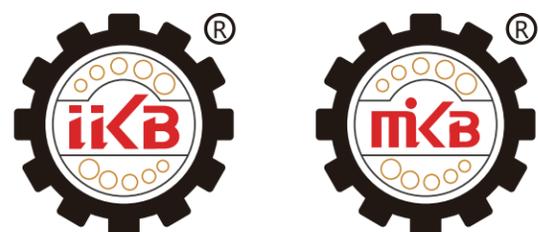


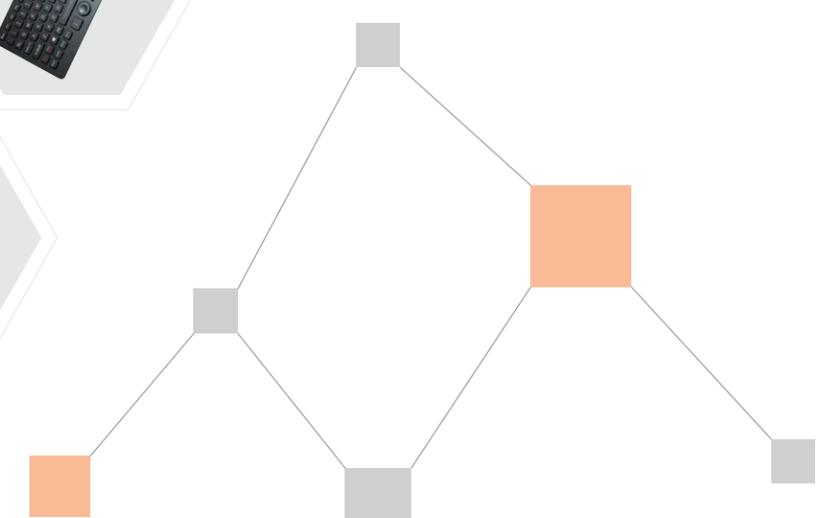
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# RUGGED POINTING DEVICE CATALOGUE

Touchpad | Trackball | Mouse | FSR | Joystick



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## ★ Feature and Reliability ★

EMC SPEC	MIL-STD-461G (EMC, EMI, EMS, ESD)
01	CE101 25Hz - 10kHz Conducted Emissions, Audio Frequency Currents, Power leads
02	CE102 10kHz -10MHz Conducted Emissions, Radio Frequency Potentials, Power leads
03	CS101 25Hz - 150kHz Conducted Susceptibility, Power Leads
04	CS106 Conducted Susceptibility, Transients, Power Leads
05	CS112 Electrostatic Discharge Susceptibility
06	CS114 4kHz -400MHz Conducted Susceptibility, Bulk Cable injection
07	CS115 Conducted Susceptibility, Bulk Cable injection, Impulse Excitation
08	CS116 10kHz - 100MHz Conducted Susceptibility, Damped Sinusoidal Transients, Cables and Power Leads
09	RE101 25Hz -100kHz Radiated Emissions, Magnetic Field
1 0	RE102 10kHz - 18GHz Radiated Emissions, Electric Field
1 1	RS101 25HZ - 100kHz Radiated Susceptibility, Magnetic Field
1 2	RS103 10kHz - 40GHz Radiated Susceptibility, Electric Field

Environmental Adaptability	MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, fungus etc.)
01	Low Pressure (57kPa - 106kPa)
02	High Temperature (+75℃)
03	Low Temperature (-40℃)
04	Temperature Shock (-55℃ to +75℃)
05	Rain Test (Wind velocity: no less than 18m/s, test duration: 3h)
06	Humidity (-30℃ to +60℃, 95%RH)
07	Fungus (Test period: 28 days (672h))
08	Salt Spray (Test period: 96h, IEC60512-6)
09	Low Frequency Vibration
1 0	Dust Test (10.6g/m <sup>3</sup> ±7g/m <sup>3</sup> )
1 1	Vibration (Frequency: 0-2000Hz, Displacement: 1mm, Acceleration:70m/s <sup>2</sup> )
1 2	Shock (40g, 11ms)
1 3	Drop Test (Drop height: 122cm)

### Designed to meet the critical military standards in these 10 aspects:

Reliability, Safety, Maintainability, Testability, Supportability, Environmental adaptability, Stability, Compatibility, Consistency, And continuity.

## Feature



K-TEK-TP65-DWT-25KV is a high performance humanize touchpad module, especially designed for ruggedized laptops, notebooks etc. Utilizing capacitive sensing technology to provide accurate cursor motion at X, Y directions through fingers. Complete mouse function is achieved via IIC/PS2 interface and USB interface with external electronic controller board, with left&right mouse buttons for option. **MIL-STD-461G-EMC-EMI-EMS-ESD optional**, and meet with **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-TP65-DWT-25KV

## Mechanical Data

Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.16KG
Dimension:	65.0mm x 49.0mm( L x W )

## Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	IIC
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

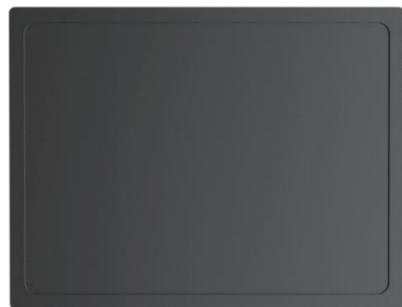
## Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20℃ ~ +55℃
Storage Temperature:	-30℃ ~ +70℃
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

K-TEK-TP6549-USB+2KEY is a high performance humanize designed touchpad module especially for Laptops, Notebooks and EPC products. Utilizing capacitive sensing technology to provide accurate cursor motion at X, Y directions through fingers. Function as complete computer mouse via USB interface. Plug-and-play. With multi-touch functionality optional in difference with conventional mouse. USB interface, with 2 external fully waterproof mouse buttons with micro key switch technology for comfortable tactile feeling. Meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)



Part Number: K-TEK-TP6549-USB+2KEY

### Mechanical Data

Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.20KG
Dimension:	65.0mm x 49.0mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +55°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.

### Feature

K-TEK-TP65-DML-25KV+2KEY is a high performance humanize designed capacitive touchpad module especially for Laptops, Notebooks and EPC products. Utilizing capacitive sensing technology to provide accurate cursor motion at X, Y directions through fingers, which adopts IIC communication protocol (PS2 protocol optional; it can also be connected with an external adapter board to convert to USB protocol). With 2 fully sealed waterproof and oilproof mouse buttons with micro key switch technology and plastic keycap for comfortable tactile feeling. Built to meet MIL-STD-810H (wide temperature, shock, salt mist, vibration, fungus, humidity etc.) and MIL-STD-461G (EMC, EMI, EMS, ESD) optional, which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.



Part Number: K-TEK-TP65-DML-25KV+2KEY

### Mechanical Data

Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.20KG
Dimension:	66.0mm x 50.0mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	IIC
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +60°C
Storage Temperature:	-45°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature



K-TEK-TP80-DML-25KV+2KEY is a high performance humanize designed capacitive touchpad module especially for Laptops, Notebooks and EPC products. Utilizing capacitive sensing technology to provide accurate cursor motion at X, Y directions through fingers, which adopts IIC communication protocol (PS2 protocol optional; it can also be connected with an external adapter board to convert to USB protocol). With 2 fully sealed waterproof and oilproof mouse buttons with micro key switch technology and plastic keycap for comfortable tactile feeling. Built to meet **MIL-STD-810H** (wide temperature, shock, salt mist, vibration, fungus, humidity etc.) and **MIL-STD-461G (EMC, EMI, EMS, ESD) optional**, which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-TP80-DML-25KV+2KEY

### Mechanical Data

Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.20KG
Dimension:	81.0mm x 50.0mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	IIC
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +60°C
Storage Temperature:	-45°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.

### Feature



K-TEK-TP115-DML-25KV+2KEY is a high performance humanize designed capacitive touchpad module especially for Laptops, Notebooks and EPC products. Utilizing capacitive sensing technology to provide accurate cursor motion at X, Y directions through fingers, which adopts IIC communication protocol (PS2 protocol optional; it can also be connected with an external adapter board to convert to USB protocol). With 2 fully sealed waterproof and oilproof mouse buttons with micro key switch technology and plastic keycap for comfortable tactile feeling. Built to meet **MIL-STD-810H** (wide temperature, shock, salt mist, vibration, fungus, humidity etc.) and **MIL-STD-461G (EMC, EMI, EMS, ESD) optional**, which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-TP115-DML-25KV+2KEY

### Mechanical Data

Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.20KG
Dimension:	116.0mm x 71.0mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	IIC
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +60°C
Storage Temperature:	-45°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic rated waterproof & rugged Force Sensing Resistor pointing device integrated in one-piece compact seamless silicone cover for fast and accurate cursor position, with 3 mouse buttons for left and right clicking, middle wheel function, and with mounting holes along for easy mounting & sealing, which is good for much oil, water, sand etc application or gloves are needed when operation. Designed to meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), and MIL-STD-461G -EMC-EMI-EMS-ESD optional, as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M76HP-3

