



PRESS RELEASE

e-con Systems Inc.

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For immediate release

e-con Systems launches rugged and powerful Ready-to-Deploy IP66 Smart AI camera

SONY STARVIS IMX290 Sensor | NVIDIA TX2 | AI Smart Camera

San Jose and Chennai (May 26, 2021) - e-con Systems Inc., a leading embedded camera solutions provider launches an IP66 rated and Ready-to-Deploy smart camera, [SmarteCAM](#) with AI processing capabilities. SmarteCAM comes with a camera based on the **SONY STARVIS IMX290** image sensor with an Image Signal Processor (ISP) that supports High Dynamic Range (HDR) and an **NVIDIA® TX2 module** as the host.

The host – NVIDIA® TX2 processor – can run multiple algorithms required for any AI based application or use case. SmarteCAM can be connected to the internet or host PC using gigabit ethernet LAN. Also, there is no need for any additional driver installation. With all the necessary firmware built-in along with sample application, SmarteCAM will help companies significantly reduce their time to market.

This camera is suitable for applications such as crowd monitoring & analysis, smart farming, sports broadcasting, Intelligent Video Analytics (IVA), smart traffic, smart cities etc.



Fig 1: SmarteCAM

Key Features

- **Ultra-low Light Performance** - Captures exceptional images even in extremely low light.
- **High Dynamic Range (HDR)** - Helps to capture quality images even in outdoor lighting conditions when the target scene has both dark and bright regions.
- **IP66 (water and dust proof)** - makes this camera suitable for use in harsh outdoor environments.
- **Powerful AI processing** capabilities with on-board TX2 CPU and 256 core GPU - delivers output without the connectivity or power of the cloud.
- PoE (IEEE 802.3at) offers the ability for power as well as data transmission over a single Gigabit ethernet interface.
- Streams 1080P@60fps in MJPEG and H264 formats. Also supports uncompressed UYVY streaming.
- An optional 4G LTE support allows data transfer over 4G network.



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Watch video: <https://www.youtube.com/watch?v=rT7rVRovN0o>

SmarteCAM comes with a standard M12 lens holder and 4 different lens options with diagonal Field of View (FOV) ranging from 112° (D) to 22.30° (D) for various indoor and outdoor applications. The camera also includes an on-board storage of 32GB eMMC 5.1 with expandable microSD card support. Other peripherals include HDMI type A connector, a USB 2.0 host port, and custom header connector for software updates.

SmarteCAM is packaged with BSP Version L4T 32.2.1 (JetPack 4.2) and e-CAM22_USB firmware version 1.1.3.11 (For default 3.6mm lens). To run new age edge-AI powered applications, SmarteCAM comes with a software package that includes CUDA 10.0, OpenCV 3.3.1, Python 3.6 and 2.7, Tensorflow 1.14.0, Tensorrt 5.1.6, libcudnn 7.5.0.56 and libnvinfer 5.1.6.

Availability

Customers interested in evaluating SmarteCAM can purchase the product from e-con Systems' [online store](#).

Customization Services

e-con systems also offers extensive integration support to connect SmarteCAM with three of its other cameras based on Sony STARVIS® IMX415, ON Semiconductor® AR0234 or ON Semiconductor® AR0821. We also provide engineering services to develop machine learning and deep learning algorithms for applications such as facial/object recognition, people counting, vehicle monitoring etc.

If you have any queries related to the product, please contact us at camerasolutions@e-consystems.com.



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About e-con Systems

e-con Systems Inc. is a leading embedded camera solutions provider. We have a proven track record of serving customers globally across multiple industries for over 18 years. We provide specialized offerings such as camera modules, USB camera modules, camera boards for various microprocessors, camera device driver development services on Windows/Linux/Android operating systems, camera reference design, software ISP, camera customization and camera tuning.

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