

# Toyota, Invisible AI team up to deploy an AI computer vision system in factories

Article

**The news:** Toyota is expanding a collaboration with Invisible AI with a goal of making its North America factories safer and more productive for higher-quality manufacturing.

- The latest angle of the two-year partnership involves the rollout of the Austin, Texas-based startup's **AI computer vision platform in 14 of Toyota's manufacturing centers**, [per](#) Forbes.
- Invisible AI, which was founded in 2018, will deploy its **500 edge AI devices** at each plant. The devices feature a built-in **Nvidia Jetson** chipset, 1 TB of storage, and a high-resolution 3D camera to track the entire factory floor, per Forbes.
- In addition to monitoring overall operations, **the system can analyze human bodies in motion, including movement of the torso, limbs, and joints, looking for red flags**, [per](#) Core77.

**Better cars, faster:** Automakers are steadily embracing [automation](#) and [AI](#) in manufacturing with the hopes of continuous operational improvement.

- Although security cameras are commonplace in industrial settings, Invisible AI's system represents a deeper, more analytic level of surveillance.
- The AI computer vision model reportedly constantly processes data from video feeds, yielding real-time data and insights about what could be improved for better operations.

**Self-conscious factories:** Generally speaking, the more information and insights a company has, the better. As Invisible AI **CEO Eric Danziger** told Forbes, "If you can't see problems, you can't solve them."

- And yet, while AI surveillance systems would work well for a workforce of robots, [human awareness](#) that a computer is constantly watching and analyzing their movements could have a mental toll and [alter behavior](#) in ways not fully understood.
- While the movement analysis could help workers improve ergonomics and prevent repetitive motion injuries, **such scrutiny could also risk mobility [discrimination](#)**.
- Toyota and Invisible AI have said that the **data will be anonymized outside of immediate production levels, including by blurring faces**.
- However, facial recognition is only one identifier. Individuals could also easily be recognized by other physical attributes, such as a limp.

**The big takeaway:** The technology can deliver unprecedented insights that could help eliminate inefficiencies and safety hazards in the automaking process. However, it raises a question: Would corporate executives welcome the same level of dissection of their work that their blue collar colleagues will receive?



# Biggest AI-Related Risks Currently Facing Their Organization According to US Executives, Jan 2022

% of respondents

Cybersecurity

69%

Data privacy

65%

Compliance with various state and local regulations

57%

Legal liability

57%

Lack of understanding of the technology

49%

Lack of regulation with clear guidelines

47%

Reliance on third parties that supply the AI algorithms

47%

Organizations reputation

46%

Recruitment fairness/algorithm bias

39%

Physical safety

24%

Note: n=500 C-level executives who are involved in decision-making for their organization's adoption, use, and management of AI-enabled tools

Source: Baker McKenzie, "Risky Business: Identifying Blind Spots in Corporate Oversight of Artificial Intelligence" conducted by Coleman Parkes, March 30, 2022