### Mechanical Data

Key Lifespan:	>5 million actuations
Gross Weight:	≈0.10KG
Dimension:	76.0mm x 32.6mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic rated waterproof & rugged Force Sensing Resistor pointing device integrated in one-piece compact seamless silicone cover for fast and accurate cursor position, with 2 mouse buttons for left and right clicking, and with mounting holes along for easy mounting & sealing, which is good for much oil, water, sand etc application or gloves are needed when operation. USB interface. Designed to meet with MIL-STD-461G-EMC-EMI-EMS-ESD & MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M76-DHP-EMC-DWT-2-H5.5

### Mechanical Data

Key Lifespan:	>5 million actuations
Gross Weight:	≈0.10KG
Dimension:	78.5mm x 35.1mm x 12.3mm( L x W x H )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic rated waterproof & rugged Force Sensing Resistor pointing device integrated in one-piece compact seamless silicone cover for fast and accurate cursor position, with 2 mouse buttons for left and right clicking, and with mounting holes along for easy mounting & sealing, which is good for much oil, water, sand etc application or gloves are needed when operation. Designed to meet with MIL-STD-461G-EMC-EMI-EMS-ESD & MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M76-DHP-EMC-DWT

### Mechanical Data

Key Lifespan:	>5 million actuations
Gross Weight:	≈0.10KG
Dimension:	78.5mm x 35.2mm x 8.6mm( L x W x H )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP67 dynamic rated waterproof & dustproof rugged Force Sensing Resistor pointing device integrated in one-piece compact seamless silicone cover for fast and accurate cursor position, with 3 mouse buttons for left and right clicking as well as middle button, rear panel mount solution with mounting holes along the edge for easy mounting & sealing, which is good for much oil, water, sand etc. application or gloves are needed when operation. USB interface. Designed to meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, fungus etc.), as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity, MIL-STD-461G (EMC, EMI, EMS, ESD)optional.

Part Number: K-TEK-M77-DHP-ML

### Mechanical Data

Key Lifespan:	>5 million actuations
Gross Weight:	≈0.20KG
Dimension:	77.00mm x 77.00mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP67
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +60°C
Storage Temperature:	-45°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M73TP-ML

### Feature

P65 static sealed Touchpad with 2 mouse buttons under touchpad for left and right clicking with OMRON key switch technology with short stroke of 0.30±0.05 mm, the electronics controller module shielded and protected with one ultra thin aluminum backplate, with mounting holes along with the rear ABS plastic plate for rear panel mounting. Military level with wide temperature of -40°C to +75°C, MIL-STD-461G-EMC-EMC-EMS-ESD optional and designed to meet with MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

### Mechanical Data

Key Lifespan:	>1 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.20KG
Dimension:	73.0mm x 76.0mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M82TP-DWT-151B-25KV-DWP

### Feature

IP65 dynamic sealed and ruggedized durable military touchpad with 400 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, with two high quality fully sealed Waterproof resin mouse buttons, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, stainless steel front panel with threaded bolts for top panel mounting solution. Built to meet MIL-STD-461G (EMC, EMI, EMS, ESD) and MIL-STD-810H (wide temperature, shock, salt mist, vibration, fungus, humidity etc.), Which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

### Mechanical Data

Key Lifespan:	>5 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.60KG
Dimension:	82.0mm x 80.0mm (L x W)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M90TP-NV-151B-SW

### Feature

IP67 dynamic sealed and ruggedized rubber military touchpad with 400DPI resolutions for fast and accurate cursor position, with 2 micro switch mouse buttons with plastic keycaps, with durable coating & anti-microbial keyboard surface withstand to most chemicals and liquids under harsh environment, rear panel mounting solution with mounting holes, USB interface. Military level with strong anti-interference and low radiation ability, designed to meet MIL-STD-461G (EMC, EMI, EMS, ESD) and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, salt mist, dust, fungus, solar radiation etc.) as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

### Mechanical Data

Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.30KG
Dimension:	90.0mm x 90.0mm (front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP67
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M90TP-ML

### Feature

IP65 dynamic Sealed and Ruggedized Rubber Touchpad for fast and accurate cursor position, with 2 raised mouse buttons under touchpad, with mounting holes along the rear panel mounting plate for rear panel mounting. Military level with wide temperature of -40°C to +75°C. MIL-STD-461G-EMC-EMI-EMS-ESD optional, designed to meet with MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

### Mechanical Data

Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.40KG
Dimension:	90.0mm x 90.0mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M90TP-DHP-NV-151B

### Feature

IP65 dynamic sealed and ruggedized silicone rubber military touchpad with a Force Sensing Resistor pointing device for fast and accurate cursor position, with military level PCB with carbon-on-gold key switch technology with 1.20mm key stroke for fast and accurate data input, 2 mouse buttons for right & left clicking and scrolling up and down, with mounting holes for rear panel mounting. Military level with strong anti-interference and low radiation ability. Designed to meet with MIL-STD-461G-EMC-EMI-EMS-ESD and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

### Mechanical Data

Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.40KG
Dimension:	90.0mm x 90.0mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M98TP-DWT-151B-25KV-DWP

### Feature

IP65 dynamic sealed and stainless steel ruggedized tough touchpad with two high quality fully sealed resin mouse buttons, stainless steel front panel with threaded bolts for top panel mounting solution. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water,oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion. Working temperature(-40 C to +75 C), meet MIL-STD-461G (EMC, EMI,EMS, ESD) and MIL-STD-810H (wide temperature, shock, salt mist, vibration, fungus, humidity etc.), Which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

### Mechanical Data

Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.50KG
Dimension:	98.0mm x 88.0mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +80°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic waterproof Sealed and ruggedized tough touchpad for fast and accurate cursor position, with a Force Sensing Resistor pointing device under the touchpad, 2 mouse buttons designed for right & left clicking, with military grade PCB with carbon-on-gold key switch technology with 1.20mm key stroke. The electronics controller module is shielded and protected by stainless steel housing, high quality durable black titanium electroplated on the top stainless steel plate, with threaded bolts for top panel mounting solution and 4 x R5 angles to be smooth and scratch proof. Military level, designed to meet with MIL-STD-461G-EMC-EMI-EMS-ESD & MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.), as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M110TP-DHP-NV-151B-DWP

### Mechanical Data

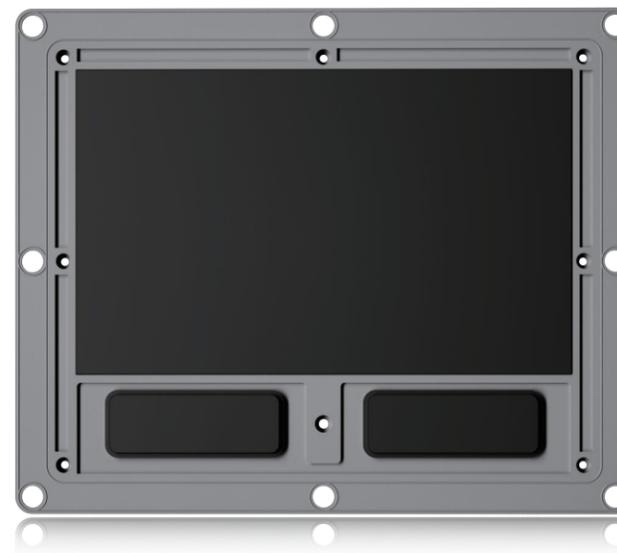
Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.60KG
Dimension:	110.0mm x 120.0mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	Aviation plug, USB available
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic sealed & ruggedized military high performance humanize capacitive touchpad. Utilizing capacitive sensing technology to provide accurate cursor motion at X, Y directions through fingers, which adopts IIC communication protocol (PS2 protocol optional; it can also be connected with an external adapter board to convert to USB protocol). With 2 fully sealed waterproof and oilproof mouse buttons with micro key switch technology and plastic keycap for comfortable tactile feeling. Meet MIL-STD-810H (wide temperature, shock, salt mist, vibration, fungus, humidity etc.) and MIL-STD-461G (EMC, EMI, EMS, ESD), which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M125TP-DML-25KV-151B-DWP-OEM

### Mechanical Data

Key Lifespan:	>1 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.20KG
Dimension:	127.4mm x 100.4mm (L x W)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	IIC
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic sealed & ruggedized military high performance humanize capacitive touchpad. Utilizing capacitive sensing technology to provide accurate cursor motion at X, Y directions through fingers, which adopts IIC communication protocol (PS2 protocol optional; it can also be connected with an external adapter board to convert to USB protocol). With 2 fully sealed waterproof and oilproof mouse buttons with micro key switch technology and plastic keycap for comfortable tactile feeling. **Meet MIL-STD-810H** (wide temperature, shock, salt mist, vibration, fungus, humidity etc.) and **MIL-STD-461G (EMC, EMI, EMS, ESD) optional**, which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M125TP-DML-25KV-DWP-OEM

### Mechanical Data

Key Lifespan:	>1 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.20KG
Dimension:	127.4mm x 100.4mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	IIC
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic sealed & ruggedized military high performance humanize capacitive touchpad. Utilizing capacitive sensing technology to provide accurate cursor motion at X, Y directions through fingers, which adopts IIC communication protocol (PS2 protocol optional; it can also be connected with an external adapter board to convert to USB protocol). With 2 fully sealed waterproof and oilproof mouse buttons with micro key switch technology and plastic keycap for comfortable tactile feeling. **Meet MIL-STD-810H** (wide temperature, shock, salt mist, vibration, fungus, humidity etc.) and **MIL-STD-461G (EMC, EMI, EMS, ESD)**, which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M127TP-NV-151B-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.20KG
Dimension:	126.6mm x 99.6mm (L x W)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	IIC
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature



IP65 dynamic Sealed and Ruggedized Tough Touchpad for fast and accurate cursor position, with 2 raised IP65 dynamic sealed stainless steel mouse buttons under touchpad, the electronics controller module shielded and protected with stainless steel housing, with mounting holes along the rear panel mounting aluminum plate for rear panel mounting. one complete silicone rubber along the rear stainless steel plate for easy mounting & sealing tightly with cabinet. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-A80TP-DWP

### Mechanical Data

Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.50KG
Dimension:	80.0mm x 80.0mm (front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.

