

Key Features of Seyeon Tech camera

2025

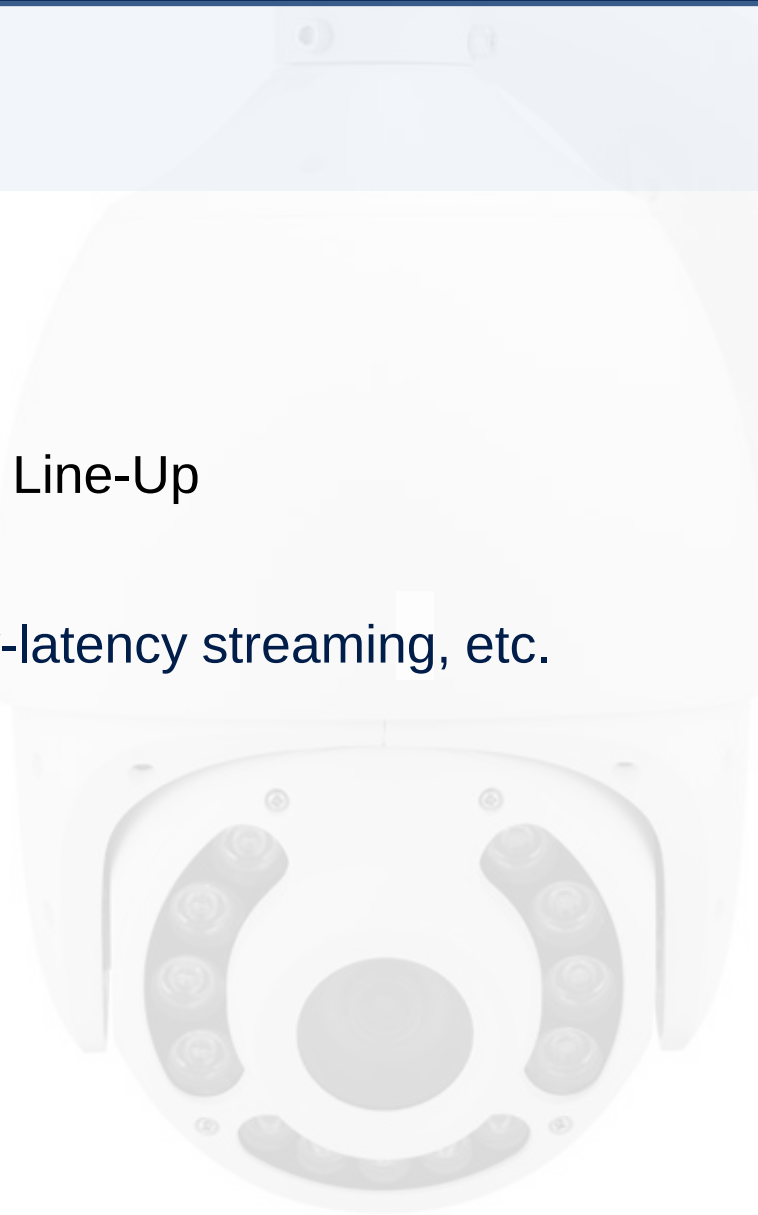
Seyeon Tech

Table of contents

1 **Various Products Line-up**
Modules, Finished Products, and Performance-Based Line-Up

2 **Key differentiating Features**
Diverse streaming, open AI SDK, multi-streaming, low-latency streaming, etc.

