RGo Advances New Era of Intelligent Automation with NVIDIA Isaac Integration

CAMBRIDGE, Mass - June 2, 2024 - RGo Robotics, a leading provider of AI-powered, location-aware artificial perception platform, today announced the integration of NVIDIA Isaac robotics technologies into RGo Robotics platforms to help advance AI-powered automation.

RGo's Perception Engine, a proven and deployed vision and AI solution for localization, obstacle detection, and scene understanding, will integrate NVIDIA Isaac Perceptor technologies to provide advanced vison capabilities to AI-based autonomous mobile robots. This integrated software stack is compatible with the newly released NVIDIA Nova Orin Developer Kit.

Using RGo's powerful and reliable perception solution with NVIDIA Isaac Perceptor, running on NVIDIA Jetson Orin modules, customers can deploy intelligent mobile robots within few months. A mobile robot based on Isaac Perceptor acceleration libraries with RGo can easily and quickly be set up in new facilities, operate reliably in any environment — even in complex, dynamic ones where there is a high level of change — and automate tasks both indoors and outdoors.

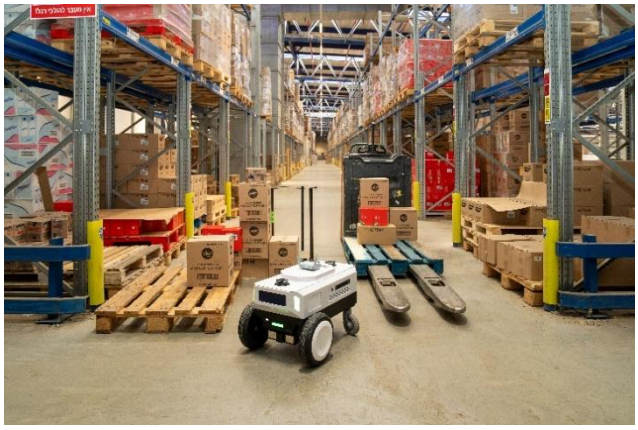
By using RGo with Isaac Perceptor, customers can leverage the unique data generated by the platform, including positioning, dynamic mapping, and geometric and semantic understanding, to enhance intelligent robots with GenAI-powered autonomy, natural language human-robot interaction, advanced analysis, and insights.

Leveraging NVIDIA Isaac software tools and packages, as well as NVIDIA Metropolis vision AI developer tools to build, deploy, and scale vision AI and generative AI, RGo can offer advanced capabilities like generation of facility maps using just a camera and identification of obstacles, including very challenging ones like forks on the floor, as well as other features that are unique to specific customer needs.

"The RGo Perception Engine running on NVIDIA Jetson Orin modules is already deployed in dynamic and complex warehousing and manufacturing environments, helping enable intelligent automation in places not possible before," said Amir Bousani, Co-Founder and CEO of RGo Robotics. "The expanded integration and availability of the RGo Perception Engine with NVIDIA Isaac Perceptor will help enable many more customers to deploy more intelligent mobile machines that can operate reliably in any environment. Visual perception is an enabler for the generative AI revolution in robotics."

"The era of robots powered by physical AI is here," said Deepu Talla, Vice President of robotics and edge AI at NVIDIA. "RGo's solutions for AMRs, accelerated by NVIDIA Isaac, will let customers across industries deploy mobile robots that can better perceive, understand and interact with the world around them."

In his COMPUTEX keynote, Jensen Huang, NVIDIA CEO will show how an autonomous mobile robot, powered by NVIDIA Isaac Perceptor and RGo Perception Engine was set up to run in real customer environment within 3 days. Watch the keynote at https://www.nvidia.com/en-us/events/computex/?ncid=em-even-936129



NVIDIA Nova Carter Robot powered by NVIDIA Isaac Perceptor & RGo Perception Engine running in a busy warehouse after very short integration and set-up of the facility

About RGo Robotics

RGo Robotics pioneered and deployed an AI-powered location-aware perception solution that enables mobile machines to perceive their surroundings and learn on-the-go using state of the art and proven computer vision and AI algorithms as well as sophisticated and scalable sensor fusion technology. RGo Perception Engine enables autonomous driving of robots, remote operations, tracking of assets and inventory, geofencing, and dynamic shared mapping. It can be easily integrated into mobile machines at the point of manufacturing or as an add-on post market. RGo's team comprises world-class leaders with vast industry experience in bringing AI-powered industrial-grade software to scale. RGo Robotics has offices in Cambridge, Massachusetts, and Caesarea, Israel, and is backed by a diversified set of leading investors and strategic partners.

https://www.rgorobotics.ai/

The NVIDIA press release can be found here

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