### Feature



IP65 dynamic Sealed and Ruggedized Tough Touchpad for fast and accurate cursor position, with 2 raised IP65 dynamic sealed stainless steel mouse buttons under touchpad, the electronics controller module shielded and protected with stainless steel housing, high quality durable black titanium electroplated on the top stainless steel plate, with rear panel mounting solution. One complete silicone rubber along the rear stainless steel plate for easy mounting & sealing tightly with cabinet. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-A80TP-BT-UT-IL-DWP

### Mechanical Data

Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.50KG
Dimension:	80.0mm x 80.0mm (front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic Sealed and Ruggedized Tough Touchpad for fast and accurate cursor position, with 2 raised IP65 dynamic sealed stainless steel mouse keys under touchpad, the electronics controller module shielded and protected with stainless steel housing, stainless steel top plate with threaded bolts for top panel mounting solution. One complete silicone rubber along the rear stainless steel plate for easy mounting & sealing tightly with cabinet. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-A95TP-DWP

### Mechanical Data

Key Lifespan:	>5 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.50KG
Dimension:	95.0mm x 95.0mm (front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic Sealed and Ruggedized Tough Touchpad for fast and accurate cursor position, with 2 sealed stainless steel metal dome mouse buttons under touchpad, the electronics controller module shielded and protected with stainless steel housing, with mounting holes along the rear panel mounting aluminum plate for rear panel mounting. One complete silicone rubber along the rear stainless steel plate for easy mounting & sealing tightly with cabinet. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B80TP-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.50KG
Dimension:	80.0mm x 80.0mm (front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-B83TP-DWP

### Feature

IP65 dynamic Sealed and Ruggedized Tough Touchpad for fast and accurate cursor position, with 2 raised IP65 dynamic sealed stainless steel mouse buttons under touchpad, the electronics controller module shielded and protected with stainless steel housing, with mounting holes along the rear panel mounting aluminum plate for rear panel mounting. one complete silicone rubber along the rear stainless steel plate for easy mounting & sealing tightly with cabinet. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

### Mechanical Data

Key Lifespan:	>1 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.50KG
Dimension:	83.0mm x 110.0mm (front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-B85TP-DT-DWP

### Feature

IP68 dynamic sealed and stainless steel ruggedized tough touchpad with sealed stainless steel mouse buttons, with movable stand alone desktop version. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

### Mechanical Data

Key Lifespan:	>1 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.80KG
Dimension:	85.0mm x 110.0mm (L x W)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP68
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-B95TP-DWP

### Feature

IP65 dynamic Sealed and Ruggedized Tough Touchpad for fast and accurate cursor position, with 2 flat IP65 dynamic sealed stainless steel mouse buttons under touchpad, the electronics controller module shielded and protected with stainless steel housing, stainless steel top plate with threaded bolts for top panel mounting solution. One complete silicone rubber along the rear stainless steel plate for easy mounting & sealing tightly with cabinet. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water,oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

### Mechanical Data

Key Lifespan:	>1 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.50KG
Dimension:	95.0mm x 90.0mm (front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-B107TP-DWP

### Feature

IP65 dynamic sealed and stainless steel ruggedized tough touchpad with IP65 dynamic sealed stainless steel mouse buttons, with top panel mounting. One complete silicone rubber along the top stainless steel plate for easy mounting & sealing tightly with cabinet. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water,oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

### Mechanical Data

Key Lifespan:	>1 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.60KG
Dimension:	107.0mm x 120.0mm (top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature



IP65 dynamic sealed and stainless steel ruggedized tough touchpad with IP65 dynamic sealed stainless steel mouse buttons, with top panel mounting. One complete silicone rubber along the top stainless steel plate for easy mounting & sealing tightly with cabinet. High quality durable black titanium electroplated on the top stainless steel plate. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B107TP-BT-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.60KG
Dimension:	107.0mm x 120.0mm (top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.

### Feature



IP65 dynamic sealed and stainless steel ruggedized tough touchpad with IP65 dynamic sealed stainless steel mouse buttons, with movable stand alone desktop version or mountable stand along desk top versions with stainless steel housing. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B107TP-DT-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈1.00KG
Dimension:	107.0mm x 110.0mm x 31.3mm (L x W x H)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature



IP65 dynamic sealed and ruggedized stainless steel tough touchpad with 2 backlight mouse buttons, with top panel mounting. One complete silicone rubber along the top stainless steel plate for easy mounting & sealing tightly with cabinet. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B107TP-BL-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.60KG
Dimension:	107.0mm x 120.0mm (top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.

### Feature



IP65 dynamic waterproof Sealed and Ruggedized Tough Touchpad for fast and accurate cursor position, with totally sealed stainless steel mouse button under touchpad, the electronics controller module shielded and protected with stainless steel housing, high quality durable black titanium electroplated on the top stainless steel plate, stainless steel plate with threaded bolts for top panel mounting solution. One complete silicone rubber along the top stainless steel plate for easy mounting & sealing tightly with cabinet. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B130TP-BT-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.50KG
Dimension:	130.0mm x 105.0mm x 17.5mm (L x W x H)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic sealed and stainless steel ruggedized tough touchpad with IP65 dynamic sealed stainless steel mouse buttons, with top panel mounting. One complete silicone rubber along the top stainless steel plate for easy mounting & sealing tightly with cabinet. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.



Part Number: K-TEK-B140TP-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.80KG
Dimension:	140.0mm x 145.0mm (top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic rated Vandal proof Stainless Steel industrial Touchpad with IP65 dynamic sealed & ruggedized tough touchpad for fast and accurate cursor position, with integrated numeric keypad, industrial PCB with gold-on-gold key switch technology with short stroke 0.45mm with extremely good tactile feeling for stable and accurate input without any noise, 2 mouse buttons designed for right & left clicking, stainless steel back plate with mounting holes for rear panel mounting solution. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, direct drain pipe is optional, no rust risk and anti-salt spray corrosion.



Part Number: K-TEK-B190TP-KP-BL-IL-DWP

### Mechanical Data

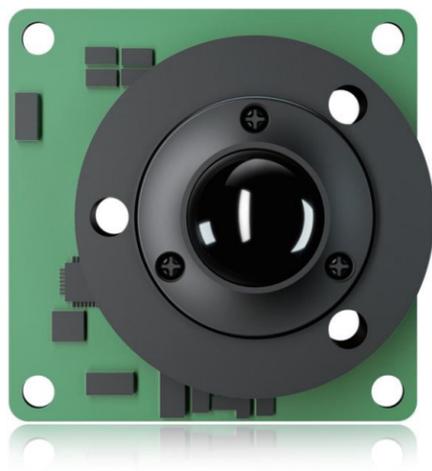
Key Lifespan:	>1 million actuations
Touchpad Lifespan:	>1 million clicks
Gross Weight:	≈0.80KG
Dimension:	190.0mm x 114.0mm (front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic waterproof MINI removable laser trackball module with 1200 DPI resolutions for fast and accurate cursor movement, with durable coating & antimicrobial surface and can be used in harsh environments to well withstand bacteria, USB interface, with 2 external left and right mouse buttons optional, panel mounted solution. Designed to meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, drop, rain, dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity, MIL-STD-461G-EMC-EMI-EMS-ESD optional.

Part Number: K-TEK-14-LTB-AVR

### Mechanical Data

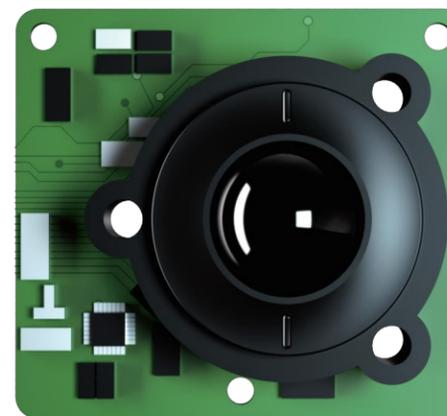
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.10KG
Dimension:	42.5mm x 42.0mm (L X W)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

14.0mm IPX4 static rated waterproof MINI laser thumb ball module with 600 DPI resolutions for fast and accurate cursor movement. Built-in wide temperature military grade PCB, hardened resin ball with ABS plastic housing for panel mounted solution, with durable coating & antimicrobial surface, it can be used in harsh environments to well withstand bacteria, USB or PS2 interface. Meet MIL-STD-810H with high and low temperature, low pressure, humidity, vibration, shock, temperature shock, drop test etc, as well as designed to meet with critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-14-LTB

### Mechanical Data

Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.10KG
Dimension:	41.0mm x 37.0mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX4
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic waterproof removable optical trackball module with 800 DPI resolutions for fast and accurate cursor movement, with durable coating & antimicrobial surface and can be used in harsh environments to well withstand bacteria, USB interface, with 2 external left and right mouse buttons optional, panel mounted solution. Designed to meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, drop, rain, dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity, **MIL-STD-461G-EMC-EMI-EMS-ESD optional**.



