

PART NO.: CK-KB17IN1-50TB



CK-KB17IN1-50TB IP65 316L Stainless Steel Marine Keyboard with 50mm Mechanical Trackball

The CK-KB17IN1-50TB is a heavy-duty panel-mount rugged keyboard tailored for extreme marine, military, aviation and corrosive industrial environments. Built

with high-grade 316L stainless steel featuring black electroplated finishing and certified with industrial IP65 waterproof and dustproof rating, this 17-key integrated input device perfectly overcomes the corrosion limitations of standard 304 stainless steel. It delivers exceptional all-round resistance against salt mist, corrosive spray, chemical liquids, disinfectants, industrial oil, low temperatures, dust, dirt and ice, ensuring reliable operation in the harshest marine and heavy industrial scenarios. Customizable LED backlight is available to support efficient operation in dim and dark working environments.

Equipped with a robust 1.5mm thick stainless steel front mounting panel with pre-drilled fixing holes, the keyboard enables firm, stable and anti-loosening embedded installation. It effectively withstands long-term physical impact, persistent equipment vibration and severe environmental erosion during prolonged marine navigation and high-intensity industrial operation. Adopting a one-piece full internal waterproof rubber sealing structure, the unit achieves complete internal isolation, fully blocking water ingress and fine dust penetration. With 100% full humidity resistance, it maintains consistent operational stability in long-term humid, saline and corrosive working conditions without malfunction or premature aging.

This all-in-one industrial keyboard adopts high-reliability carbon connecting key switches, featuring an ultra-light $0.6N \pm 0.1N$ actuation force and 2.0mm ergonomic key travel, delivering distinct, comfortable tactile feedback for fatigue-free long-hour intensive operation. All keys are crafted with professional laser engraving technology, which effectively resists daily friction, abrasion and chemical erosion, preventing character rub-off and ensuring lifelong clear key visibility. Integrated with a premium 50.0mm silent mechanical trackball with bearing rolling technology and three functional mouse buttons supporting left-click, right-click and scroll control, it provides ultra-smooth, noiseless and precise cursor movement, greatly optimizing operational efficiency for marine consoles, fleet systems and industrial control platforms.

The CK-KB17IN1-50TB supports flexible personalized customization to meet global deployment and diversified application demands. It can be customized with multi-language key layouts to adapt to overseas equipment standards and personalized terminal requirements, while optional LED backlight upgrades enhance visibility for low-light and dark-site operations. Equipped with universal plug-and-play USB and PS/2 dual interfaces, the keyboard requires no complex programming or debugging, enabling fast, convenient and seamless on-site installation and system integration for marine, military and industrial control equipment.

Engineered for superior universal environmental adaptability, the keyboard operates stably across a wide temperature range of -20°C to $+60^{\circ}\text{C}$, with storage temperatures ranging from -30°C to $+70^{\circ}\text{C}$. It has passed rigorous IEC 60512-6 industrial reliability tests, including 96-hour salt mist resistance, 21-day damp heat endurance at 40°C and 10-day dry heat resistance at 85°C . Thanks to its upgraded 316L electroplated anti-corrosion structure, it maintains stable performance in saline, corrosive, low-temperature and high-humidity extreme environments, far outperforming ordinary industrial keyboards.



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Built for ultra-long-term heavy-duty operation, the carbon key switches support up to 5 million keystroke operations, while the core 50mm mechanical trackball boasts an ultra-long service life of over 10 million cycles, with an average overall product lifespan of more than 6 years. It achieves outstanding industrial reliability with MTBF over 50,000 hours and MTTR less than 30 minutes, significantly reducing equipment downtime and daily maintenance costs. Featuring a standard front panel dimension of 373.0mm × 132.0mm and a gross weight of approximately 2.0KG, it fits perfectly with standard embedded installation for marine and industrial consoles. Operating at 5V DC low voltage with a steady 80mA rated current and compliant with EN55022(B) EMC emission standards, it ensures stable electromagnetic compatibility and safe long-term continuous operation.

Fully compatible with all mainstream operating systems including Windows full versions, Linux, Unix, Mac OSX, Vxworks and Android, the keyboard delivers universal system adaptability. It holds CE, FCC and RoHS international authoritative certifications, complying with global safety and environmental protection standards, and is backed by a 1-year limited warranty for stable long-term marine, military and industrial deployment.

Versatile for multi-industry harsh applications, the CK-KB17IN1-50TB is widely applied in marine simulation consoles, ship cabins, fleet equipment, military facilities, aviation systems, industrial control consoles, clean rooms, operating rooms, industrial automation systems, pharmaceutical workshops, oil and gas facilities, heavy-duty manufacturing workshops, warehouses and public safety equipment. It is a premium 17-key 316L stainless steel anti-corrosion keyboard with silent mechanical trackball, specially optimized for extreme marine and corrosive industrial environments.

Core Product Advantages

- Upgraded 316L Black Electroplated Steel: Premium anti-corrosion 316L stainless steel structure effectively resists salt mist and chemical corrosion, solving the durability defects of ordinary 304 steel in marine environments
- IP65 Industrial-Grade Protection: One-piece full rubber waterproof sealing structure delivers reliable waterproof, dustproof and 100% humidity-resistant performance for harsh industrial and marine scenarios
- 50mm Silent Mechanical Trackball: High-precision bearing rolling trackball achieves noiseless, smooth operation with 10-million-cycle ultra-long service life and complete mouse function support
- Professional 17-Key Functional Layout: Optimized key layout meets complex operational demands of marine simulation, fleet control and professional industrial console systems
- High-Quality Carbon Key Switches: Stable 0.6N actuation force and 2.0mm key travel provide balanced tactile feedback for fatigue-free long-term intensive operation
- Permanent Wear-Resistant Laser Engraving: Advanced laser key engraving resists abrasion and chemical erosion, ensuring lifelong clear and legible key characters
- Flexible Customization Capabilities: Supports multi-language layout conversion and optional LED backlight to adapt to global deployment and low-light working environments

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-Dual Plug-and-Play Interfaces: Compatible with USB and PS/2 interfaces for fast, tool-free installation and seamless system integration

-Verified Harsh Environment Durability: Passed professional salt mist, damp heat and dry heat tests, ensuring stable operation in extreme corrosive, low-temperature and humid conditions

-High Reliability & Cost-Effective: Dual long lifespan design, high MTBF and low power consumption minimize long-term operational and maintenance costs

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