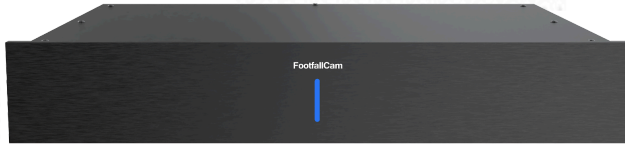


AI NVR

CENTROID



Product Code: FC-FCDVR01

KEY FEATURES

- Real time data processing
- Designed for human and vehicle detection
- Process up to 64x HD full-motion video streams
- Low-power edge intelligent video analytics
- FootfallCam Centroid works in conjunction with any CCTV cameras
- Data Metrics involved in the FootfallCam people counter can be computed by FootfallCam Centroid™

MULTI STREAM VIDEO ANALYSIS

- Can be connected to up to 32x CCTV cameras (for security and surveillance) and up to 64x CCTV cameras (for AI-video analytics) for maximum coverage and cost-effectiveness. The videos are processed in real time to generate in-depth data analytics. The aggregated data from each raw video stream are available to be accessed through FootfallCam V9™ with ready-made modules and reports.

OPTIMISED FOR ALL BUSINESS NEEDS

- FootfallCam Centroid™ carries out object detection and classification for any industry. Supported models include **People Counting, In-Store Analytics** (including Heatmap, Customer Engagement, Queue Counting, Occupancy Counting), **Crowd Counting** (more than 100 people per camera), **Demographics, Staff Exclusion, Person re-ID, Skeleton Tracking** (Product Engagement).

CCTV REQUIREMENTS

- Compatible processing data through Real-Time Streaming Protocol (RTSP)
- Allow direct video stream from RTSP-enabled IP Cameras or Network Video Recorders (NVR)
- Installed between 2 to 6 metres ceiling height with ideal mounting height between 3 to 4 metres.
- No distortion / fisheye lens on the analytic zone
- Minimum video resolution of 720p
- Minimum video frame rate of 10fps

GENERAL SPECIFICATION

| | |
|----------------------------|---|
| Model | Centroid |
| Weight | 5.4kg |
| Casing Colour | Black |
| Casing Material | Metal |
| Total Dimensions (mm) | 419 (W) x 320 (D) x 68 (H) |
| Warranty | 1 year from first allocation date (Warranty extension available upon request) |
| Input Power | AC 110-230V, 50~60Hz |
| Power Consumption | 100W |
| CPU | Quad Cortex®-A76 @ 2.2~2.4GHz and Quad Cortex®-A55 @ 1.8GHz |
| GPU | Arm Mali™ G610MP4 |
| NPU | Up to 48TOPs NPU |
| Memory | Up to 16GB 128-bit LPDDR4X |
| NVR Codec | H.265+, H.265, H.264 |
| Video Encode | Refer table in page 4 |
| Video Decode | Refer table in page 4 |
| Multi Mode Input | Refer table in page 4 |
| Record Mode | Manual > Alarm > Motion Detection > Timing |
| Local Playback | Up to 32CH (Analog / Network) |
| Search Mode | Search by Time, Calendar, Event, Channel |
| Video Input Port | Up to 16CH BNC / Up to 32CH RJ45 Network Port |
| Display (Centroid-8/16/32) | HDMI |
| HDD | 1x SATA port (Up to 4 TB) |
| USB | 2x USB 2.0 Ports |
| Network Port | RJ45 10M/100M |
| Origin | Designed in the UK, Assembled in Malaysia. |

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

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CENTROID SERIES

Smart AI Edge Analytics for Every Retail and Public Venue

In today's competitive retail and operations environment, real-time insights are no longer optional - they're essential. That's why FootfallCam offers three purpose-built variants of the **Centroid** - a next-generation AI edge device designed to transform your existing video infrastructure into a powerful engine of business intelligence.

Whether you operate convenience stores, department stores, shopping malls, or public venues, there's a Centroid built for your environment.

