

## Quantum Tech Delivers First Fiber Optic FPV Drone to Indian Army



In a significant boost to India's indigenous defense capabilities, Pune-based company Quantum Tech has successfully delivered its first fiber optic First-Person View (FPV) drone to the Indian Army. This development represents a major step forward in tactical drone technology for ground forces, addressing a key vulnerability of conventional drones that rely on radio-frequency communications. The new drone is designed to provide secure, jam-proof, and real-time intelligence for infantry units operating in contested environments.

Unlike traditional drones that can be easily disrupted by electronic warfare systems, the Quantum Tech drone uses a fiber optic cable to transmit control commands and high-quality video feeds. This physical link ensures that the drone's communication is impervious to jamming and other forms of electronic interference. The secure connection allows for uninterrupted operation, providing frontline soldiers with clear, real-time situational awareness and precision targeting capabilities, even in areas where radio signals are compromised.

The drone's design emphasizes its tactical utility for infantry units. It is compact and portable, making it suitable for deployment at the platoon and company levels. The enhanced operational range enabled by the fiber optic link opens up new possibilities for deep reconnaissance and long-range surveillance, extending the reach of ground forces beyond what is possible with standard FPV drones. This technology is particularly valuable in challenging terrains, such as those found along India's borders, where electronic interference and geographical obstacles can hinder communication.

The delivery of this drone aligns with India's broader push toward self-reliance in defense technology, encapsulated in the "Atmanirbhar Bharat" (Self-Reliant India) initiative. By

developing and manufacturing such advanced systems domestically, India aims to reduce its dependency on foreign suppliers and build a robust, homegrown defense industrial base. The successful delivery by Quantum Tech lays the groundwork for the wider integration of fiber optic FPV drones into the Indian military, promising to transform infantry operations by providing a potent combination of real-time intelligence, jamming resistance, and tactical versatility.