### Feature

IP65 dynamic waterproof washable rugged anti-vibration silver resin optical trackball module with 800 DPI resolutions for fast and accurate cursor movement, which can be removable for easy cleaning, with durable coating & antimicrobial surface and can be used in harsh environments to well withstand bacteria, USB interface, with 2 external left and right mouse buttons optional, panel mounted solution. Designed to meet **MIL-STD-810H** (high and low wide temperature, low pressure (Altitude), humidity, vibration, shock, salt spray, temperature shock, drop, rain, sand & dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity, **MIL-STD-461G-EMC-EMI-EMS-ESD optional**.

Part Number: K-TEK-16-OTB-AVR

Part Number: K-TEK-19-OTB-AVR

### Mechanical Data

Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.20KG
Dimension:	47.6mm x 47.0mm (L X W)

### Mechanical Data

Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.20KG
Dimension:	50.7mm x 50.0mm (L X W)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +60°C
Storage Temperature:	-45°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 static rated rugged anti-vibration 25.0mm black resin mechanical trackball module with 400DPI resolutions for fast and accurate cursor position with smooth operation without any noise, which can be removable for easy cleaning; With two external left and right mouse buttons optional, panel mounted solution. Designed to meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity, **MIL-STD-461G-EMC-EMI-EMS-ESD optional**.

Part Number: K-TEK-25-MTB-AVR

### Mechanical Data

Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.20KG
Dimension:	48.8mm x 48.8mm (L x W)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +60°C
Storage Temperature:	-45°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic waterproof washable rugged anti-vibration optical trackball module with 800 DPI resolutions for fast and accurate cursor movement, which can be removable for easy cleaning, with durable coating & antimicrobial surface and can be used in harsh environments to well withstand bacteria, USB interface, with 2 external left and right mouse buttons optional, panel mounted solution. Designed to meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity, **MIL-STD-461G-EMC-EMI-EMS-ESD optional**.

Part Number: K-TEK-25-OTB-AVR

### Mechanical Data

Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.20KG
Dimension:	53.0mm x 58.9mm (L X W)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +60°C
Storage Temperature:	-45°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic rated washable rugged anti-vibration 34.0mm optical trackball module with 800DPI resolutions for fast and accurate cursor position with extremely smooth operation without any noise, silver or red hardened resin trackball available, which can be removable for easy cleaning; With two external left and right mouse buttons optional, panel mounted solution. Designed to meet MIL-STD-810H (high and low wide temperature, low pressure (Altitude), humidity, vibration, shock, salt spray, temperature shock, drop, rain, sand & dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity, MIL-STD-461G -EMC-EMI-EMS-ESD optional.

Part Number: K-TEK-34-OTB-AVR

### Mechanical Data

Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.30KG
Dimension:	70.0mm x 60.0mm (L x W)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +60°C
Storage Temperature:	-45°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

38.0mm (1.5") vandal proof IP65 static mechanical black resin trackball module, with 400DPI resolutions, Meet MIL-STD-461G-EMC-EMI-EMS-ESD and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-38-MTB-AVB-151B

### Mechanical Data

Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.35KG
Dimension:	60.3mm x 60.3mm x 25.4mm( L x W x H )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic rated washable rugged anti-vibration 38.0mm silver resin optical trackball module with 800DPI resolutions for fast and accurate cursor position with extremely smooth operation without any noise, which can be removable for easy cleaning; With two external left and right mouse buttons optional, panel mounted solution. Designed to meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity, MIL-STD-461G-EMC-EMI-EMS-ESD optional.

Part Number: K-TEK-38-OTB-AVR

### Mechanical Data

Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.30KG
Dimension:	64.0mm x 74.0mm (L X W)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +60°C
Storage Temperature:	-45°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 static rated rugged anti-vibration 38.0mm black resin mechanical trackball module with 400DPI resolutions for fast and accurate cursor position with smooth operation without any noise, stainless steel ball module available, which can be removable for easy cleaning; With two external left and right mouse buttons optional, panel mounted solution. Designed to meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity, MIL-STD-461G-EMC-EMI-EMS-ESD optional.

Part Number: K-TEK-38-MTB-AVR

### Mechanical Data

Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.30KG
Dimension:	60.6mm x 60.6mm x 26.8mm( L x W x H )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +60°C
Storage Temperature:	-45°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature



IP65 dynamic rated washable rugged anti-vibration 38.0mm black resin mechanical trackball module with 400DPI resolutions for fast and accurate cursor position with smooth operation without any noise, stainless steel ball module available, which can be removable for easy cleaning; With two external left and right mouse buttons optional, panel mounted solution. Designed to meet MIL-STD-461G-EMC-EMI-EMS-ESD and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-38-MTB-AVR-NV-151B

### Mechanical Data

Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.30KG
Dimension:	59.6mm x 59.6mm (front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +60°C
Storage Temperature:	-45°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature



IP65 static rated rugged anti-vibration and removable 50.0mm black resin mechanical trackball module with 400DPI resolutions for fast and accurate cursor position with smooth operation without any noise, which can be detached for easy cleaning; With two external left and right mouse buttons optional, panel mounted solution. Designed to meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity, MIL-STD-461G-EMC-EMI-EMS-ESD optional.

Part Number: K-TEK-50-MTB-AVR

### Mechanical Data

Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.35KG
Dimension:	72.9mm x 72.9mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature



50.0mm (2.0") vandal proof IP65 static mechanical trackball module, black harden resin ball with 400DPI resolutions,USB 2.0 interface, with rear panel mounted solution. Designed to Meet **MIL-STD-461G-EMC-EMI-EMS-ESD and MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity. Military level, with strong anti-interference ability, and low radiation etc.

Part Number: K-TEK-50-MTB-AVB-EMC-151B

### Mechanical Data

Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.50KG
Dimension:	60.3mm x 60.3mm x 25.4mm( L x W x H )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.

### Feature



IP65 dynamic rated vandal proof stainless steel optical trackball with IP65 dynamic sealed & ruggedized stainless mouse buttons and IP68 dynamic rated washable 25.0mm stainless steel optical trackball module with +800 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, optical trackball module protected and shielded by stainless steel housing, 3 sealed stainless steel mouse buttons designed for right & left clicking and scrolling up and down with ball rolling, with rear panel mounting solution. one complete silicone rubber along the rear stainless steel plate for easy mounting & sealing tightly with cabinet. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water,oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B65-25-OTB-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.60KG
Dimension:	65.0mm x 80.0mm(Front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic rated vandal proof stainless steel optical trackball with IP65 dynamic sealed & ruggedized stainless mouse buttons and IP68 dynamic rated washable 25.0mm stainless steel optical trackball module with +800 DPI resolutions for fast and accurate cursor position with extreme smooth operation without any noise, optical trackball module protected and shielded by stainless steel housing, 2 sealed stainless steel mouse buttons designed for right & left clicking, with top panel mounting solution, one complete silicone rubber along the rear stainless steel plate for easy mounting & sealing tightly with cabinet. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B67-25-OTB-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.60KG
Dimension:	67.0mm x 82.0mm (front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic rugged military laser trackball with 14.0mm black hardened resin ball module with 1200DPI resolutions for fast and accurate cursor position, which can be anti-vibration and removable for easy cleaning. 2 mouse buttons on top for left and right clicking, with durable coating & antimicrobial surface and can be used in harsh environments to well withstand bacteria, 2.0mm CNC aluminum alloy top plate with sinking holes for top panel mounting solution. Designed to meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, drop, rain, dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity, MIL-STD-461G-EMC-EMI-EMS-ESD optional.

Part Number: K-TEK-B72-14-LTB--AVR-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million clicks
Gross Weight:	≈0.40KG
Dimension:	72.0mm x 95.0mm (top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-50°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic rated vandal proof mechanical trackball with durable PC mouse buttons designed for right & left clicking and scrolling up and down with ball rolling, as well as 38.0mm black hardened resin mechanical trackball module with 400 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, high quality black titanium electroplated on stainless steel top plate for rear panel mounting solution. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-M70-38-MTB-BT-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈1.00KG
Dimension:	70.0mm x 108.0mm (top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic rated vandal proof mechanical trackball with durable black titanium aluminum alloy round mouse buttons designed for right & left clicking and scrolling up and down with ball rolling, as well as 38.0mm black hardened resin mechanical trackball module with 400 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, mechanical trackball module protected and shielded by stainless steel housing, high quality black titanium electroplated on stainless steel top plate for rear panel mounting solution. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B70-38-MTB-BT-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈1.00KG
Dimension:	70.0mm x 104.0mm (front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic rated compact format vandal proof stainless steel optical trackball with IP68 washable 38.0mm silver hardened resin or stainless steel optical trackball module with +800 DPI resolutions for fast and accurate cursor position with extreme smooth operation without any noise, with rubber sealing gasket under top stainless steel plate for easy sealing and tightly mounting with cabinet, stainless steel top plate with threaded bolts for top panel mounting solution. High quality durable black titanium electroplated on the top stainless steel plate. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, dust, fungus, solar radiation etc.), MIL-STD-461G-EMC-EMI-EMS-ESD optional.

