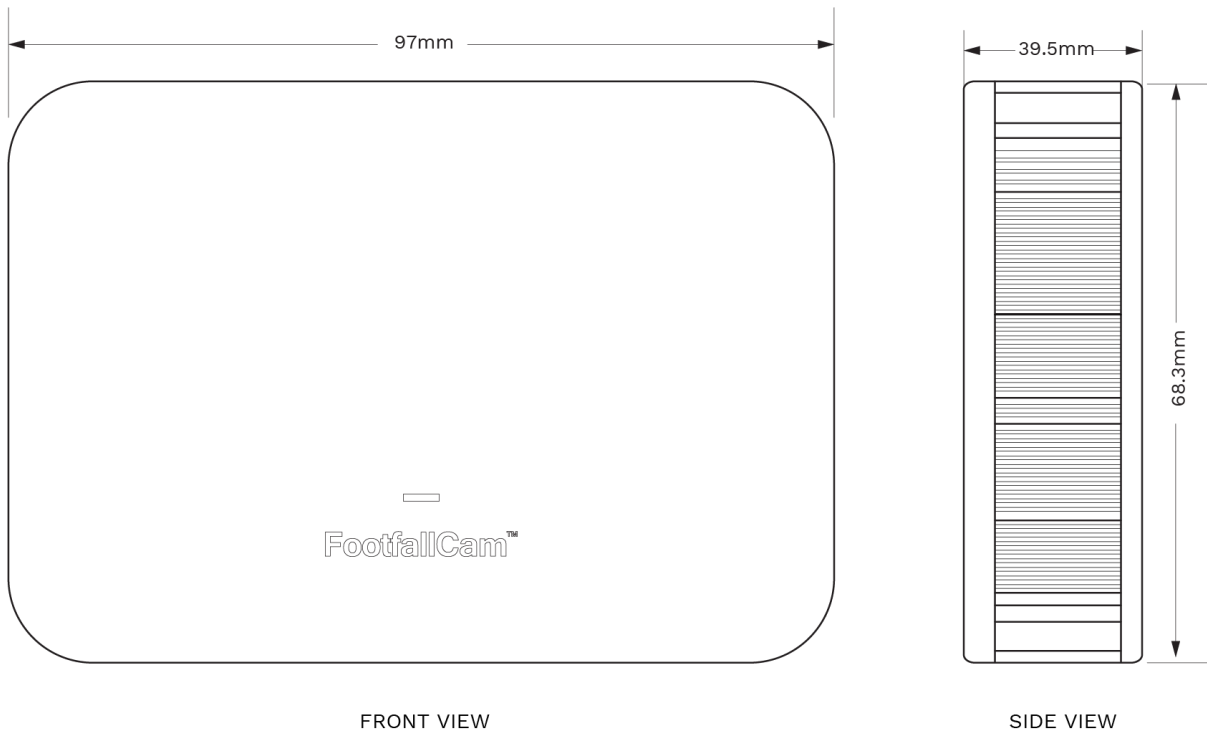
Interface	Http; Https
User Levels	2 levels: Administrator, Standard User
Operating System	Footfall Counter OS
Ethernet	10/100 Mb Ethernet
Data Delivery	TCP/IP
Database Type	SQLite
Report Format	csv, .xml, .txt
Data Storage on counter level	Hourly Data: 300 days; Raw Data: 7 days; 3 days *Data which has sent to server will keep permanently in server level
Data Backup	Yes
Firmware Feature	Secure Operating System with Multicore Processor, Adaptive IR based on Lighting Conditions, Device Health Check, Built-in External Watchdog
Data Upload to Server	Every Hour
Average Data Transfer Rate*	10.0 kilobytes/hour

Average Data Transfer Rate is measured with a predefined sample size of 20 requests per hour

PRODUCT DIMENSION

FRONT VIEW

SIDE VIEW

COVERAGE TABLE

Ceiling Height (m)	Coverage Area (m) (Horizontal FOV x Vertical FOV)
2.5	5.4 x 5.4 m
3.0	6.4 x 6.4 m
3.5	7.5 x 7.5 m
4.0	8.6 x 8.6 m