

## PART NO.: CK-TR7373-50M



### CK-TR7373-50M IP68 50mm 1200DPI Resin Industrial Laser Trackball Module

The CK-TR7373-50M is a high-performance, fully sealed industrial resin laser trackball module built for extreme harsh operational environments.

Featuring superior IP68 full waterproof and dustproof rating and 100% humidity resistance, this rugged panel-mount trackball adopts premium industrial resin material with an all-round sealed structure, delivering exceptional endurance against dust, dirt, standing water, ice, industrial oil and various corrosive contaminants. Equipped with reserved mounting holes for firm embedded installation, it serves as a lightweight, high-precision and ultra-durable pointing solution for industrial consoles, marine simulation systems, military and heavy-duty industrial equipment.

Designed with a standard 72mm × 72mm compact body and an ultra-light gross weight of only 0.2KG, this resin trackball module is lighter and more flexible than traditional metal trackball units, greatly reducing equipment load while ensuring structural stability. The professional hole-position mounting structure enables stable embedded installation, effectively resisting loosening and displacement during long-term vibration and high-frequency operation. Its fully enclosed sealing structure meets strict IP68 top-tier industrial protection standards, supporting long-term underwater immersion, high-humidity and wet environment operation that ordinary industrial trackballs cannot withstand.

Equipped with a large-size 50mm industrial laser trackball with 1200DPI high resolution, the device adopts advanced Rate Sensitive Dynamic Resolution technology. It intelligently accelerates cursor movement for fast full-screen traversal during quick operation, while retaining ultra-precise single-pixel positioning for delicate fine-tuning, perfectly balancing operational speed and control accuracy. Boasting an ultra-long service life of over 10 million operating cycles, the resin trackball maintains smooth, jitter-free and stable performance after years of intensive continuous use. Integrated with a complete 3-button circuit system supporting left-click, right-click and scroll functions, it realizes full-featured independent mouse control without additional peripherals, simplifying equipment layout and improving operational efficiency.

Adopting high-quality industrial PCB design, the trackball module features stable circuit operation and reliable anti-interference performance. It supports dual USB and PS/2 plug-and-play interfaces, requiring no complex debugging or programming, enabling fast on-site deployment and seamless connection with various industrial terminals. With a low 50mA rated current and compliance with EN55022(B) EMC emission standards, it ensures low power consumption and stable electromagnetic compatibility, avoiding signal interference with precision industrial control equipment.

Engineered with excellent environmental adaptability and industrial reliability, the CK-TR7373-50M operates stably in a wide temperature range of -20°C to +60°C and supports safe storage at -30°C to +70°C. It has passed rigorous IEC 60512-6 authoritative reliability tests, including 96-hour salt mist resistance, 21-day damp heat endurance at 40°C and 10-day dry heat



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resistance at 85°C. With 100% full humidity resistance, it runs steadily in long-term humid, corrosive, dusty and oily harsh working conditions without performance degradation or malfunction.

This industrial resin trackball module delivers industry-leading long-term operational stability and cost performance. It features an average overall service life of more than 6 years, with core reliability indicators of MTBF over 50,000 hours and MTTR less than 30 minutes, effectively reducing equipment failure rates and daily maintenance costs. The wear-resistant resin trackball structure avoids frequent replacement, significantly lowering long-term operational costs for industrial, marine and military equipment.

Fully compatible with almost all mainstream operating systems, including full Windows versions, Linux, Unix, Mac OSX, Vxworks and Android, the trackball module adapts seamlessly to diverse professional control equipment. Certified with RoHS, CE and FCC international authoritative certifications, the product complies with global safety and environmental protection standards, backed by a 1-year limited warranty for stable and durable long-term operation.

Versatile for multi-industry deployment, the CK-TR7373-50M is widely applied in industrial control consoles, marine console simulation systems, ship cabins, fleet equipment, military and aviation systems, oil and gas exploitation, clean rooms, medical operating rooms, pharmaceutical factories, dirty manufacturing workshops, warehouses and public safety facilities, being the ideal lightweight high-protection pointing solution for ultra-harsh industrial environments.

### Core Product Advantages

- IP68 Top-Tier Industrial Protection: Fully sealed structure achieves complete waterproof, dustproof and 100% humidity resistance, suitable for underwater and extreme harsh working scenarios
- Premium 50mm Resin Laser Trackball: Large-size resin trackball delivers smoother operation and better flexibility than metal trackballs, with 1200DPI high precision
- Ultra-Light Compact Design: 72×72mm standard size & 0.2KG super-light weight reduces equipment load for flexible embedded installation
- Dynamic High-Precision Positioning: Rate-sensitive resolution technology balances fast cursor movement and accurate single-pixel fine tuning
- Full 3-Button Integrated Function: Built-in left/right click and scroll functions realize complete mouse control without extra peripherals
- Million-Level Super Durability: 10-million-cycle trackball lifespan and 6+ years long service life for continuous high-intensity operation
- Excellent Environmental Resistance: Passed salt mist, damp heat and dry heat tests, adaptable to corrosive, wet and high-temperature complex environments

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-Plug-and-Play & Wide Compatibility: USB/PS2 interface optional, full OS support, low power consumption and strong anti-interference capability

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