3 **Compatibility and Scalability**
compatibility, Interoperability, TAS



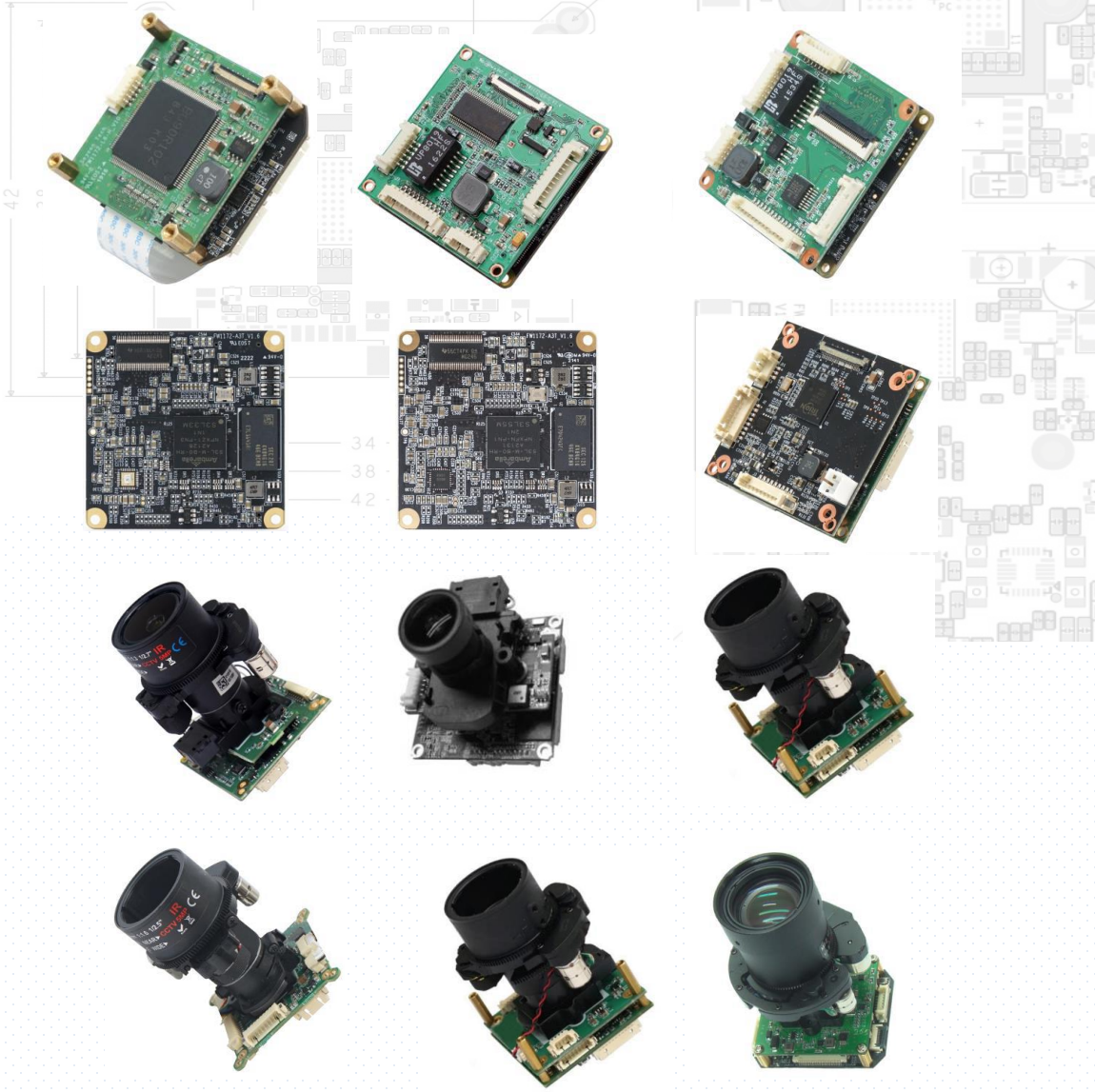
IP Camera module

2M ~ 12M IP camera module
Eyenix, Ambarella IP camera module (NDAA free)
SONY sensor (307, 335, 385, 662, 462, 678, 900, 264, 265, 412, 565, 567 etc.)
Supports Rolling shutter, Global Shutter sensor
BT1120/LVDA/YUV Input support module (zoom block, Thermal imaging module etc.)
42x42, 38x28, 1.5 board, single board

AI-VA support
Intrusion detection, line crossing, tampering
Object tracking, Object counting
Face detection
License Plate Detection

ONVIF Profile S/T

Open AI SDK support Service
Continuous software integration service (supports various streaming and security functions)
Supply of various Lego-type modules (about 20 types of modules)



IP camera finished products

2M ~ 12M Dome, Bullet, PTZ IP camera (NDAA free)
Finished cameras with Eyenix, Ambarella IP camera module
SONY sensor (307, 335, 385, 662, 462, 678, 900, 264, 265, 412, 565, 567 etc.)
Supports Rolling shutter, Global Shutter sensor
Various camera housings for different applications
Diversifying our own IP PTZ cameras

AI-VA support
Intrusion detection, line crossing, tampering
Object tracking, Object counting
Face detection
License Plate Detection

