

Smart City: Edge AI People Counting

Real-Time ROI Analytics | High Performance | Low-Power Vision AI



Desktop-class performance and Vision AI in about 10 W, with no fan and hardware-based security to support CRA requirements.

A vision system counts people and analyzes their movement in real time, with all processing done at the edge. Users can define one or more Regions of Interest (ROI). The system tracks entries and exits, current occupancy, movement between areas, dwell times, and peaks and drops in traffic. These insights show how spaces are actually used and support better decisions about operations, staffing and layout. The solution suits retail stores, shopping malls, exhibitions, offices and public spaces.

CROSSPLAY INTEGRATION

Connected HMI

- WebRTC-ready, with real-time Vision AI overlays.

GRINN GENIOBOARD

MediaTek Genio 700

- Up to 4K60 over HDMI and DisplayPort; demo: Full-HD on a 15.6-inch screen.
- Typical power of about 6 W, fanless and built for 24/7 operation.

DEEPX M1 NPU

AI acceleration

- 25 TOPS from an M.2 PCIe card at 3-5 W.
- Offloads AI tasks from the CPU so the touch UI stays smooth under load.

INFINEON OPTIGA™ TRUST M

Hardware-based security

- Hardware key storage with cryptographic integrity checks.
- Supports implementation of EU Cyber Resilience Act (CRA) requirements.