Part Number: K-TEK-B78-38-OTB-BT-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.80KG
Dimension:	78.0mm x 100.0mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic rated compact format vandal proof stainless steel optical trackball with IP65 dynamic sealed & ruggedized stainless mouse buttons and IP68 dynamic rated washable 38.0mm hardened resin optical trackball module with +800 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, stainless steel trackball optional, with rubber sealing gasket under top stainless steel plate for easy sealing and tightly mounting with cabinet, stainless steel top plate with threaded bolts for top panel mounting solution. High quality durable black titanium electroplated on the top stainless steel plate optional. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc.

Part Number: K-TEK-B78-38-OTB-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.80KG
Dimension:	78.0mm x 100.0mm (top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810F (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature



IP65 dynamic rated vandal proof stainless steel optical trackball with IP65 dynamic sealed & ruggedized stainless mouse buttons and IP68 dynamic rated washable 25.0mm stainless steel optical trackball module with +800 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, optical trackball module protected and shielded by stainless steel housing, 2 sealed stainless steel mouse buttons designed for right & left clicking, with rear panel mounting solution. one complete silicone rubber along the rear stainless steel plate for easy mounting & sealing tightly with cabinet. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B80-25-OTB-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.60KG
Dimension:	80.0mm x 80.0mm (Front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.

### Feature



IP65 static rated vandal proof stainless steel mechanical trackball with sealed & ruggedized white backlight mouse buttons and IP65 static rated adjustable backlight 38.0mm mechanical trackball module with +400 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, mechanical trackball module protected and shielded by stainless steel housing, 3 sealed stainless steel mouse buttons designed for right & left clicking and scrolling up and down with ball rolling, with one complete silicone rubber for easy mounting & sealing tightly with cabinet. high quality black titanium electroplated on stainless steel top plate with four sinking holes for top panel mounting solution. Which is good for indoor and outdoor application with rain and harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B82-38-CTB-BL-BT-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.80KG
Dimension:	82.0mm x 100.0mm (top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature



IP65 dynamic rated vandal proof stainless steel optical trackball with IP65 dynamic sealed & ruggedized stainless steel mouse buttons and IP68 dynamic rated washable 38.0mm stainless steel optical trackball module with +800 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, optical trackball module protected and shielded by stainless steel housing, 3 sealed stainless steel mouse buttons designed for right & left clicking and scrolling up and down with ball rolling, high quality durable black titanium electroplated on the top stainless steel plate, with rear panel mounting solution. one complete silicone rubber along the rear stainless steel plate for easy mounting & sealing tightly with cabinet. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B83-38-OTB-BT-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈1.00KG
Dimension:	83.0mm x 110.0mm (front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic rated vandal proof stainless steel optical trackball with IP65 dynamic sealed & ruggedized stainless steel mouse buttons and IP68 dynamic rated washable 38.0mm stainless steel optical trackball Module with +800 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, optical trackball module protected and shielded by stainless steel housing, 3 sealed stainless steel mouse buttons for right & left clicking and scrolling up and down with ball rolling, with rear panel mounting solution. one complete silicone rubber along the rear stainless steel plate for easy mounting & sealing tightly with cabinet. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B83-38-OTB-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈1.00KG
Dimension:	83.0mm x 110.0mm (front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic rated vandal proof stainless steel optical trackball with IP65 dynamic sealed & ruggedized stainless mouse buttons and IP68 dynamic rated washable 25.0mm stainless steel/hardened resin optical trackball module with +800 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, optical trackball module protected and shielded by stainless steel housing, 3 sealed stainless steel mouse buttons designed for right & left clicking and scrolling up and down with ball rolling, with top panel mounting solution. one complete silicone rubber for easy mounting & sealing tightly with cabinet. High quality durable black titanium electroplated on the top stainless steel plate with threaded bolts for top panel mounting solution. It is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water,oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.



Part Number: K-TEK-B88-25-OTB-BT-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.60KG
Dimension:	88.0mm x 88.0mm (top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-B88-25-OTB-DWP

### Feature

IP65 dynamic rated vandal proof stainless steel optical trackball with IP65 dynamic sealed & ruggedized stainless mouse buttons and IP68 dynamic rated washable 25.0mm stainless steel optical trackball module with +800 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, optical trackball module protected and shielded by stainless steel housing, 3 sealed stainless steel mouse buttons designed for right & left clicking and scrolling up and down with ball rolling, with top panel mounting solution. one complete silicone rubber for easy mounting & sealing tightly with cabinet. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water,oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.60KG
Dimension:	88.0mm x 88.0mm (top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-B95-25-OTB-UT-DWP

### Feature

IP65 dynamic rated vandal proof stainless steel optical trackball with IP65 dynamic sealed & ruggedized stainless mouse buttons and IP68 dynamic rated washable 25.0mm stainless steel optical trackball module with +800 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, optical trackball module protected and shielded by stainless steel housing, 2 sealed stainless steel mouse buttons designed for right & left clicking, with top panel mounting solution. one complete silicone rubber along the rear stainless steel plate for easy mounting & sealing tightly with cabinet. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.70KG
Dimension:	95.0mm x 90.0mm (top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-B100-DHP-BL-DWP

### Feature

IP65 dynamic fully sealed and ruggedized force sensing resistor hula pointing device for fast and accurate cursor position, 2 backlighting mouse buttons for right & left clicking, with rubber sealing gasket under top stainless steel plate for easy sealing and tightly mounting with cabinet, stainless steel top plate with threaded bolts for top panel mounting solution. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion. Meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.50KG
Dimension:	100.0mm x 116.0mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +65°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-B100-50-MTB-ML-AVB

### Feature

IP65 static vandal proof military grade trackball with 50.1mm mechanical module with black hardened resin ball included, with adjustable 200 ~ 2000 DPI dynamic resolutions for stable and accurate cursor position, with sealed 3 metal mouse buttons for left and right clicking, middle scrolling button with ball rolling. 1.50 mm top stainless plate and threaded bolts for top panel mounting solution for easy sealing and tightening with cabinet via water-tight gasket, with optional high quality scratch-proof black titanium electroplated on front stainless steel and keys to withstand salt spray, esigned to meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity, MIL-STD-461G-EMC-EMI-EMS-ESD optional.

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.50KG
Dimension:	100.0mm x 116.0mm (front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-B107-38-OTB-DWP

### Feature

IP65 dynamic rated vandal proof stainless steel optical trackball with IP65 dynamic sealed & ruggedized stainless mouse buttons and IP68 dynamic rated washable 38.0mm stainless steel optical trackball module with +800 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, optical trackball module protected and shielded by stainless steel housing, 3 sealed stainless steel mouse buttons designed for right & left clicking and scrolling up and down with ball rolling, stainless steel top plate with threaded bolts for top panel mounting solution. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈1.00KG
Dimension:	107.0mm x 120.0mm (top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature



IP65 dynamic rated vandal proof stainless steel optical trackball with IP65 dynamic sealed & ruggedized stainless mouse buttons and IP68 dynamic rated washable anti-vibration 38.0mm stainless steel optical trackball module with +800 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, which can be removable for easy cleaning, optical trackball module protected and shielded by stainless steel housing, 3 sealed stainless steel mouse buttons designed for right & left clicking and scrolling up and down with ball rolling, stainless steel top plate with threaded bolts for top panel mounting solution. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B107-OTB-R-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.60KG
Dimension:	107.0mm x 120.0mm (top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.

### Feature



IP65 dynamic rated vandal proof washable anti-vibration 38.0mm black resin mechanical trackball module +400 DPI resolutions for fast and accurate cursor position, as well as with extreme smooth operation without any noise, 3 IP68 dynamic sealed & ruggedized stainless mouse buttons designed for right & left clicking and scrolling up and down by ball rolling, high quality scratch-proof black titanium electroplated on front stainless steel, mechanical trackball module protected and shielded by stainless steel housing, which can be removable for easy cleaning, stainless steel top plate with threaded bolts for top panel mounting solution. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B107-38-MTB-AVR-BT-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.60KG
Dimension:	107.0mm x 120.0mm (top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic rated vandal proof stainless steel optical trackball with IP65 dynamic sealed & ruggedized stainless mouse buttons and IP68 dynamic rated washable anti-vibration 38.0mm optical trackball module with +800 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, which can be removable for easy cleaning, optical trackball module protected and shielded by stainless steel housing, 3 sealed stainless steel mouse buttons designed for right & left clicking and scrolling up and down with ball rolling, stainless steel top plate with threaded bolts for top panel mounting solution. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B107-38-OTB-AVR-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.60KG
Dimension:	107.0mm x 120.0mm (top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +65°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP68 dynamic rated vandal proof stainless steel optical trackball with IP65 dynamic sealed & ruggedized stainless mouse buttons and IP68 dynamic rated washable 38.0mm stainless steel optical trackball module with +800 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, optical trackball module protected and shielded by stainless steel housing, 3 sealed stainless steel mouse buttons designed for right & left clicking and scrolling up and down with ball rolling, desktop version. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B107-38-OTB-DT-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈1.20KG
Dimension:	107.0mm x 120.0mm x 52.1mm ( L x W x H)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP68
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic rated vandal proof stainless steel optical trackball with IP65 dynamic sealed & ruggedized stainless steel mouse buttons and IP68 dynamic rated washable 38.0mm stainless steel optical trackball module with +800 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, optical trackball module protected and shielded by stainless steel housing, 3 sealed stainless steel mouse buttons designed for right & left clicking and scrolling up and down with ball rolling, high quality black titanium electroplated on stainless steel top plate with threaded bolts for top panel mounting solution. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B107-38-OTB-BT-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈1.00KG
Dimension:	107.0mm x 120.0mm (top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 static Vandal proof mechanical trackball with 38mm black hardened resin ball module with 400 DPI ~1000DPI adjustable resolutions and 3 sealed and ruggedized aluminum black mouse buttons for right/left clicking and scrolling up and down with ball rolling. The electronics controller module is shielded and protected by aluminum housing, high quality durable black titanium electroplated on the aluminum front panel to match the trackball and buttons, with threaded bolts for top panel mounting solution. With 4 x R5 angles to be smooth and scratch proof. Military level, designed to Meet MIL-STD-461G-EMC-EMI-EMS-ESD and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M110-38-MTB-AVB-NV-151B

