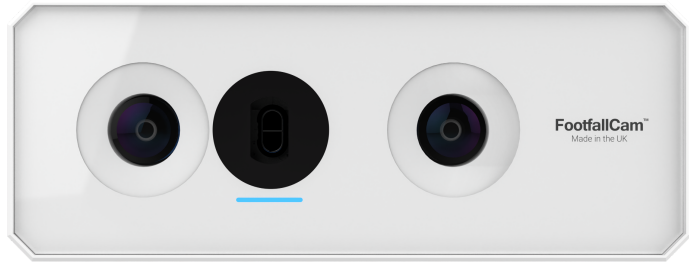# FootfallCam
3D PRO2™

Product Code: FC-F3DP02

FootfallCam Product **People Counter**

Key Features

➤ Stereo Vision Technology

➤ Real-time Occupancy Counting

➤ Excellent Lifespan MBTF 25 years

➤ Bi-directional Counting

➤ Accurate Counting with Video Proof

➤ Superior Processing Power- Improved 3D Counting Accuracy

➤ Low-light / Night Mode Counting with External Infrared Light

➤ Low Ceiling Counting

➤ Improved Gateway Processor for FootfallCam™ IoT Device

➤ More Compact Form Factor

➤ Easy to Install and Set-Up

➤ 1-year Manufacturer Warranty

FootfallCam 3D Pro2™ is specially designed to support low ceiling height (as low as 2.1m) counting. Embedded with a powerful 1.2GHz Quadcore processor, it is packed with feature upgrades while maintaining performances of its predecessors. Specifically designed to run complex video processing algorithms, the GPU runs our AI-based algorithms which utilises depth, colour and texture pattern to identify a person, producing superior accuracy compared to using colour pattern alone. The built-in sensor further improves accuracy in low-light, indoors and high noise environments. Delivered in aluminium casing for heat dissipation, the overall form factor is more compact and inconspicuous than ever.

Basic Functions

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

2. **Wi-Fi Counting.** Basic Wi-Fi counting metrics are available e.g. outside traffic, visit duration, returning rate and traffic flow profiling.

3. **Staff Exclusion.** Staff are excluded from counting just by clipping the Staff Exclusion Tag on the shirt with no infrared or any emission involved.

Advanced Functions

1. **Real-time Occupancy Tracking.** Track the number of visitors in a building at any given time along with a smart display with a live occupancy update. Alert staff when the occupancy limit is breached.

2. **GPIO Functionality.** Integrate occupancy counting with all entrances and exits. If the occupancy level is reached, it will automatically close the door to prevent more customers from coming in.

FootfallCam 3D Pro2™

DIMENSION

Device	153.7mm (W) x 58.2mm (D) x 39.5mm (H)
Packing	200mm (W) x 170mm (D) x 50mm (H)

WEIGHT

Device	0.4kg
Packing	0.85kg

CAMERA

Resolution	2x5 MP
Illumination	Minimum 1 lux (with external Infrared light source)
Lens Degree	160°
RAM	1 GB
Antenna Coverage	100 ft radius
Output	5MP omni-vision 5647 camera modules
Frame Rate	25 fps (Live Stream of counting will only display 320x420 resolution to reduce bandwidth sent to database for verification purpose, CCTV function displays 1080p resolution)

INDICATOR

RGB LED status indicator

CASING

Made by Aluminium oxide alloy for water and dust resistant with 1mm tempered glass lens-covering.

STORAGE

Built-in, 8 GB Storage

IDEAL MOUNTING HEIGHT

2.1 metres – 4.5 metres

IDEA ENVIRONMENTAL

Operating environment	Temperature 10°C to 45°C, Humidity 10% - 90%
Storage environment	Temperature -40°C to 80°C, Humidity 10% - 95%

TRACKING TECHNOLOGY

3D-Spacing Mapping Video Tracking Technology and background removal on static objects.

CONNECTIVITY

Ethernet	100Mbps
Wi-Fi	Wi-Fi-IEEE 802.11 (b/g/n), 2.4Ghz, AP mode

FIELD UPGRADABLE

Manual / Auto Software upgrade

ORIGIN

Made in the UK

For more information about FootfallCam Software, kindly refer to FootfallCam Analytic Manager V8 datasheet

INPUT POWER SPECIFICATIONS

Power Over Ethernet	Yes (IEEE802.3af)
PoE Mode	Mode A/B
Voltage	48~56 VDC
Power Consumption	6W
Cabling	Cat5e, Cat6

FIRMWARE SPECIFICATIONS ON COUNTER LEVEL

|	
Interface	Http; Https
User Level	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; Wi-Fi Data: 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
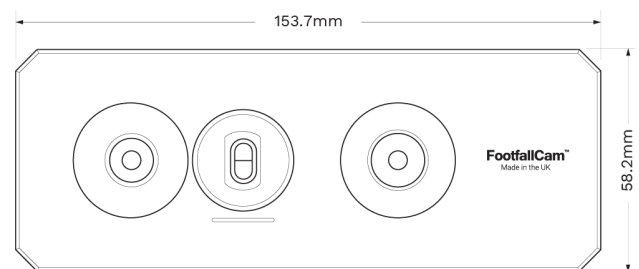
FRONT VIEW
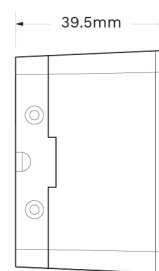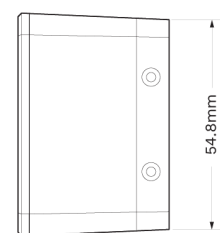
LEFT VIEW   RIGHT VIEW

Coverage Table

Ceiling Height(m)	Coverage Area(m) (Horizontal FOV x Vertical FOV)	Lens Degree
2.1	1.57 x 1.17 m	160
2.5	2.62 x 1.96 m	160
3.0	3.94 x 2.93 m	160
3.5	5.25 x 3.91 m	160
4.0	6.56 x 4.89 m	160
4.5	7.87 x 5.87 m	160

FootfallCam™