ONVIF Profile S/T

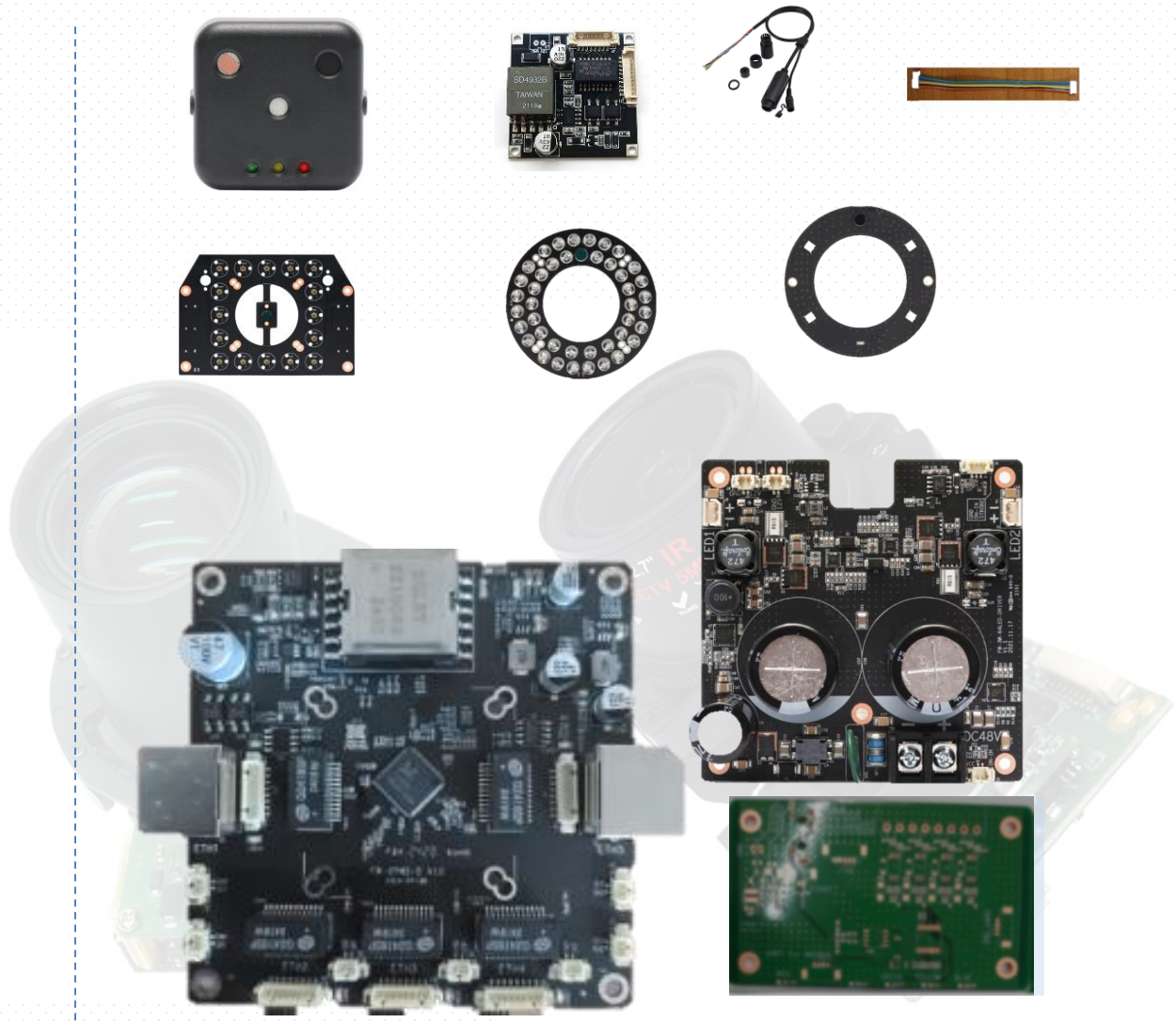
Open AI SDK support service
Continuous software integration service (supports various streaming and security functions)

Support for various development collaborations using IP modules



Various Accessories

38mm x 38mm dedicated POE module
Dome, Bullet dedicated LED module
Global shutter application Power module (supports 50Watt, instantaneous peak 400Watt)
Dedicated harness cable
Data Power Supply Module (CPNS)
Sensor box (Temp, Flame, CO_2 Gas)
Traffic Light Detector (TLD)



Various SoC environments

- Commercialization of popular, premium IP camera modules and finished products
- Support for various Tops' NPUs
- Complete Eyenix 1.2Tops line-up
- Complete Eyenix 5Tops product lineup (Q3, 2025)
- HAILO 5/11/20Tops product lineup (Q2, 2025)
- Jetson Nano/NX product lineup (partial lineup completed, Q4, 2025)

eyenix the great eyes

HAILO Empowering Intelligence

NVIDIA JETSON

Ambarella™

Various streaming

Supports multiple streaming methods simultaneously to support various applications