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈1.00KG
Dimension:	110.0mm x 126.0mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	Aviation plug, USB available
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-50°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 vandal proof anti-vibration and removable mechanical trackball with 38mm black hardened resin ball module with 400 DPI resolutions and 3 sealed and ruggedized aluminum black mouse buttons for right/left clicking and scrolling up and down by ball rolling with extreme smooth operation without any noise, which can be removable for easy cleaning. The electronics controller module is shielded and protected by aluminum housing, high quality durable black titanium electroplated on CNC aluminum front panel, with threaded bolts for top panel mounting solution. Designed to meet MIL-STD-461G (EMC, EMI, EMS, ESD) and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, salt mist, dust, fungus, solar radiation etc.), with strong anti-interference and low radiation ability as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M110-38-MTB-AVR-NV-151B

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.60KG
Dimension:	110.0mm x 126.0mm (front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-50°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 vandal proof anti-vibration and removable mechanical trackball with 50mm black hardened resin ball module with 400DPI resolutions and 3 sealed and ruggedized mouse buttons for right/left clicking and scrolling up and down by ball rolling with extreme smooth operation without any noise, which can be removable for easy cleaning. High quality durable black titanium electroplated on CNC aluminum front panel to be scratch proof and withstand salt spray, with threaded bolts for top panel mounting solution. Designed to meet MIL-STD-461G (EMC, EMI, EMS, ESD) and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, salt mist, dust, fungus, solar radiation etc.), with strong anti-interference and low radiation ability as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M120-50-MTB-AVR-NV-151B

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.60KG
Dimension:	120.0mm x 141.0mm (front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-50°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 sealed rugged anti-vibration and removable optical thumb ball mouse with 300~1200 CPI resolutions for fast and accurate cursor position with extreme smooth operation without any noise, with total 5 buttons: 2 for right /left clicking on upper part, 2 for webpage scrolling up/down buttons (customized function keys available upon request), as well as 1 CPI adjustable key on the bottom. CNC rugged plastic plate and housing for inclined desktop solution. The ball can be detached for easy cleaning. Designed to meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, dust, salt mist, fungus, solar radiation etc.), as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity, MIL-STD-461G (EMC, EMI, EMS, ESD) optional.

Part Number: K-TEK-M111-50-OTB-AVR-IDT

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.50KG
Dimension:	111.00mm x 152.70mm x (23.02~43.54)mm (L x W x H)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 static vandal proof trackball with 50.8mm military grade mechanical trackball module with black hardened resin ball, with adjustable 200~2000DPI dynamic resolutions, with sealed 3 metal mouse buttons for left and right clicking, middle scrolling button with ball rolling. 1.50 mm top stainless plate and threaded bolts for top panel mounting solution, high quality scratch-proof black titanium electroplated on front stainless steel and optional keys to withstand salt spray, designed to meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity, MIL-STD-461G-EMC-EMI-EMS-ESD optional.

Part Number: K-TEK-B110-50-MTB-AVB-ML-BT

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.60KG
Dimension:	110.0mm x 126.0mm (front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +70°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic vandal proof trackball with IP68 rated washable 50.0mm removable laser trackball module with black hardened black resin ball with 1200DPI resolutions, with sealed 3 metal mouse buttons for left and right clicking, middle scrolling button with ball rolling, 1.5 mm top stainless steel plate with threaded bolts for top panel mounting solution, high quality durable black titanium electroplated on the top stainless steel plate optional. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc.

Part Number: K-TEK-B110-50-LTB-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.70KG
Dimension:	110.0mm x 126mm (top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic rated vandal proof stainless steel optical trackball with IP68 dynamic rated washable and removable 38.0mm hardened resin optical trackball module with +800 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, trackball protected and shielded by stainless steel housing, designed to meet with anti-vibration feature as well as with a removable ring for easy cleaning; 2 sealed stainless steel mouse buttons designed for right & left clicking, as well as one scroll wheel in the middle for scrolling up and down, high quality durable black titanium electroplated stainless steel top plate with threaded bolts for top panel mounting solution. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B116-38-OTB-AVR-RM-BT-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.60KG
Dimension:	116.0mm x 130.0mm (front panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-50°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP68 dynamic rated vandal proof stainless steel optical trackball with IP68 dynamic rated washable and removable 38.0mm hardened resin optical trackball module with +800 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, trackball protected and shielded by stainless steel housing, designed to meet with anti-vibration feature as well as with a removable ring for easy cleaning; 2 sealed stainless steel mouse buttons designed for right & left clicking, as well as one scroll wheel in the middle for scrolling up and down, high quality durable black titanium electroplated stainless steel front plate and housing for desktop version. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B116-38-OTB-AVR-RM-BT-DT-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.70KG
Dimension:	116.0mm x 140.0mm x 47.5mm (L x W x H)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP68
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-50°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 dynamic rated vandal proof stainless steel optical trackball with IP65 dynamic sealed & ruggedized stainless mouse buttons and IP68 dynamic rated washable 38.0mm hardened resin optical trackball module with +800 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, trackball protected and shielded by stainless steel housing, 2 sealed stainless steel mouse buttons designed for right & left clicking, as well as one scroll wheel for scrolling up and down, stainless steel top plate with threaded bolts for top panel mounting solution. Which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc, no rust risk and anti-salt spray corrosion.

Part Number: K-TEK-B120-38-OTB-RM-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.80KG
Dimension:	120.0mm x 120.0mm (top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP65 static Vandal proof mechanical trackball with 50mm black hardened resin ball module with 400 DPI resolutions and 3 sealed and ruggedized mouse buttons for right/left clicking and scrolling up and down with ball rolling. High quality durable black titanium electroplated on the aluminum front panel to be scratch proof and withstand salt spray, with 4 sinking holes for top panel mounting solution. Military level, designed to Meet **MIL-STD-461G-EMC-EMI-EMS-ESD and MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M120-50-MTB-AVB-NV-151B

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈1.00KG
Dimension:	120.0mm x 141.0mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	Aviation plug, USB available
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP68 dynamic rated sealed and rugged waterproof professional optical mouse, DPI can be adjusted and switched by mouse button, built-in wide temperature military grade PCB electronics controller, with extremely good tactile feeling for left and right mouse button, durable coating & antimicrobial surface to withstand most chemicals and liquids under harsh environments. The mouse is full sized and features a 4-buttons which are designed for right & left clicking and scrolling up and down just like a conventional non-waterproof mouse, as well as one key to adjust DPI; IP68 waterproof and dust proof rating, USB interface. Which meets **MIL-STD-461G (EMC, EMI, EMS, ESD) and MIL-STD-810H** (high and low temperature, low pressure, humidity, vibration, shock, temperature shock, drop test etc), as well as critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Patented mouse (Patent number: 202422493192.6)

Part Number: K-TEK-M58-OMS-NV-151B-DT-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Gross Weight:	≈0.25KG
Dimension:	110.0mm x 58.3mm x 37.4( L x W x H )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP68
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP68 dynamic rated sealed and rugged waterproof professional optical mouse, DPI can be adjusted and switched by mouse button, with extremely good tactile feeling for left and right mouse button, durable coating & antimicrobial surface to withstand most chemicals and liquids under harsh environments. The mouse is full sized and features which are designed for right & left clicking and scrolling up and down just like a conventional non-waterproof mouse. USB interface. Which meets MIL-STD-810H with high and low temperature, low pressure, humidity, vibration, shock, temperature shock, drop test etc.

