FootfallCam
Centroid™

Product Code: FC-FCT01

`Third Party Product`   `Accessories`

Key Features

▶ Easy to install, integrate and maintain.

▶ Real time processing data.

▶ Process up to eight HD full-motion video streams

▶ Low-power edge intelligent video analytics

▶ FootfallCam Centroid works in conjunction with FootfallCam people counter and/or any CCTV cameras

▶ Data Metrics involved in the FootfallCam people counter can be computed by FootfallCam Centroid

CCTV Requirement

▶ Installed between 2-6m ceiling height (ideal height is between 3-4m)

▶ Real time Streaming Protocol (RTSP) Compatible

▶ No distortion / fisheye lens

▶ Minimum resolution of 720p

▶ Minimum Frame rate of 10fps

▶ Adjustable view angle

FootfallCam Centroid™ processes up to eight HD full-motion video streams in real-time and can be deployed as a low-power edge intelligent video analytics platform for Network Video Recorders (NVR), smart cameras, and IoT gateways. Applications include human detection, pose estimation and car detection.

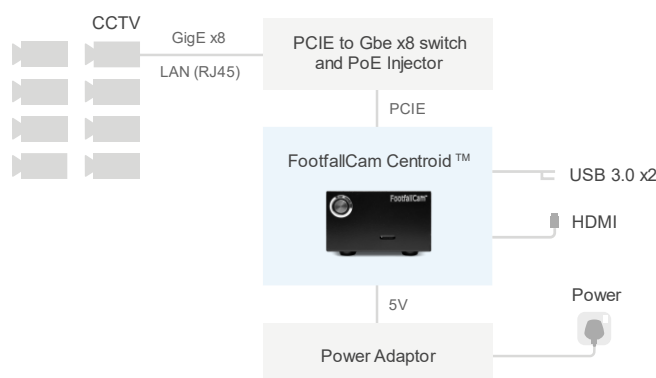## How it works?

1. Multi Stream Video Analytics

Figure 1: An example NVR architecture using Centroid for ingesting and processing up to 8 digital streams over Gigabit Ethernet with deep learning analytics

2. Object Detection (Localization)

Figure 2: Screenshots from video of Centroid performing object detection on eight 1080p30 streams running at a throughput of 500 megapixels per second (MP/s).

FootfallCam Centroid™

GENERAL SPECIFICATION

Model	Centroid
Weight	270gm
Casing Colour	Black
Casing Material	Metal
Total Dimensions (mm)	104 (W) x 81(D) x 60(H)
Warranty	1 year from first allocation date*

* Warranty extension available upon request

PROCESSOR SPECIFICATION

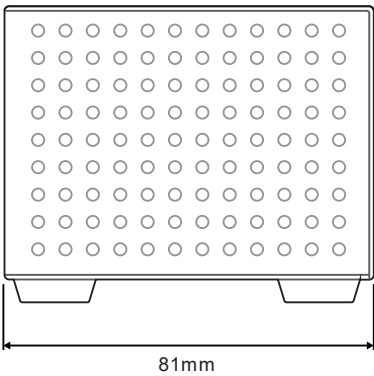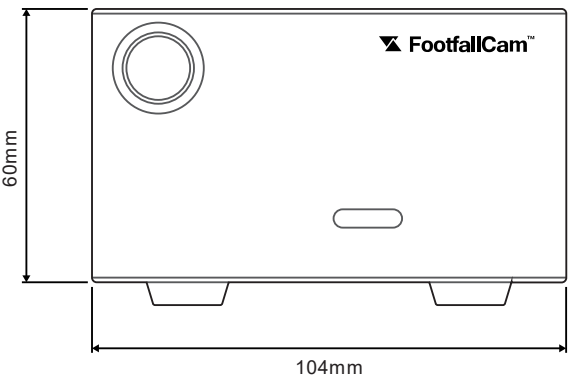|	
CPU	64-bit Quad-core @ 1.43GHz
GPU	128-core @ 921MHz
Memory	4GB 64-bit LPDDR4 @ 1600MHz | 25.6 GB/s
Video Encoder	4Kp30 | (4x) 1080p30 | (2x) 1080p60
Video Decoder	4Kp60 | (2x) 4Kp30 | (8x) 1080p30 | (4x) 1080p60
Power	10W

INTERFACES SPECIFICATION

USB	4x USB 3.0 A (Host) | USB 2.0 Micro B (Device)
Display	HDMI | DisplayPort
vNetworking	Gigabit Ethernet (RJ45)
Wireless	M.2 Key-E with PCIe x1
Storage	MicroSD card (16GB UHS-1 recommended minimum)
SIM Card	4G/LTE/3G
Other I/O	(3x) I2C | (2x) SPI | UART | I2S | GPIOs
Power Supply	5V4A DC Power Adapter

OPERATIONAL

Average Data Transfer Rate*	5.0 kilobytes/hour

* Average Data Transfer Rate is measured with a pre-defined sample size of 20 requests per hour.

60mm

104mm

81mm