CENTROID-16

All-in-One AI Platform for Mid-Sized Stores
16 Channels | 2TB HDD | Analog or IP Input

IDEAL FOR:

- **Mid-size retail, department stores, larger format convenience chains, pharmacies**
- Businesses that want full in-store analytics while maintaining local storage for compliance

WHAT IT DELIVERS:

- Handles **16 channels** of live video for **real-time AI processing**
- Accepts either **analog or IP feeds** (ideal for hybrid stores)
- Enables **multi-zone analysis, staff/shopper interaction mapping**, and queue monitoring
- Built-in 2TB HDD for in-store data compliance and review

CENTROID-32

Balanced AI NVR for Growing Retail Chains
32 IP Channels | 4TB HDD | IP Input Only

IDEAL FOR:

- **Mid-to-large format retail stores, supermarkets, DIY chains, electronics stores**
- Retailers with **existing IP CCTV infrastructure**, scaling AI analytics across locations
- Businesses that want real-time AI without managing on-site video storage

WHAT IT DELIVERS:

- Supports up to **32 IP camera channels** for live AI processing
- Equipped with a **24 TOPS NPU** for real-time people tracking, dwell zones, and queue analytics
- IP-only input (RTSP), suitable for modern deployments without analog conversion
- Cloud-based data handling - ideal for centralised storage or analytics

CENTROID-64

Scalable AI Engine for Large-Scale Venues
64 IP Channels | No HDD | Pure Analytics Node

IDEAL FOR:

- **Large-format stores, malls, museums, airports, theme parks, smart cities**
- Environments with an existing IP CCTV network and centralised NVR system
- Customers requiring **massive-scale, real-time AI processing**

WHAT IT DELIVERS:

- Ingests up to **64 RTSP IP streams simultaneously**
- Optimised solely for **AI-based tracking, zone heatmaps, demographic analysis, staff efficiency**, and more
- Zero local storage: offloads anonymised event data to the **FootfallCam Cloud**
- Minimal footprint, scalable rollout, **built to standardise enterprise analytics**

Shared Intelligence Across the Range

All Centroid models are powered by FootfallCam's proprietary AI engine and are compatible with:

- FootfallCam Central Cloud for dashboarding and KPI insights
- Real-time staff tracking, shopper journey mapping, heatmap visualisation, and queue detection
- Monthly SaaS subscription includes AI model tuning, floorplan configuration, and remote maintenance
- Plug-and-play setup via existing video streams - no need to rip and replace your camera network

Choosing the Right Centroid

| Feature | Centroid-16 | Centroid-32 | Centroid-64 |
|-----------------|-----------------|---------------------|-------------------|
| Camera Channels | 16 | 32 | 64 |
| Input Type | Analog + IP | IP Only | IP Only |
| Local Storage | 2TB | 4TB | None |
| NVR Function | ✔ Yes | ✔ Yes | ✘ No |
| AI Analytics | ✔ Full | ✔ Full | ✔ Full |
| Ideal For | Mid-size retail | Mid to large stores | Large enterprises |

THE FINAL WORD

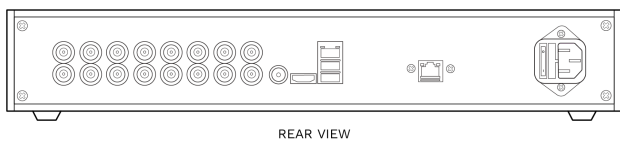
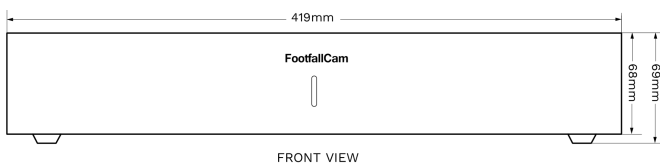
With the Centroid family, FootfallCam empowers every store, mall, or public venue - regardless of size or system age - to gain deep, retail-specific insights from their video infrastructure.

- **Centroid-16:** For retailers modernising with hybrid systems and advanced analytics
- **Centroid-32:** For retailers who want to transform their IP CCTV system to advanced video analytics
- **Centroid-64:** For large operators demanding scale, speed, and full AI observability

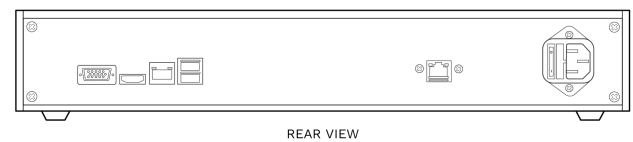
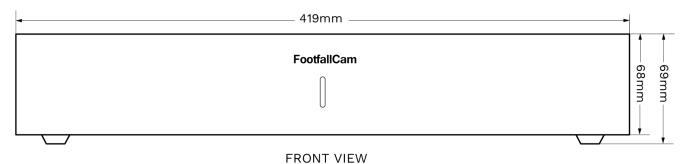
No rewiring. No guesswork. Just actionable insight at the edge

