

# CHINA

Weekly Report 17<sup>th</sup> -25<sup>th</sup> May, 2025



- Wind Tunnel Breakthrough – Guangzhou, Nansha, China tested its largest low-altitude aircraft wind tunnel, enhancing R&D for drones and low-flying aircraft. It could support PLA's tactical UAV design for mountainous and border warfare.



- Quantum-Secured Communication – Beijing to Hefei, launched world's first QKD + PQC encrypted communication system; enabled a secure 1,000 km phone call. Major leap in quantum-era military-grade communications.
- Anti-AI Warfare Doctrine PLA exploring ways to disrupt enemy AI systems via data poisoning, noise generation, and logic deception. Theoretical now, but reflects future battlefield intentions (esp. vis-à-vis India's AI-enabled ISR).
- JY-27V Radar Unveiled Hefei Radar Expo, New metre-wave radar system to track F-22s, F-35s; improved stealth detection via massive AESA system. Likely to be deployed in Tibet, Xinjiang for India-facing early warning net.
- China is preparing to launch its heavyweight drone carrier, Jiu Tian, on its first mission by the end of June, signalling a major step in advancing unmanned aerial warfare capabilities. This jet-powered UAV boasts a 7,000 km range, a ceiling of 15,000 meters, and can carry up to 6 tonnes of munitions and smaller drones, including up to 100 loitering or kamikaze UAVs. Designed for swarm tactics and equipped for reconnaissance, electronic warfare, and strike missions.
- Tianwen-2 Asteroid Mission – launch by May-End, Xichang, Aims to retrieve samples from asteroid 2016HO3 and comet 311P. Reinforces China's deep space capabilities.
- ZQ-2E Rocket Launch, Dual-cryogenic rocket lifted 6 satellites; boosts commercial + military launch reliability.
- BeiDou Navigation Surges, \$79.9B industry output; 288 million devices in use; >129K patent filings. Strengthens military-grade positioning and civil-military integration.
- Radiation-Detection Robot Dog – Foshan, Guangdong, deployed at ports for hazardous inspections; supports customs, anti-smuggling ops.



- Bionic Fish Patrol – Yangtze River, AI-powered robotic fish patrols 30 monitoring stations; collects 50+ TB of eco-surveillance data. Potential dual-use in stealth underwater observation.
- China-Thailand Military Ties Deepen – Beijing Meeting (23 May) Agreed on expanded joint drills, arms procurement (esp. submarines). Reinforces China's military foothold in Southeast Asia.
- PLA Helicopter Confrontations – East China Sea (10-day span), 11 close-range incidents (as close as 10m) with likely US aircraft. Reflects PLA assertiveness; simplifications for LAC helicopter standoff patterns.



- U.S. B-52H Named Top Threat by PLA Study B-52H seen as highest nuclear risk due to payload and upgrades above stealth aircraft. Urges China to boost radar, electronic warfare, and missile defense systems.