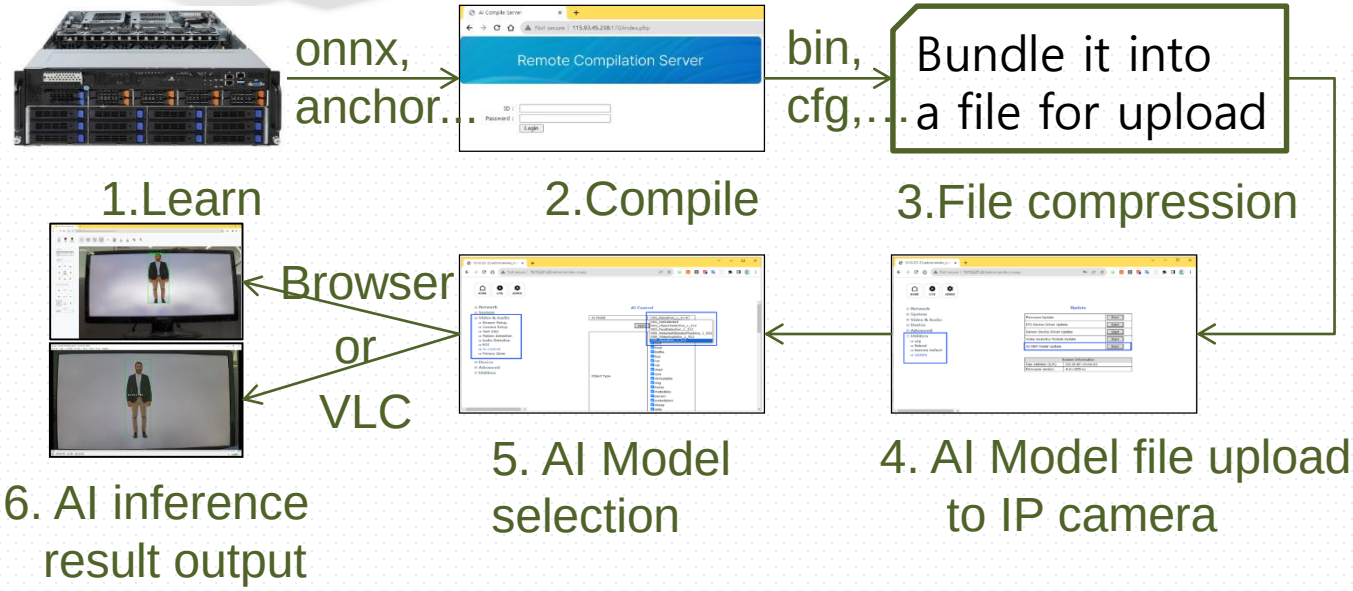
- Independent streaming method (lowest latency)
- RTP/RTSP streaming
- RTSPS streaming (over TLS)
- RTSP streaming over HTTP tunneling
- RTSP streaming over HTTPS tunneling
- Websocket streaming (for multi-browser)

“Open AI SDK

Develop your own AI functions with minimal development effort

Learning and inference using models supported by SOC manufacturers (popular product line: MobiletNetV2 + SSDLite, Deformed YOLOv7-tiny)

Support for learning and porting methods according to SDK procedures



“Low-latency streaming

150msec glass to glass latency for Full HD

Seyeon Tech's own streaming method
Minimal buffering and low memory usage

Used in applications requiring real-time performance

Glass to Glass Latency

The delay time from the camera lens to the monitor screen including compression, transmission and decoding

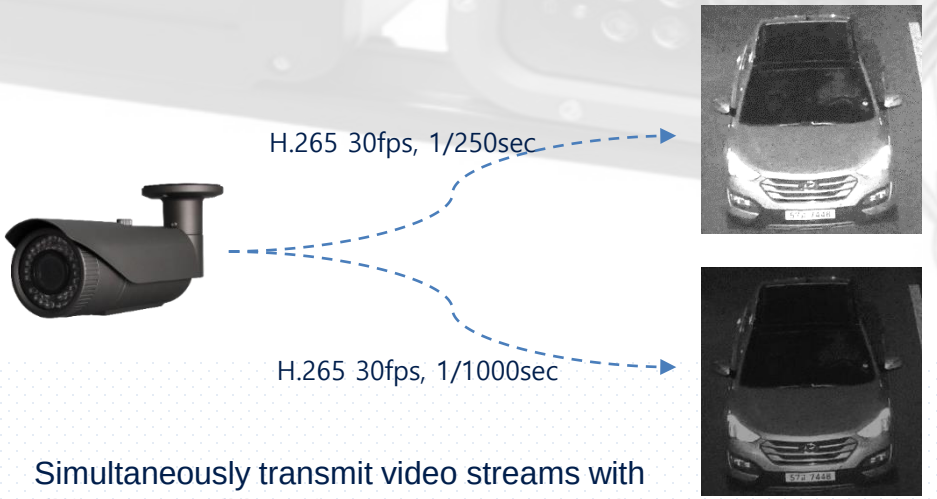


“Multi-shutter streaming mode

Simultaneous transmission of dual streams (Seyeon’s own development)

Simultaneous transmission of multiple video streams with different shutter speeds and ISP values from a single camera (limited to some models)

Ideal for license plate detection at night



Simultaneously transmit video streams with different conditions from one camera, and the client selects and uses the screen appropriate for the purpose.

