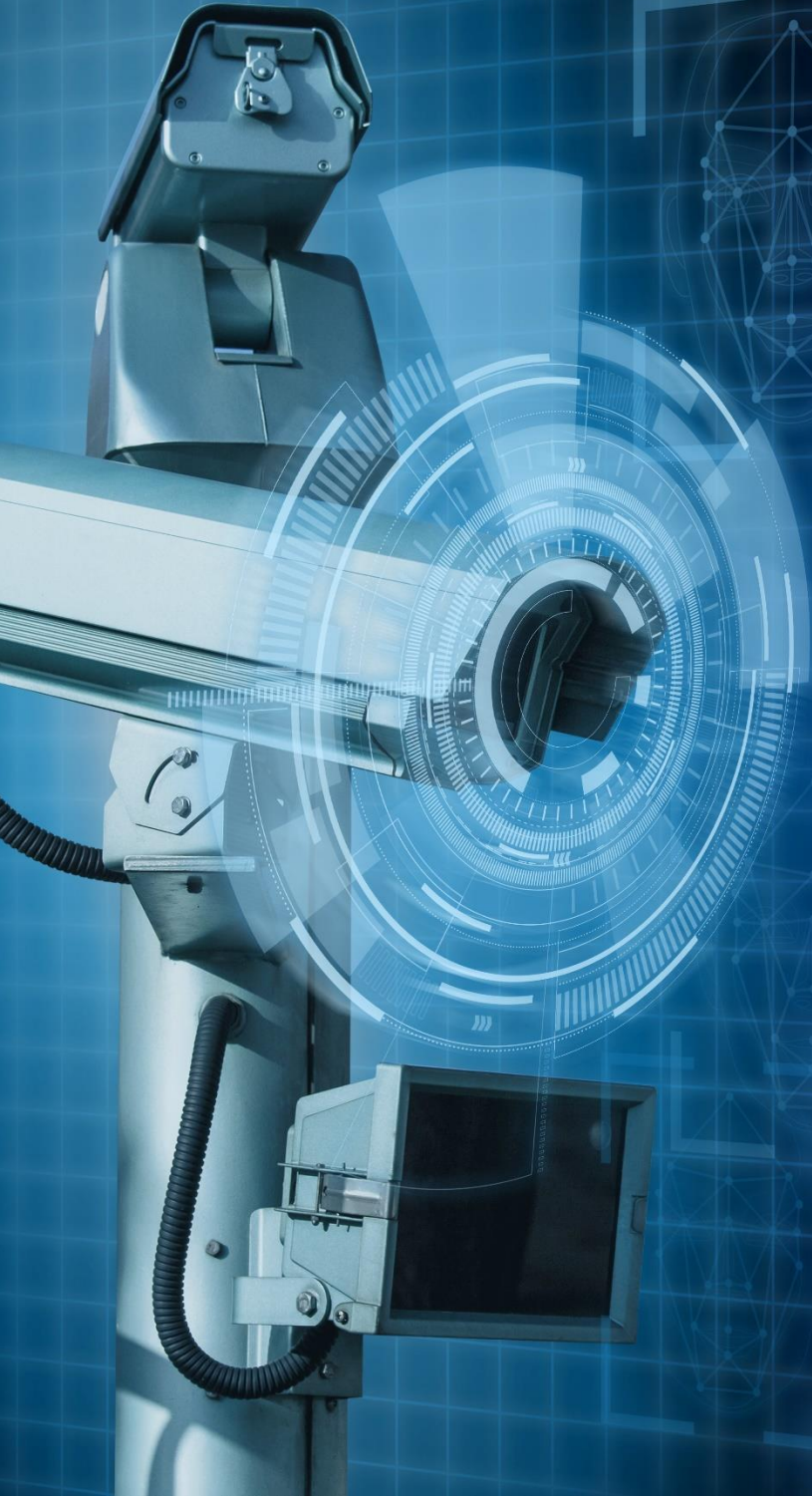


TATA ELXSI

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AI-Based Surveillance Camera



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MEDIA PIPELINE ENABLEMENT FOR SURVEILLANCE CAMERA SUPPORTING SPIKING NEURAL NETWORK

Gstreamer plugins for AI based High-end camera for Casino surveillance

Scope

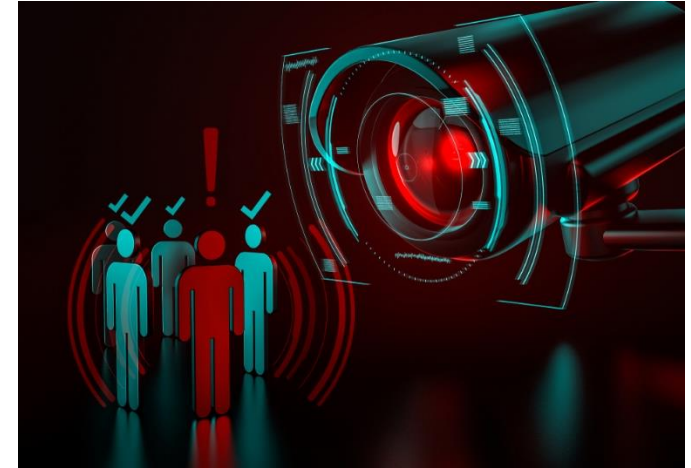
- Developing Gstreamer Plugins supporting Spiking Neural Network (SNN) for a high-end surveillance camera
- Analysis of Camera SDK and API interface definition
- Plugins compliant with Gstreamer, UVC drivers & custom SDKs
- System testing and profiling
- Support on Windows and Linux

Challenges

- High performance targets - 30fps in 1080p resolution over USB 3.0
- Compliance with UVC drivers

Tools & Framework

- Gstreamer
- Proprietary API's



Market	Delivery model	Business Benefit
Surveillance	Fixed Bid	Standardization Through Streamer Compliance