



PC-BOT

Networked, Mobile Sensor Platform



The PC-BOT from White Box Robotics creates a new playing field in commercial/industrial sensing and security. The PC-BOT is the world's first mobile PC robot. Leveraging PC industry costs, you can mount the sensors you need on collaborating mobile platforms and radically improve performance and economics. The PC-BOT brings sensors to the assets instead of the other way around. And do it with 24/7 precision, vigilance and loyalty.

Mobile Robotics Value to the Enterprise

Businesses will be transformed and redefined through the innovative application of mobile robots. Where tasks are “distributed, dull, dangerous or dirty”, robots are ideally suited to reduce costs and grow revenue by transforming the way we work and the way we deliver value to our customers.

Mobile, autonomous, networked sensor platforms can collect variance data and provide response mechanisms in a manner superior to fixed equipment and personnel. Robots don't replace people and fixed sensors, but rather augment them and provide new cost-benefit models, allowing growth of operations without growing workforces at the same rate. The applications our PC-BOT facilitate include “security, health and assistance” for facilities, assets and people.

Mobile robotics can now provide viable alternatives to legacy approaches... and with the PC-BOT we have hit a price / performance milestone that enables functional robotic systems with low total cost of ownership.

Networked Mobile Sensors as a Value Driver

Networked mobile sensors do a better job, improving efficiency and driving down costs. Example: a team of ten robots equipped with RFID readers can scan an entire warehouse continuously, doing a complete inventory and health scan of crates and contents, feeding updated inventory maps to a back-end application that optimizes the pick schedule for the next arriving truck. Networked mobility of your RFID readers delivers systematic precision, higher efficiency, lower cost and faster results. And at the same time, the robots can detect the presence of dangerous materials and monitor environmental factors such as temperature and moisture.

A mobile sensor network can be deployed rapidly, with precision. Example: a dynamic, ad-hoc “network edge” can be deployed quickly in the event of a breakdown in any portion of a

fixed sensor infrastructure (asset protection, supply chain, security, etc.), taking over sensing functions until normal conditions are restored. This same mobile edge capability can be deployed to map out a changed or unknown environment, or to scan during the unloading of an aircraft.

Networked mobile sensors can keep people out of harm's way, they extend our reach and they act as a force multiplier.

Example: a team of robots gives a single security guard, operating from a position of safety, a wide-area, 24/7, real-time situational awareness with mobile response mechanisms. This security capability delivers unpredictable patrol patterns, the ability to disrupt and interdict by approaching and recording an image of an intruder, opening an audio channel to the human guard, spraying anti-traction gel or pepper spray, and so on.



PC-BOT: Affordable, Practical, Real

The White Box Robotics PC-BOT represents the convergence of the personal computer and mobile robotics. It delivers PC standards-based interoperability, PC industry cost structures, availability of thousands of off-the-shelf parts, and supportability by existing IT resources. The PC-BOT can be easily configured to perform a myriad of functions and integrate seamlessly with enterprise systems. It defines a new reality in mobile robotics; one that is practical, affordable and here today.



Dream in White

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