“Frame Sync Mode

Master-Slave Frame synchronization

If the frame sync of the camera is not the same, the image quality of the captured image using the LED will be uneven and unusable in the case of a global shutter camera.

To complement this, it is equipped with hardware and software functions that support DualSync mode that can synchronize between camera modules.

Synchronize two global shutter cameras using one Strobe LED to capture and transmit screens

This feature is supported on some models and can be used to create stereo cameras.

“Single Firmware

Support all models with a single firmware

Manage firmware for all Models with a proprietary system called PNcode

System that supports Forward/backward compatibility

Support all OEM/ODM product with one identical firmware

Management code named PNcode

Define hardware differences and initial values of OEM/ODM models

Individually define hardware information (e.g. DDR, Flash size), sensor type, external interface (e.g. sd, voice, GPIO, serial port), etc.

Individually apply initial value settings for each OEM/ODM customer product

PNcode can be individually assigned during production or individually

Compatible with various VMS/NVR

Integration with various NVRs & VMSs
(Korean domestic and international NVRs & VMSs)
Support for periodic upgrades
Extensive technical support services

Support for ONVIF Protocol, an industry standard
Support for ONVIF Profile S/T, Metadata transmission and maintenance
Free support for TTA, National intelligence Service security certification

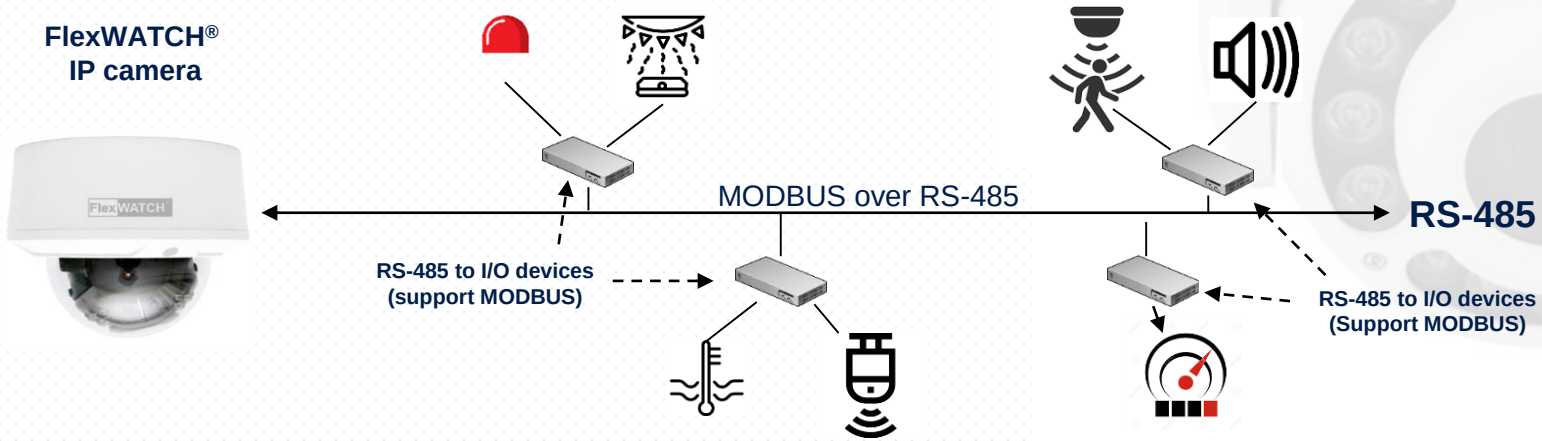
ONVIF® IDIS® 이노뎁 innovative development INODEP
DANUSYS Hanwha FlexWATCH®
VERINT
milestone TVT
Genetec™
HIKVISION® AVIGILON™
REALHUB

“Trigger Action Service (TAS)

Define **input devices**, define **service conditions**, and define **output devices** so that the service operates when the conditions are met.

Integration of input and output devices connected based on th e MODBUS protocol

Support for MODBUS gateway function





Thanks

www.flexwatch.com
www.seyeon.co.kr