Patented mouse (Patent number: 202422493192.6)

Part Number: K-TEK-M58-OMS-DT-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Gross Weight:	≈0.25KG
Dimension:	110.0mm x 58.3mm x 37.4mm (L x W x H)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP68
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C to +55°C
Storage Temperature:	-45°C to +60°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP68 dynamic rated sealed and rugged waterproof professional optical mouse, with built-in wide temperature military grade PCB electronics controller, extreme good tactile feeling for left and right clicking, durable coating & antimicrobial surface to withstand most chemicals and liquids under harsh environments, USB interface with a retractable cable for adjustable length, plug and play, as well as CNC storage case with versatile cable routing for easy organization. Designed to meet MIL-STD-461G (EMC, EMI, EMS, ESD) and MIL-STD-810H (high and low temperature, low pressure, humidity, vibration, salt spray, shock, temperature shock, drop test etc), as well as critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Patented mouse (Patent number: 202422493192.6)

Part Number: K-TEK-M129-58-OMS-NV-151B-DT-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Gross Weight:	≈1.00KG
Dimension:	129.0mm x 172.0mm x 53.0mm (L x W x H)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP68
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +55
Storage Temperature:	-45°C ~ +60°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP68 dynamic sealed & Ruggedized 5 keys Waterproof, Hygienic Optical Mouse with durable coating & antimicrobial mouse surface withstand to most chemicals and liquids under harsh environments, the mouse is full sized and features a 5-buttons designed for right & left clicking and scrolling up and down just like a conventional non-waterproof mouse, and it is a fully sealed IP68 and compatible with both USB and PS/2.



### Feature

IP65 dynamic sealed & Ruggedized CNC aluminium alloy optical mouse with 2 mouse buttons withstand to harsh environments, such as rain, direct water, dirt, collision, especially for outdoor public application. The mouse button is designed for right & left clicking just like a conventional non-waterproof mouse, compatible with both USB and PS/2. Meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)

Part Number: K-TEK-M64-OMS-DT

Part Number: K-TEK-B68-OMS-DT-DWP

### Mechanical Data

Key Lifespan:	>1 million actuations
Gross Weight:	≈0.30KG
Dimension:	64.0mm x 126.0mm x 35.0mm (L x W x H)

### Mechanical Data

Key Lifespan:	>1 million actuations
Gross Weight:	≈0.50KG
Dimension:	125.6mm x 68.0mm x 38.0mm( L x W x H )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP68
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +60°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IPX6 rated ergonomic military thumb ball with 3 mouse buttons for right/left clicking, as well as middle wheel for scrolling function, integrated with a 34.10mm optical trackball module with 500CPI for fast and accurate cursor position with extreme smooth operation without any noise, suitable for installation in any direction and can work well, panel mounting solution. Designed to meet MIL-STD-461G (EMC, EMI, EMS, ESD) and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, drop, rain, sand & dust, fungus, solar radiation etc.), as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M100-OTB-NV-151B

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.40KG
Dimension:	136.8mm x 100.1mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB/PS2 optional
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX6
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IP25 sealed and rugged durable optical military thumb ball mouse with 400~1000 DPI resolutions for fast and accurate cursor position with extreme smooth operation without any noise, with total 5 buttons: 2 for right/left clicking, 1 DPI adjustable key, as well as 2 customized functional keys, and 1 middle wheel for scrolling, which is also with a removable ring to detach the ball for easy cleaning. It is suitable for installation in any direction and can work well. Designed to meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, dust, salt mist, fungus, solar radiation etc.), as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity, MIL-STD-461G(EMC, EMI, EMS, ESD) optional.

Part Number: K-TEK-M100-OTB-AVR

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.40KG
Dimension:	102.0mm x 131.5mm x 47.0mm (L x W x H)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP25
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +45°C
Storage Temperature:	-45°C ~ +50°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IPX6 sealed and rugged durable optical military thumb ball mouse with 300~1200 CPI resolutions for fast and accurate cursor position with extreme smooth operation without any noise, with total 5 buttons: 2 for right/left clicking, 1 CPI adjustable key, as well as 2 customized functional keys, and 1 middle wheel for scrolling function, which is also with a removable ring to detach the ball for easy cleaning. It is suitable for installation in any direction and can work well. Designed to meet MIL-STD-461G(EMC, EMI, EMS, ESD) and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, dust, salt mist, fungus, solar radiation etc.), as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M102-OTB-AVR-NV-151B

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.40KG
Dimension:	102.0mm x 131.5mm x 47.0mm (L x W x H)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX6
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +60°C
Storage Temperature:	-45°C ~ +65°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IPX6 rated ergonomic military thumb ball with 3 mouse buttons for right/left clicking, as well as middle wheel for scrolling function, integrated with a 34mm optical trackball module with 400~1000 DPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, the DPI can be automatically adjusted before ex-factory and switched by sensing the moving speed of the trackball (resolution of 400, 800, 1000 optional) to meet requirements. With fully sealed and CNC aluminum rugged back plate, oxidized painting surface treatment, wear-resistant, antibacterial, and anti-salt spray features. With four sinking holes for top panel mounting solution and 4x R2 angles to be smooth and scratch proof. USB output. Designed to meet MIL-STD-461G (EMC, EMI, EMS, ESD) and MIL-STD-810H (wide temperature, shock, salt mist, vibration, fungus, humidity etc.), with strong anti-interference and low radiation ability. Which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M129-OTB-NV-151B

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.70KG
Dimension:	129.0mm x 172.0mm(top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX6
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +70°C
Storage Temperature:	-45°C to +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M129-OTB-AVB-NV-151B

### Feature

IPX6 rated ergonomic rugged military anti-vibration and removable optical thumb ball mouse, with 500~2000 DPI resolutions for fast and accurate cursor position, extreme comfortable and smooth operation without any noise. It is also equipped with a removable ring to detach the ball for easy cleaning. With CNC aluminum black titanium electroplated rugged plate with sinking holes for top panel mount solution, USB output or aviation plug. Designed to meet **MIL-STD-461G (EMC, EMI, EMS, ESD)** and **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, dust, salt mist, fungus, solar radiation etc.), as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.70KG
Dimension:	129.0mm x 172.0mm(top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX6
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M112-OTB-NV-151B

### Feature

IPX6 rated ergonomic military thumb ball with 3 mouse buttons for right/left clicking, as well as middle wheel for scrolling function, integrated with a 34mm optical trackball module with 500CPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, the CPI can be automatically adjusted before ex-factory and switched by sensing the moving speed of the trackball to meet requirements. With fully sealed and CNC aluminum rugged back plate, oxidized painting surface treatment, wear-resistant, antibacterial, and anti-salt spray features. With threaded bolts for top panel mounting solution and 4 x R3 angles to be smooth and scratch proof. USB output/aviation plug or other customized connector optional. Designed to meet with **MIL-STD-461G-EMC-EMI-EMS-ESD**, and **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, drop, rain, sand & dust, fungus, solar radiation etc.), as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈1.00KG
Dimension:	112.0mm x 150.0mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	Aviation plug, USB available
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX6
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M129-OTB-SS-BT

### Feature

IPX6 rated ergonomic thumb ball with 3 mouse buttons for right/left clicking, as well as middle wheel for scrolling function, integrated with a 34mm optical trackball module with 500CPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise. High quality durable black titanium electroplated on stainless steel top plate with four sinking holes for top panel mounting solution and 4 x R3 angles USB output. Designed to meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, drop, rain, sand & dust, fungus, solar radiation etc.) as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.60KG
Dimension:	129.0mm x 172.0mm(top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX6
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C to +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M129-OTB-NV-151B-BT

### Feature

IPX6 rated ergonomic military thumb ball with 3 mouse buttons for right/left clicking, as well as middle wheel for scrolling function, integrated with a 34mm optical trackball module with 500CPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, the CPI can be automatically adjusted before ex-factory and switched by sensing the moving speed of the trackball to meet requirements. High quality durable black titanium electroplated on stainless steel top plate. With four sinking holes for top panel mounting solution and 4 x R2 angles to be smooth and scratch proof. USB output. Designed to meet MIL-STD-461G (EMC, EMI, EMS, ESD) and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, drop, rain, sand & dust, fungus, solar radiation etc.) as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.70KG
Dimension:	129.0mm x 172.0mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX6
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M129-150-OTB-NV-151B-DWP

### Feature

IPX6 rated ergonomic military thumb ball with 3 mouse buttons for right/left clicking, as well as middle wheel for scrolling function, integrated with a 34mm optical trackball module with 500CPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, the DPI can be automatically adjusted before ex-factory and switched by sensing the moving speed of the trackball to meet requirements. With fully sealed and CNC aluminum rugged back plate, oxidized painting surface treatment, wear-resistant, antibacterial, and anti-salt spray features. Back plate with mounting holes for rear panel mounting solution and 4 x R3 angles to be smooth and scratch proof. USB output. Designed to meet MIL-STD-461G (EMC, EMI, EMS, ESD) and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, salt mist, dust, fungus, solar radiation etc.), with strong anti-interference and low radiation ability. Which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.70KG
Dimension:	129.0mm x 150.0mm(top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX6
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C to +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M129-OTB-3B

### Feature

IPX6 rated ergonomic thumb ball with 3 mouse buttons for right/left clicking, as well as middle key, integrated with a 34mm optical trackball module with 500CPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise, the CPI can be automatically adjusted before ex-factory and switched by sensing the moving speed of the trackball to meet requirements. With fully sealed and CNC aluminum rugged back plate, oxidized painting surface treatment to be wear-resistant, antibacterial, and anti-salt spray etc. With four sinking holes for top panel mounting solution. USB output or other customized connector upon request. Designed to meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, drop, rain, sand & dust, fungus, solar radiation etc.). Which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈1.00KG
Dimension:	129.0mm x 172.0mm x 44.3mm (L x W x H)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX6
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +65°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M129-OTB-NV-151B-3B

