

## MKU Becomes a Name to Watch in Military-Grade Electro-Optics

As modern conflicts increasingly shift toward around-the-clock operations, the ability to see, identify, and engage threats in challenging environments has become a decisive battlefield advantage. Night dominance is now a fundamental operational requirement for soldiers, special forces, vehicle-mounted crews, aviators, and security forces alike.

Against this backdrop, [MKU Limited](#) has built a comprehensive electro-optics portfolio through its dedicated optronics division, Netro Optronics. The company provides advanced multi-sensor electro-optic solutions for situational awareness, surveillance, reconnaissance, and target acquisition across soldier and platform domains. Its portfolio spans night vision, thermal, fusion, day-channel systems, driver night sights, Vision-360 see-through armour, and bespoke EO integrations powered by MKU's indigenous thermal core technology.

### Building a Complete Optronics System



Under the Netro brand, MKU offers solutions covering night enablement and situational awareness systems for armoured vehicles, thermal weapon sights and target acquisition

systems, aviation-focused night vision solutions, night upgrade kits for weapons and air defence systems, and night vision systems for infantry and special operations forces.

These solutions enable operators to maintain effectiveness across urban operations, dense forests, deserts, mountains, maritime zones, and extreme winter conditions.

MKU places a strong emphasis on platform optronics, where persistent surveillance and 360-degree situational awareness are redefining armoured warfare. The TD 5100 Driver Night Sight for AFVs and APCs enables safe manoeuvring in zero-light conditions, while the TDP 5200 Vision 360 See-Through Armour system provides a stitched mixed-reality view through a head-mounted display, allowing crews to navigate and detect threats without exposure.

Its soldier optronics suite extends these capabilities to the tactical edge. Thermal weapon sights such as the TW 4006, TW 4000 and TW 4100 enable rapid target acquisition across lighting conditions and engagement ranges. The MW 5000 Sighting System enhances one-shot hit accuracy and target visibility, while the NB 3300 dual-tube binocular and NM 3200 ultra-compact monocular provide mobility and clarity during low-light operations.

Together, these systems form a unified combat vision ecosystem, connecting platforms, weapons, and soldiers into a seamless operational network. At [Eurosatory 2026](#), MKU is demonstrating how this integration is turning darkness into operational dominance, enabling forces to detect earlier, decide faster, and respond with precision.

### **Backed by One of India's Largest Electro-Optics Contracts**

Military electro-optics are only as good as their performance in real-world conditions. Armed forces require systems capable of functioning reliably in extreme cold, desert heat, high humidity, dust-laden environments, heavy rainfall, and rugged battlefield conditions.

MKU's electro-optical products undergo extensive environmental qualification, performance validation, and field trials before entering service. The Netro NW 3000, for example, underwent rigorous evaluation and extensive field testing across varied operational environments before being selected by the Indian Army.

The company's growing prominence was reinforced in 2025 when it secured one of the largest electro-optics procurements ever placed by the Indian Army, winning a contract worth ₹660 crore (around €70 million) for the supply of 29,000+ Netro NW 3000 Night Vision Weapon Sights. Conducted under India's Indigenously Designed, Developed and Manufactured (IDDM) category, the procurement represents a major endorsement of the company's technological maturity.

MKU's electro-optics capabilities have gained traction across both domestic and international markets. The company has signed a contract with the Indian Army for 5,000 Thermal Weapon Sights and has already delivered over 1,000 Thermal Weapon Sights to the Moroccan Army, underscoring the operational relevance and growing acceptance of its night-fighting solutions.

### **Aksion: The Thermal Core That Changes the Equation**

At the core of MKU's optronics journey is sustained investment in research and development. The company has built multidisciplinary engineering teams specialising in thermal imaging, sensor technologies, image processing, embedded systems, optics, electronics, mechanical design, and battlefield integration. This approach enables MKU to control key aspects of the development cycle, from concept and design through prototyping, validation, and production.

Perhaps the most significant milestone in MKU's electro-optics evolution is the development of its own thermal imaging core, Netro Aksion. Thermal cores are often described as the "engine" of thermal imaging systems, determining image quality, detection range, processing capability, and overall system performance.

Built around a 12-micron sensor architecture, Aksion is engineered to deliver superior image clarity, advanced image processing, faster target detection, and low-latency performance under demanding mission conditions. Beyond technical performance, indigenous thermal core technology strengthens intellectual property ownership, improves supply-chain security, and enables future product development across a wide range of defence and security platforms.

As armed forces increasingly seek technology sovereignty alongside operational superiority, MKU's expanding electro-optics portfolio, indigenous innovation capabilities, and large-scale deployment experience are positioning the company as a name to watch in the global military electro-optics sector.

### **ABOUT MKU:**

MKU Limited is a global defence technology company on a mission to Empower Heroes in the line of duty through smart, future-ready defence solutions that deliver confidence.

Headquartered in India, with manufacturing and operational infrastructure across India, the UAE, and a European Centre of Excellence in Germany, MKU is trusted by 230+ armed forces across more than 100 countries.

MKU develops and manufactures certified smart defence solutions across soldier systems, platform survivability and electro-optics, empowering over 3 million personnel and armouring more than 3,000 platforms worldwide.

**FOLLOW MKU ON:**

Website: <https://www.mku.com/>

LinkedIn: MKU

Twitter: @MKUofficial

Facebook: @MKU.LTD

Instagram: @mku\_official

YouTube: MKU Official