3D Stereoscopic Vision People Counter

PRO3 ™

Product Code: FC-F3DP16

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

WIFI/BLUETOOTH COUNTING

- Available metrics are outside traffic, visit duration, returning rate and traffic flow profiling.

STAFF EXCLUSION

- Automated staff counting using the AI-powered re-identification function requires no pre-registration, accessories, or unique uniforms.

OPTIMISED FOR ALL ENVIRONMENTS

- One lens fits all heights, caters for different types of stores with varying ceiling heights, as low as 2.1m to 6.0m.
- Widest Coverage. Equipped with 160 degree dual fisheye lens, reduce the total number of counters required.
- Superior Heat Dissipation. Enclosed in an aluminium unibody casing, prolong the lifespan of electronic components.
- Low-light/ Night Mode Counting with External Infrared Light

EASY TO INSTALL AND SET UP

- More Compact Form Factor
- 1-year Manufacturer Warranty

TECHNICAL DATA

Device Dimension (mm)	148 (W) x 118 (D) x 28 (H)
Packing Dimension (mm)	346 (W) x 177 (D) x 50 (H)
Weight	Device: 0.55 kg Packing: 1.24 kg
Camera	2x 5MP, 160°, 5MP omni-vision 5647 camera modules
Illumination	Minimum 1 lux (with external Infrared light source)
Frame Rate	25 fps (Live Stream of counting will only display 1024x780 resolution to reduce bandwidth sent to database for verification purpose)
Indicator	RGB LED status indicator
Casing	Made by Aluminium body together with ABS front cover
Storage	Built-in, 32 GB eMMC Storage
Memory	4 GB
Ideal Mounting Height	2.1 metres – 6.0 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	3D-Spacing Mapping Video Tracking Technology and background removal on static objects.
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
Maximum Allowable Tilt	16°

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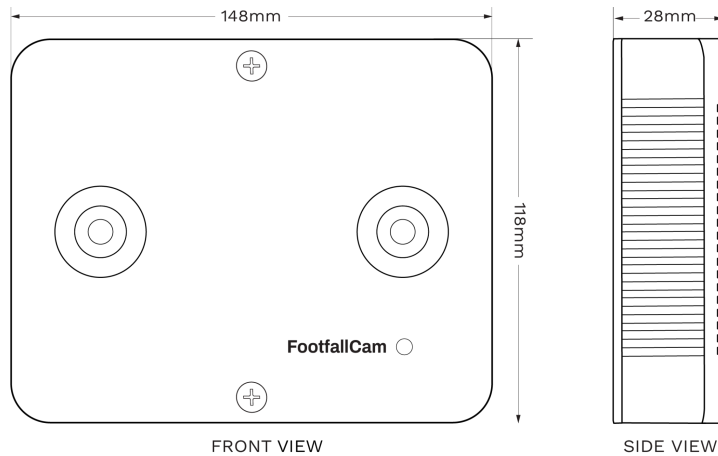
Interface	Http; Https
User Levels	2 levels: Administrator, Standard Usery
Operating System	Footfall Counter OS
Ethernet	10/100 Mb Ethernet
Data Delivery	TCP/IP
Database Type	SQLite
Report Format	csv, .xml, .txt
Data Storage on counter level	Hourly Data: 300 days; Raw Data: 7 days; 3 days *Data which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

148mm
28mm
118mm

FootfallCam

FRONT VIEW

SIDE VIEW

Wide Field of View (FOV) - 160°

Wide FOV
160°

9.24 meters
@4m mounting heights

COVERAGE TABLE

Ceiling Height (m)	Lens Degree	Entrance Width (m) [1]	Coverage Width (m) [2]	Coverage Area (m^2) [3]
2.1	160	3.14m	6.92m	18.47m^2
2.2	160	3.26m	7.16m	40.26m^2
2.3	160	3.55m	7.38m	42.74m^2
2.4	160	3.84m	7.59m	45.29m^2
2.5	160	4.13m	7.81m	47.91m^2
3.0	160	5.21m	8.50m	56.80m^2
3.5	160	5.74m	8.61m	58.28m^2
4.0	160	6.61m	9.15m	65.80m^2
4.5	160	7.98m	10.34m	83.89m^2
5.0	160	9.35m	11.52m	104.19m^2
5.5	160	10.72m	12.70m	126.68m^2
6.0	160	12.12m	14.43m	163.58m^2

Notes:
[1] **Entrance width** (m) - Used to estimate the device coverage for **Entrance Counting**
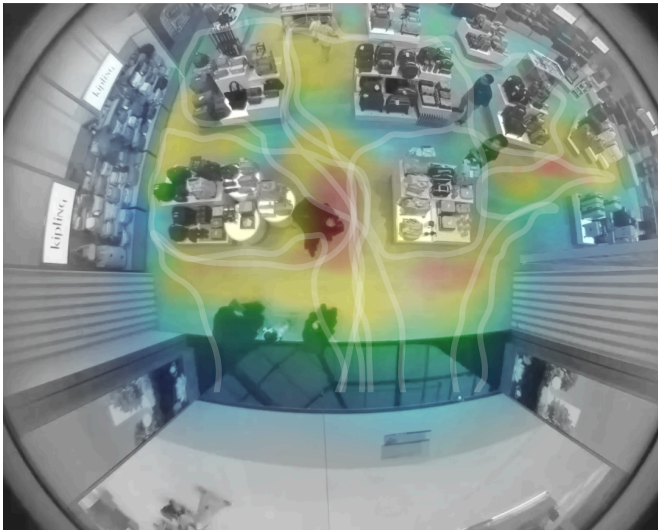[2] **Coverage width** (m) - The maximum width of device coverage for **In-Store Analytics**
[3] **Coverage area** (m^2) - Used to estimate the device coverage for **In-Store Analytics**
For mounting height >6.00m, recommend to use drop pole when installing the counter to the acceptable range

Do you need further information or have a question? Please visit www.footfallcam.com

AI-Powered Re-Identification

Footfall Profiling
- Demographic Analysis
- Unique Visitors: Discount visitors who have re-entered the store within the last 15 minutes.

In-Store Analytics
- Heatmap
- Store-wide Path Tracking
- Customer Engagement: Measure the passer-by, engaged visitors and engaged duration for each area.
- Shopper Type Categorisation: Based on the shopping journey and shoppers' behaviour

Automatic Staff Exclusion
❌ No Tags
❌ No Staff Pre-Registration
❌ No Designated Walk Paths for Staffs
❌ No Unique Uniform