PRODUCT DIMENSION

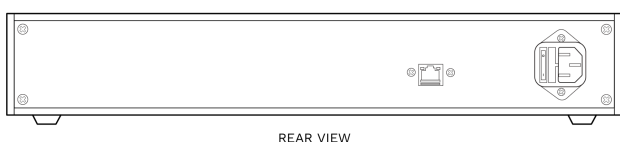
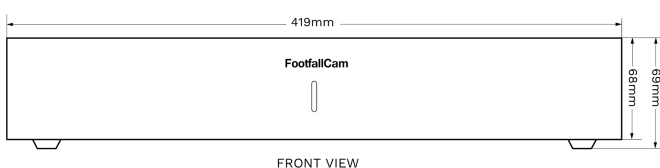
Centroid-16



Centroid-32


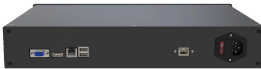



Centroid-64



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| Model | Centroid-16 | Centroid-32 | Centroid-64 |
|-------------------|---|---|---|
| |  |  |  |
| Type | Hybrid NVR + AI | NVR + AI | AI |
| Weight | 5.5 KG | 5.5 KG | 5.4 KG |
| Casing Colour | Black | Black | Black |
| Casing Material | Anodised Aluminum | Anodised Aluminum | Anodised Aluminum |
| Dimensions | 68 mm x 320 mm x 419 mm | 68 mm x 320 mm x 419 mm | 68 mm x 320 mm x 419 mm |
| Input Power | AC 110~230V, 50~60Hz | AC 110~230V, 50~60Hz | AC 110~230V, 50~60Hz |
| Power Consumption | 80W | 100W | 85W |
| CPU | Quad Cortex®-A76 @ 2.2~2.4GHz and Quad Cortex®-A55 @ 1.8GHz | Quad Cortex®-A76 @ 2.2~2.4GHz and Quad Cortex®-A55 @ 1.8GHz | Quad Cortex®-A76 @ 2.2~2.4GHz and Quad Cortex®-A55 @ 1.8GHz |
| GPU | Arm Mali™ G610MP4 | Arm Mali™ G610MP4 | Arm Mali™ G610MP4 |
| NPU | 16 TOPS | 24 TOPS | 48 TOPS |
| Memory | Up to 16GB 128-bit LPDDR4X | Up to 16GB 128-bit LPDDR4X | Up to 16GB 128-bit LPDDR4X |
| Video Compression | H.265+, H.265, H.264 | H.265+, H.265, H.264 | - |
| Video Encode | 16*5M-N@6fps(6 in 1)/ 16*4M-N@8fps(6 in 1)/ 16*1080P@8fps(6 in 1)/ default 5M-N | 4K(1+1)/ 5M(3+1)/ 4M(4+1)/ 3M(5+1)/ 1080P(8+2) | - |
| Video Decode | 16*5M-N@6fps(6 in 1)/ 16*4M-N@8fps(6 in 1)/ 16*1080P@8fps(6 in 1)/ default 5M-N | 4K(1+1)/ 5M(3+1)/ 4M(4+1)/ 3M(5+1)/ 1080P(8+2) | - |
| Video Playback | 16*5M-N@12fps(6 in 1)/ 16*4M-N@15fps(6 in 1)/ 16*1080P@15fps(6 in 1)/ default 5M-N | 4K(1+1)/ 5M(3+1)/ 4M(4+1)/ 3M(5+1)/ 1080P(8+2) | - |
| Video Input | Analog: 16*5M-N; Hybrid: 16*5M-N (Analog) + 4*1080P (Network); Network: 48*1080P | 36*4K | - |
| Video Preview | 1/4/8/9/16 | 1/2/4/6/8/9/16/25/36 | - |
| Record Mode | Manual > Alarm > Motion Detection > Timing | Manual > Alarm > Motion Detection > Timing | - |
| Search Mode | Search by Time, Calendar, Event, Channel | Search by Time, Calendar, Event, Channel, Face | - |
| Video Input Port | 16CH BNC / RJ45 Network | RJ45 Network | RJ45 Network |
| Video Output Port | HDMI | HDMI | |
| USB | USB2.0*2 | USB2.0*2 | - |
| Network Port | RJ45 10M/100M | RJ45 10M/100M/1000M | RJ45 10M/100M/1000M |
| HDD | 1*SATA port with 2TB Storage (Max 14TB) | 1*SATA port with 4TB Storage (Max 14TB) | - |