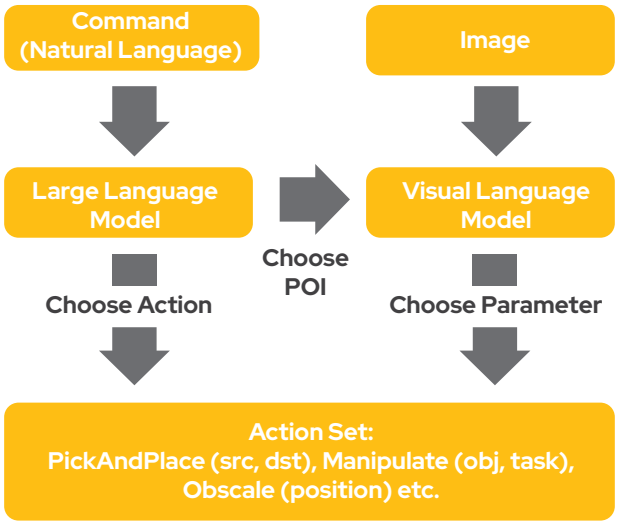
KLG SMARTEC

EMPOWERING INDUSTRIAL AI:
REVOLUTIONIZING ROBOTIC CONTROL

The industrial AI system operates a robotic arm through the smart controller, NewPre 3102, equipped with Intel chips. Using AI models, it translates human language commands into robot motion commands, enabling intuitive control. Built on the Winux-RT industrial OS, it achieves a 1ms control cycle, meeting real-time motion control requirements for robots.

The Winux-RT incorporates an AI large-model engine with self-developed semantic algorithms to interpret information and generate motion functions for robots. Tasks are parsed into executable parameters by an AI robot language model, which are further analyzed by a visual language model to pinpoint coordinates within the algorithm. These coordinates are then utilized as motion parameters for executing action commands. The system is easy to use and doesn't need complicated training or development.



MaVIEW Motion Code

The Winux-RT industrial OS offers a unified platform for integrating control, computation, and cloud services in intelligent control systems. It enables simultaneous isolation of real-time and non-real-time tasks. Through virtualization microkernel technology, it upgrades communication from traditional Modbus between devices to shared memory within a single device, enhancing communication efficiency and ensuring system stability and reliability in demanding industrial environments.

The MaVIEW industrial software supports logic control, robot control, and various business developments. It uses advanced technology to control movements in real-time based on understanding and making logical connections. The Winux-RT intelligent robot control system enables robots to transition from traditional automation to intelligence, reaching world-leading levels in functionality and performance, showcasing China's leading position in R&D capabilities in the field of industrial AI.

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