

## **e-con Systems™ launches a Time of Flight (ToF) camera for accurate 3D depth measurement**

*Depth & RGB in single frame | 640×480 depth map | Frame rate - 30 fps | USB 3.1 Gen 1 | Low light*

**San Jose and Chennai (May 17, 2022)** – e-con Systems™, a leading embedded camera company, launches [DepthVista – a Time of Flight \(ToF\) camera](#) that comes with a combination of a ToF depth sensor for depth measurement and the AR0234 color global shutter sensor from Onsemi for object identification.

[DepthVista](#) is a high-resolution depth camera that is capable of capturing 640×480 depth maps at a frame rate of 30 fps. This allows [autonomous mobile robots](#) and guided vehicles to perceive their environment and navigate safely. One of the notable features of DepthVista is that it does not require ambient illumination for optimal performance, making it suitable for systems operating in low light or even complete darkness. Furthermore, the depth calculation is performed in the camera itself, eliminating the need for it to be performed on the application side. This reduces computational load and provides a ready-to-use frame with the necessary depth information.



*“Depth sensing is an important attribute for the next generation devices to see and understand the world in 3-dimensional perspective. Having depth data in addition to regular 2-dimensional RGB image throws up lot of opportunities in not only new age applications of robotic arms, autonomous mobile robots etc but also in traditional applications of patient/people monitoring or biometric authentication, where the additional depth attribute solves the hitherto unresolved problems and throws up lot of exciting new disruptive use cases. Having launched our first depth sensing camera in 2012, e-con has been committed with 3d cameras and DepthVista is our first iTOF( indirect Time-of-Flight) depth camera that offers 3d depth information, IR image and corresponding RGB image, all in a single compact form-factor. DepthVista will be the right camera for all applications requiring 3d sensing and our customers can benefit from our customization capabilities to customize the Depth/IR/RGB imaging from a single device based on their application requirements.” said Ashok babu, President at e-con Systems™.*

### Key features of DepthVista:

- **Depth and RGB stream in a single frame:** Allow for object recognition as well as depth measurement in a single frame.
- **No need for ambient lighting:** Suitable for systems that operate in low light or even total darkness
- **Depth calculation within camera:** Eliminating the need to perform it on the application side, which reduces computational overhead.
- **Depth with high resolution:** Capturing a 640x480 depth map at 30 fps allows autonomous vehicles and robots to accurately perceive their surroundings for navigation and object recognition.
- **Far mode and close-range mode:** Offers a maximum and minimum range of 6 meters and 0.2 meter respectively.

A combination of the features mentioned above makes [DepthVista](#) suitable for applications such as

- [Autonomous mobile robots](#) like warehouse robots, and service robots
- Robotic arms
- Autonomous guided vehicles
- People counting in Retail Analytics
- Face recognition based anti-spoofing devices
- Patient care/Patient monitoring

Video: <https://www.youtube.com/watch?v=8JIBTZCXkHw>

### Availability

Customers interested in evaluating [DepthVista](#) – can purchase the product from e-con Systems' online store. Please visit the [DepthVista](#) product page and click the buy now button to navigate to the [webstore](#) and purchase the product.

### Customization and integration support

e-con Systems™ will provide all the necessary customization services and end-to-end integration support for [DepthVista](#) to meet your application's unique requirements. Please write to us at [camerasolutions@econsystems.com](mailto:camerasolutions@econsystems.com) if you are looking for any customization or integration support.

### About e-con Systems™

e-con Systems™ is a leading OEM camera manufacturer with 18+ years of experience and expertise in embedded vision. It focuses on delivering vision and camera solutions to industries such as retail, medical and industrial. The company's wide portfolio of products includes MIPI camera modules, GMSL cameras, USB 3.1 Gen 1 cameras, stereo cameras, etc with both rolling and global shutter sensors. e-con Systems™ strives to become a global leader in the embedded vision space through continuous innovation and helping its customers accelerate product development and reduce time to market. It has built over 250+ product solutions and shipped over 2 million cameras around the globe. What sets the company apart is its deep expertise in building customized product designs to ensure rapid prototyping through custom modifications in camera hardware as well as software which include form factor modifications, ISP tuning, carrier board development, lens calibration, and much more. [Click here](#) to know more about e-con's suite of customization services.

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