e-con Systems™ launches a new 3D ToF MIPI camera for NVIDIA® Jetson processors

940nm/850nm | MIPI CSI 2 | Multi-camera support | NVIDIA | Depth range upto 12m | <1% accuracy

California and Chennai (March 03, 2023) - e-con Systems™, a leading OEM embedded camera manufacturer and solution provider launches DepthVista_MIPI_IRD, a 3D Time of Flight (ToF) camera for NVIDIA® Jetson AGX Orin™/ AGX Xavier™ with outdoor robustness.

DepthVista_MIPI_IRD is a 3D ToF MIPI camera designed for precise 3D depth measurement. It comes with a wider spectral range to power outdoor as well as indoor embedded vision systems. The camera uses the MIPI CSI 2 interface to connect to NVIDIA® Jetson AGX Orin™/ AGX Xavier™. It has a scalable depth range up to 12 meters (6m by default).

**Key features of DepthVista_MIPI_IRD**

- **940 nm / 850nm** – Precise 3D imaging in both outdoor and indoor lighting conditions.
- **Depth scalability** – Scalable depth range up to 12m (6m by default). Comes with <1% accuracy.
- **Multicamera without interference** - A proprietary technique is used to operate multiple ToF cameras without interference noise to provide reliable depth data.
- **Compatibility with NVIDIA Jetson** - Ready to deploy with NVIDIA Jetson platforms for easy and quick prototyping.
- **On-camera depth processing** – Avoids complications like running depth matching algorithms on the host platform.

To know more about these features in detail, [click here](https://www.youtube.com/watch?v=3f9qeT1YpgM).
“Last year, we launched a 3D USB camera solution powered by ToF technology, specifically designed for applications that operate in indoor environments. We have since received several requests for a 3D depth camera suitable for outdoor environments that can also work with the NVIDIA Jetson processor family through a MIPI-CSI2 interface. So, we are now launching DepthVista_MIPI_IRD, a ToF MIPI camera, for NVIDIA Jetson platforms. It is perfect for indoor and outdoor embedded vision applications.”, said Gomathi Sankar, Business Unit Head- Industrial at e-con Systems™.

Availability

Customers interested in evaluating DepthVista_MIPI_IRD can visit the online web store and purchase the product.

Customization and integration support

e-con Systems with its deep expertise and knowledge in various camera interfaces and depth sensing technologies provides necessary customization services and end-to-end integration support for DepthVista_MIPI_IRD to meet your application’s unique requirements. Please write to us at camerasolutions@e-consystems.com if you are looking for any customization or integration support.

About e-con Systems™

Established in 2003, e-con Systems has grown into a leading OEM camera solution provider with a wide global footprint. We provide end-to-end camera solutions like MIPI camera modules, GMSL cameras, FPD Link III cameras, USB 3.1 Gen 1 cameras, GigE cameras, stereo cameras, and more. Over the years, we have reimagined how they are used in industries such as retail, medical, industrial, agriculture, smart city, etc.

We are also powered by a strong partner ecosystem including sensor partners, ISP partners, carrier board partners, etc. This enables us to offer end-to-end vision solutions. So far, we have built 250+ product solutions – shipping over 2 million cameras across 90+ countries around the globe.

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