### Feature

IPX6 rated ergonomic military thumb ball with 3 mouse buttons for right/left clicking, as well as middle button, integrated with a 34mm optical trackball module with 500CPI resolutions for fast and accurate fixing cursor position with extreme smooth operation without any noise. With CNC aluminum black titanium electroplated rugged plate, 4 M4 sinking holes, USB output or aviation plug. Designed to meet MIL-STD-461G (EMC, EMI, EMS, ESD) and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, drop, rain, sand & dust, fungus, solar radiation etc.) as well as the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.70KG
Dimension:	129.0mm x 172.0mm (L x W)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX6
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-20°C ~ +65°C
Storage Temperature:	-30°C ~ +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



Part Number: K-TEK-M129-OTB-3B-L-BT

### Feature

IPX6 rated ergonomic left-handed thumb ball with 3 mouse buttons for right/left clicking, as well as middle key, integrated with a 34mm optical trackball module with 500CPI resolutions for fast and accurate cursor position with extreme smooth operation without any noise. With rugged black titanium surface treatment stainless steel mounting plate to be wear-resistant, antibacterial, and anti-salt spray etc, with four sinking holes for top panel mounting solution. USB output or other customized connector upon request. Designed to meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, drop, rain, sand & dust, fungus, solar radiation etc.), which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.80KG
Dimension:	129.0mm x 172.0mm x 44.3mm (L x W x H)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX6
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IPX6 rated ergonomic military joystick mouse with non-contact Hall sensor design, to achieve the physical signal output through fingers, with 3 mouse buttons for right/left clicking, as well as middle buttons, with good tactile feeling and extreme smooth operation without any noise. With CNC aluminum black titanium electroplated rugged plate, 4 M4 sinking holes for top panel mount solution, USB output or aviation plug optional. Designed to meet MIL-STD-461G (EMC, EMI, EMS, ESD) and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, salt mist, dust, fungus, solar radiation etc.), with strong anti-interference and low radiation ability. Which can also meet the critical military standards in these 10 aspects: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M129-JS-2A2E-3B-NV-151B

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈0.60KG
Dimension:	129.0mm x 172.0mm(top panel)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX6
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +70°C
Storage Temperature:	-45°C to +75°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature

IPX6 rated Military trackball with 38.0mm (1.5") vandal proof mechanical black harden resin ball module with 400DPI resolutions, with 2 mouse buttons with OMRON key switch technology for right & left clicking, and middle wheel for scrolling up and down, high quality black titanium electroplated aluminum back plate to be scratch proof and anti-salt mist. Rear panel mounted solution with mounting holes. Interface aviation plug with model J14A-9ZJB. Designed to Meet MIL-STD-461G-EMC-EMI-EMS-ESD and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, temperature shock, rain, dust, fungus, solar radiation etc.) as well as military standards: reliability, safety, maintainability, testability, supportability, environmental adaptability, stability, compatibility, consistency, and continuity.

Part Number: K-TEK-M134-38-MTB-AVB-151B

### Mechanical Data

Key Lifespan:	>1 million actuations
Trackball Lifespan:	>1 million scrolling
Gross Weight:	≈1.00KG
Dimension:	134.0mm x 159.0mm( L x W )

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	Aviation plug, USB available
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-461G-EMC-EMI-EMS-ESD, and MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IPX6
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, notebook, UAV ground station, GCS etc.



### Feature



IP54 ruggedized joystick with stainless steel plate and 2 sealed stainless steel mouse buttons (optional) for right and left clicking, the whole electronic controllers protected and shielded by stainless steel housing. The joystick provides users with a 3-axis joystick function, and can control the output of X (left and right) and Y axis (front and rear) by moving the handle in any direction by  $(25^\circ \pm 2^\circ)$ ; and surely control the Z axis output by rotating  $(40^\circ \pm 3^\circ)$ . Mouse function optional. With one button on the top of the joystick (2 buttons optional), it can be set as left mouse button or right button before ex-factory. USB interface, top panel mounted solution with threaded bolts. Meet **MIL-STD-810H** (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)

Part Number: K-TEK-B100-JS

### Mechanical Data

Mechanical Lifespan:	>500,000 cycles
Gross Weight:	≈0.50KG
Dimension:	100.0mm x 116.0mm x 41.5mm (L x W x H)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, lifting appliance, medical, automation, UAV ground station, GCS etc.

### Feature



K-TEK-HC-5A2O is made of high-quality aluminum alloy for thumb operation, non-contact Hall sensing anti-interference design, compact and exquisite design make it suitable for installation on portable control panels to achieve physical multi signal transmission through thumb operation for self resetting or friction positioning. It has the advantages of flexible operation, long lifespan, and excellent protective performance.

Part Number: K-TEK-HC-5A2O

### Mechanical Data

Mechanical Lifespan:	>500,000 cycles
Gross Weight:	≈0.20KG
Dimension:	52.0mm x 91.0mm (L x H)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, lifting appliance, medical, automation, UAV ground station, GCS etc.



### Feature

K-TEK-GBC4-L2U3F industrial hall joystick is made of high-quality stainless steel, aluminum alloy (baked black paint) material, equipped with 1 trigger switch, 2 button switches, 1 high-precision and high-reliability two-dimensional force-sensitive control device, USB2.0 output, physical shaking by holding the handle and output signals to achieve specific functions through related switch buttons according to specific needs. Suitable for industry applications that have certain requirements on product control, performance, and functions.

Part Number: K-TEK-GBC4-L2U3F

### Mechanical Data

Mechanical Lifespan:	>500,000 cycles
Gross Weight:	≈1.20KG
Dimension:	120.0mm x 274.6mm (L x H)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, lifting appliance, medical, automation, UAV ground station, GCS etc.



### Feature

IP54 hall joystick provides the user with a 3-axis joystick function. It can control the output of X (left and right) and Y axis (front and rear) by moving the handle in any direction by (25 ° ± 2 °); and surely control the Z axis output by rotating (40 ° ± 3 °). Mouse function optional. With a button sits on top of the joystick, its function can be set to mouse left button or right button at the factory. USB 2.0 interface is available. Meet MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)

Part Number: K-TEK-HC1U-360-V02

### Mechanical Data

Mechanical Lifespan:	>500,000 cycles
Gross Weight:	≈0.30KG
Dimension:	48.5mm x 48.5mm x 115.0mm (L x W x H)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, lifting appliance, medical, automation, UAV ground station, GCS etc.



### Feature

K-TEK-GBC4-C2U2T--ZK industrial joystick is made of high-quality aviation aluminum alloy material, equipped with 2 button switches, USB 2.0, output signals through physically swing the handle, which can be operated by the thumb to achieve specific functions as per requirements through relevant switch buttons. It is suitable for industry applications that have certain requirements for product control experience and performance, as well as functionality.

Part Number: K-TEK-GBC4-C2U2T-ZK

### Mechanical Data

Mechanical Lifespan:	> 500,000 cycles
Gross Weight:	≈1.00KG
Dimension:	85.0mm x 228.0mm (L x H)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, lifting appliance, medical, automation, UAV ground station, GCS etc.



### Feature

K-TEK-HC-5A30 is made of high-quality aluminum alloy for thumb operation, non-contact Hall sensing anti-interference design, compact and exquisite design make it suitable for installation on portable control panels to achieve physical multi signal transmission through thumb operation for self resetting or friction positioning. It has the advantages of flexible operation, long lifespan, and excellent protective performance.

Part Number: K-TEK-HC-5A30

### Mechanical Data

Mechanical Lifespan:	> 500,000 cycles
Gross Weight:	≈0.20KG
Dimension:	52.0mm x 86.0mm (L x H)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, lifting appliance, medical, automation, UAV ground station, GCS etc.



### Feature

K-TEK-HC-5U2E is made of high-quality aluminum alloy, non-contact Hall sensing wrist operation design. It has the advantages of solidity, light appearance, convenient and flexible operation, long life, and good protective performance, which can be used by physically hand swing operation to achieve physical multi-axis signal output, and the top is equipped with 2 high-quality buttons controlled by thumbs to realize customization function.

Part Number: K-TEK-HC-5U2E

### Mechanical Data

Mechanical Lifespan:	> 500,000 cycles
Gross Weight:	≈0.20KG
Dimension:	50.0mm x 119.5mm (L x H)

### Electrical Data

Supply Voltage:	DC +5V±5%
Connect Interface:	USB
OS:	All Windows, Mac OSX, Vxworks, Android, Linux, Unix

### Reliability

CE/FCC/ROHS, MIL-STD-810H (high and low wide temperature, low pressure, humidity, vibration, shock, salt spray, temperature shock, rain, dust, fungus, solar radiation etc.)	
Protection Level:	IP65
MTBF:	>20000H
MTTR:	<30min
Operating Temperature:	-40°C ~ +75°C
Storage Temperature:	-45°C ~ +85°C
APPLICATION:	Vehicle, aerospace, naval, defense, maritime, Radar, console, lifting appliance, medical, automation, UAV ground station, GCS etc.