3D People Counter for High Ceiling

Extend (2025)™

Product Code: FC-F3D03

AI POWERED 3D STEREO VISION PEOPLE COUNTING

- Unparalleled Accuracy of Up to 99.5%
- Real-time Occupancy Counting
- Excellent Lifespan MBTF 25 years
- Bi-directional Counting
- Accurate Counting with Video Proof
- Superior Processing Power-Improved 3D + AI Counting Accuracy

VIDEO COUNTING

- Counting ins and outs (measure store performance, data collection for analysis of store performance, measure marketing response).

DYNAMIC QUEUE COUNTING

- Track the queue line and determine the average wait time of passengers and send an alert to management when the number of people waiting exceeds the threshold.
- Full path tracking across multiple devices over a large span of area by using appearance and mobility Re-Identification.

PASSENGER QUEUE PLAYBACK

- Tracked data are stored in the database, and the queue counting view can be replayed later for in-depth analysis of critical passenger flow situations.

AREA PROFILING

- Handle different types of zones including staff-only zone, queueing zone, divest zone, processing zone and priority zone.
- Metrics are stored at finest granularity for full picture analysis.

TECHNICAL DATA

Device Dimension (mm)	550 (W) x 49 (D) x 33 (H)
Packing Dimension (mm)	580 (W) x 125 (D) x 60 (H)
Weight	**Device:** 0.8 kg **Packing:** 1.41 kg
Camera	2x 5MP, 160°, 120° and 65°, 5MP omni-vision 5647 camera modules
Illumination	Minimum 1 lux (with external Infrared light source)
Frame Rate	15 fps (Live Stream of counting will only display 320x240 resolution to reduce bandwidth sent to the database for verification purpose)
LEDS	LEDs troubleshooting for device status
Casing	Made by Aluminium oxide alloy
Storage	Built-in, 8 GB memory External Micro SD slot (supports up to 128 GB)
IP Rating	IP31
Storage	Built-in, 32 GB eMMC Storage
Memory	4 GB
Ideal Mounting Height	4.5 metres - 20 metres (Based on product variations)
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	3D-Spacing Mapping Video Tracking Technology and background removal on a static object.
CPU	ARM Cortex Octa-core Processor
GPU	ARM Mali
NPU	8 TOPS
Field Upgradable	Manual / Auto Software upgrade
Power Over Ethernet	Yes (IEEE802.3at)
PoE Mode	Mode A/B
Voltage	48~56 VDC
Power Consumption	15W
Cabling	Cat5e/Cat6, 100Mbps
Origin	Made in the UK

FIRMWARE SPECIFICATION FOR DEVICE LEVEL
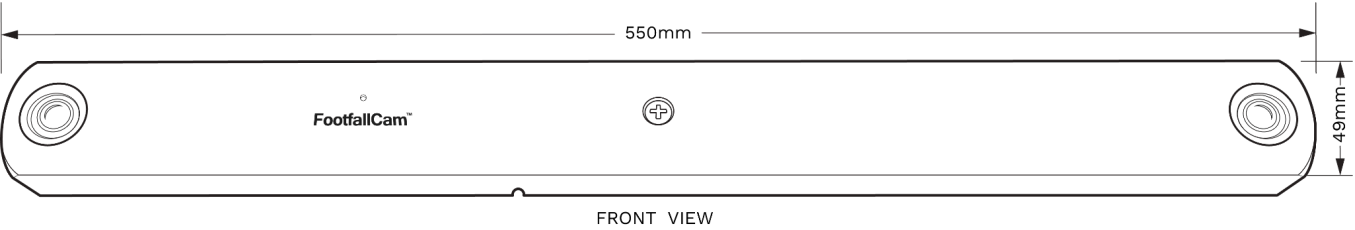
Interface	Http; Https
User Levels	2 levels: Administrator, Standard Usery
Operating System	Footfall Counter OS
Ethernet	10/100 Mb Ethernet
Database Type	SQLite
Report Format	csv, .xml, .txt
Data Storage on counter level	Hourly Data: 300 days; Raw Data: 7 days; 3 days *Data which has sent to server will 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

550mm

49mm

FootfallCam™

FRONT VIEW

COVERAGE TABLE

Footfallcam Extend™									
Lens	Angled 160°			Angled 120°			Angled 65°		
Ideal Mounting Height	4.50 m – 6.00 m			5.50 m – 14.00 m			14.00 m – 20.00 m		
	Entrance Width [1] (m)	Coverage Width [2] (m)	Coverage Area [3] (m²)	Entrance Width [1] (m)	Coverage Width [2] (m)	Coverage Area [3] (m²)	Entrance Width [1] (m)	Coverage Width [2] (m)	Coverage Area[3] (m²)
4.5	9.35m	10.39m	84.79m²						
5.0	10.39m	11.54m	104.68m²						
5.5	11.43m	12.70m	126.66m²	8.64m	9.59m	72.30m²			
6.0	12.47m	13.85m	150.74m²	9.42m	10.47m	86.05m²			
6.5				10.21m	11.34m	100.98m²			
7.0				10.99m	12.21m	117.12m²			
7.5				13.09m	14.54m	166.12m²			
8.0				13.63m	15.14m	180.10m²			
8.5				14.17m	15.74m	194.64m²			
9.0				14.71m	16.34m	209.74m²			
9.5				15.25m	16.94m	225.41m²			
10.0				15.79m	17.54m	241.65m²			
11.0				16.61m	18.46m	267.56m²			
12.0				17.18m	19.09m	286.26m²			
13.0				17.75m	19.73m	305.60m²			
14.0				18.32m	20.36m	325.57m²	18.27m	20.30m	323.65m²
15.0							18.93m	21.04m	347.53m²
16.0							19.59m	21.77m	372.25m²
17.0							20.26m	22.51m	397.82m²
18.0							20.26m	22.51m	397.82m²
19.0							20.26m	22.51m	397.82m²
20.0							20.26m	22.51m	397.82m²

Notes:
[1] **Entrance width (m)** - Used to estimate the device coverage for **Entrance Counting**
[2] **Coverage width (m)** - The maximum width of device coverage for **In-Store Analytics**
[3] **Coverage area (m²)** - Used to estimate the device coverage for **In-Store Analytics**