From Ground to Everything, Accelerating Computing

— Comprehensive Solutions for a Smarter Future

KENMEC (TPEX: 6125) upholds the core concept of the KMAI model, "From Ground to Everything," integrating the NVIDIA Omniverse platform with cutting-edge AI technology to provide comprehensive solutions spanning from infrastructure to intelligent applications. We are committed to driving digital transformation, fully unleashing the potential of Physical AI and enabling real-time collaboration and intelligent decision-making.

By leveraging NVIDIA Omniverse technologies, KENMEC has developed a Digital Twin platform to simulate factory operations, offering businesses precise production planning and layout optimization. By collecting and modeling real-time data, businesses can predict production bottlenecks, optimize processes, and significantly enhance operational efficiency while reducing trial-and-error costs, ensuring decision accuracy and reliability.

KENMEC provides virtual training for semiconductor Overhead Transport (OHT) systems, robots, and equipment, effectively improving production efficiency and operational safety while reducing physical testing time and costs.

Leveraging AI algorithm analysis, training results are fed back into the Digital Twin platform, further optimizing production decision-making processes and ensuring the precision and stability of smart manufacturing and logistics systems.

By seamlessly integrating optimized virtual simulation results into physical applications, KENMEC builds highly efficient smart factories and intelligent logistics systems. Whether it's enhancing productivity, reducing operational costs, or optimizing logistics, KENMEC offers customized AI solutions to help businesses transition towards digitalization, intelligence, and sustainable development.

At the NVIDIA GTC Conference, KENMEC officially launched three major AI solutions based on the KMAI model ("From Ground to Everything"), accelerating computing and preparing enterprises for the era of smart technology.

Three Advanced AI Solutions.

1. Digital Twins — Powered by NVIDIA Omniverse

Revolutionizing Traditional Manufacturing with Smart Design and Simulation.
KENMEC leverages NVIDIA Omniverse to deliver a comprehensive AI smart manufacturing integration solution, offering real-time decision support through a

"Real to Sim & Sim to Real" framework, seamlessly bridging the physical world and digital twin environments.

By utilizing AI-driven intelligent algorithms, KENMEC can accurately identify production bottlenecks, provide optimal decision-making recommendations, and help businesses enhance manufacturing efficiency, ensuring they remain competitive in a fast-evolving market.

2. Intelligent Video Monitoring – NVIDIA Metropolis

KENMEC uses NVIDIA Metropolis to build perceptive visual agents that provide valuable operations measurement and oversight across factories and warehouses using a matrix of video cameras installed in their facilities.

Using multi-camera tracking, KENMEC is able to centralize and track locations, movement, and trajectories of people and objects all in one tops-down operations view across entire facilities.

Data Integration and Synchronized Analysis: AI algorithms process and unify multi-camera data streams, achieving comprehensive dynamic scene monitoring.

Anomaly Detection: Using VLMs and Metropolis video search and summarization (VSS) blueprint, KENMEC can automatically identify abnormal events (such as cargo loss or transportation delays) and immediately notifies relevant personnel, improving logistics security and response times.

Intelligent Visual Analysis: Provides real-time visualized data, helping managers quickly understand site conditions and support accurate decision-making.

3. Autonomous Mobile Robots (AMR)— NVIDIA Jetson™

AI-Powered Edge Computing for Autonomous Mobile Robots (AMR)

KENMEC's AMR system is powered by the NVIDIA Edge AI platform, providing high-performance AI acceleration computing and supporting multi-modal generative AI, making it highly suitable for robot development and deployment.

Core Application Areas includes Humanoid Robots and Autonomous Mobile Robots (AMR) for Delivery, Warehousing, and Smart Logistics