EagleEye IPC Series

XTEE51216

5G/4G AI IoT

HD Bullet Network Camera

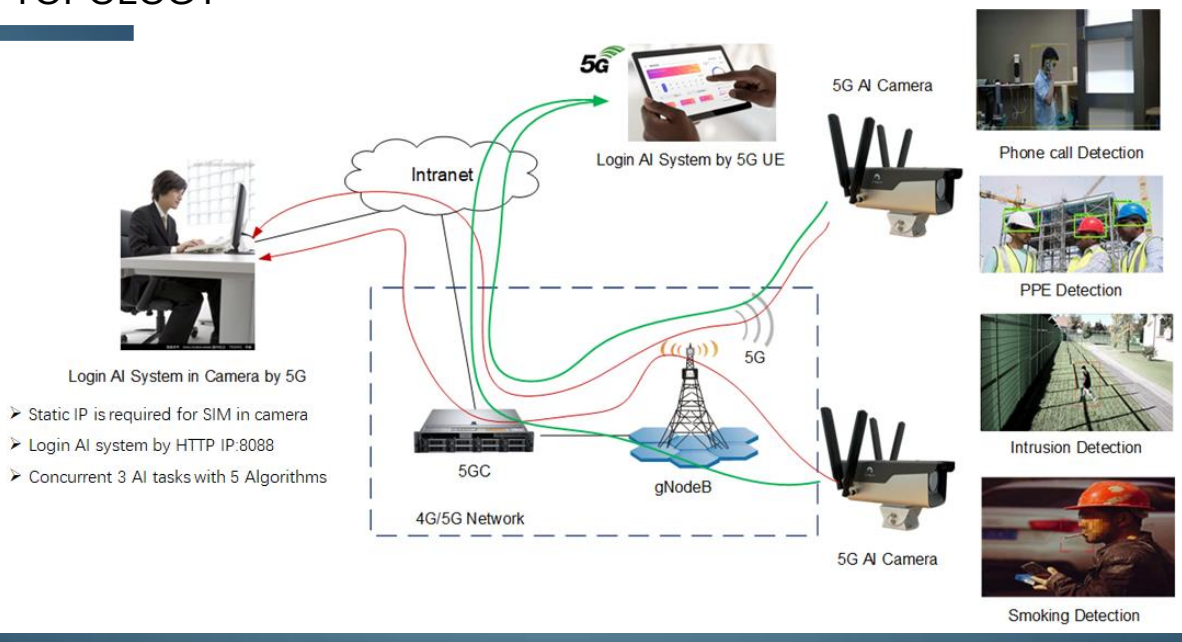
5G | H.265 | WDR | POE | Auto Focus | Smart IR | IP67

INTRODUCTION

KEY FEATURES

- **Built-in AI Module,** the IP camera has the AI operation capability of 15 TOPS, enhanced by industrial grade, Qualcomm Snapdragon 865 processor.
- **H.265,** optimized in bit rate, bandwidth and storage usage, 50% less than those of H.264.
- **Super WDR**, up to 140dB wide dynamic range to ensure all the bright and dark areas are well presented.
- **16X AF Lens**, keeping clarity and focus on the targeted objects rapidly and delivering high-quality images
- **5G/4G Cellular Network**, providing long distances and low latency HD video wirelessly using industrial grade, 5G/4G module.

TYPICAL TOPOLOGY



Built-in AI BENEFITS

- **High computing performance:** Each IP camera has a computing power of 15 TOPS that can service multiple AI applications at the same time.
- **Low latency:** AI inference operations are done on IP camera itself so that the latency is drastically reduced from that with AI operations done in an on-site AI BOX or cloud.
- **Low communication bandwidth:** Video transmission is terminated at IP camera and only AI processed data will be transmitted.
- **High-level data security and privacy:** AI operations are performed on IP camera itself and only the protected data, processed after AI operations, are transmitted.
- **Simple network deployment:** All-in-one IP camera integrates high-performance 5G module and AI module, so it can simplify the deployment with no external 5G CPE and AI edge box required.
- **High security:** Built-in 5G module can achieve guaranteed 4G/5G authentication, data security, and QoS.

Built-in AI FEATURES

- **High performance**

  Qualcomm Snapdragon 865 processor is comprised of 8-core, 64-bit ARM KryoTM CPU, 585 processor with clock frequency up to 2.84GHz, 4MB L3 cache, and CPU + GPU + NPU + DSP integrated SOC. It can provide outstanding performance to support multi-tasks and heavy-duty image processing tasks. Its 15 TOPS (15 trillion times per second) computing capability can meet the demand of challenging AI computing workloads.
- **Android + Linux Hybrid OS system**

  The Built-in Android + Linux Hybrid OS system combines advantages of Android and Linux. Android can provide thousands of user-friendly APPs while Linux can provide high security for APPs. APPs from both OS systems can seamlessly interact with each other to perform in a variety of application scenarios.
- **AI Tool Chain**

  Integrated with the world's 10 mainstream AI frameworks (TensorFlow, PyTorch, Caffe, MXNet, MNN, NCNN, MindSpore, PaddlePaddle, TNN, OpenCV) with out-of-box use experience. Built-in CPU + GPU + NPU intelligent acceleration technology improves ML inference performance by 15%-30%.

OS	Android 10+Linux Hybrid System
QC Chipset	**CPU:** 1 × Cortex A77 @2.84GHz + 3 × Cortex A77 @2.42GHz+ 4 × Cortex A55 @1.8GHz **GPU:** Adreno 650 **NPU:** Qualcomm® Neural Processing Unit (NPU230) **DPU:** Adreno 995 **VPU:** Adreno 665 **DSP:** Hexagon 698， 4 × Hexagon Vector eXtensions (HVX) **ISP:** Spectra 480 **RAM:** 8GB LPDDR5 **ROM:** 64G UFS2.1 or 128G UFS3.1
Available AI Algorithms	Smoke and Fire detection, Mask wearing detection, Helmet wearing detection, Off-the-job detection, Zone intrusion detection, People Counting detection, Cigarette/smoking detection, Phone call detection, Reflective vests detection