



Panel Mount & Panel Top HANDTRAK™

Product Description



The ITAC Systems Hand Trak (HT) pointing and control device is a gestural input engine driven device that has no moving parts and is unaffected by dust, dirt, or vibration. It can be mounted in any position: upside down, sideways, angled to the application etc. The user moves a hand or finger over an optical lens to communicate desired direction, speed, and distance of cursor movement. HT is patented in its operation and design.

HT can be panel mounted; Velcro adhered or just loosely placed on an existing control surface. The HT requires no software drivers. The HT is more rugged than an industrial track ball and is more precise than a sealed touchpad or joystick. HT is designed for EXTREME environments and has proven its abilities in steel mills, machine shops, outdoor control panels and even military applications where rugged, vibration tolerable endurance is a must.

Product Features

- Gestural Input Engine™ contains no moving parts
- Available in Panel Mount and Panel Top Configurations as well as Inverted use positioning
- Completely sealed
- Can be mounted and used at any angle
- Xenoy™ 6240 glass reinforced polycarbonate housing
- Extremely small footprint
- Made to withstand heavy usage
- Rugged exterior housing
- No drivers to install
- FCC Class B and CE Mark certified

Market Applications

- Commercial Marine
- Medical
- Government & Military
- Automotive
- Aeronautics
- Energy Distribution & Production
- Communications & Call Centers
- Kiosk and Embedded

Model	H-PMUSB-A0001/A0002	H-PMSMP-A0001/A0002	H-PMSUN-A0001/A0002	H-PTUSB-A0001/A0002
Interface	USB Panel Mount	PS/2 Panel Mount	SUN Panel Mount	USB Panel Top

Model	H-PTSMP-A0001/A0002	H-PTSUN-A0001/A0002	A0001 - Normal Axis Units A0002 - Inverted Axis Units
Interface	PS/2 Panel Top	SUN Panel Top	



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Product Details:



Unit Exterior

NEMA 4 and IP66 certified for protection against the following:

- Dirt and debris
- Liquids and light splashing
- Circulating dust
- Airborne lint, dust, and fibers
- Incidental personal contact with the enclosed equipment
- Rain, snow and sleet



Unit Interior

- No moving parts
- Not reliant on gravity for operation
- Entirely RoHS Compliant
- Conformal coated PCB resistant to liquids, moisture and dust.
- Switches rated at 1,000,000 minimum actuations



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Product Specifications:

Functional	
Resolution	192 counts per full Revolution
Input Switches	4
Buttons	Left Key
	Right Key
	Middle Key
	Speed Key
Available Interfaces	USB, PS/2 Mouseport SUN
OS Compatibility	Windows 98, 2000, 2003, XP, 7 Linux supporting USB Devices MacOS ver 8 and above
Cable Length	96 inches (2.4 meters)
Power Consumption	Typical Operating: 44 mA

Mechanical	
Dimensions	Length: 4.7 inches (119.7mm) Width: 4.22 inches (107.2mm) Height: 1.58 inches (40.1mm)
Weight	9.76 oz (277 grams)
Body Material	Xenoy 5220
Tracking Rate	1,500 frames per second

Environmental	
Operating Temp	-15°C to +55°C Minimum
Storage Temp	-40°C to +85°C Minimum
Humidity	45% to 85% (5° to 35°C)

Compliance	
1	RoHS
2	FCC Part 15
3	EU DoC
4	NEMA 4
5	IP66

INTERFACE	MODEL NUMBER	FEATURES
USB	H-PMUSB-A0001/A0002	Panel Mount
PS/2	H-PMSMP-A0001/A0002	Panel Mount
SUN	H-PMSUN-A0001/A0002	Panel Mount
USB	H-PTUSB-A0001/A0002	Panel Top
PS/2	H-PTSMP-A0001/A0002	Panel Top
SUN	H-PTSUN-A0001/A0002	Panel Top
A0001 - Normal Axis Units A0002 - Inverted Axis Units		

Interface	USB
Connector	4-pin USB A
Pin Assignments	Pin 1 = +5 VDC Pin 2 = Data - Pin 3 = Data + Pin 4 = Ground



Interface	PS/2 Mouseport
Connector	6-pin Mini-Din Male
Pin Assignments	Pin 1 = PS/2 Data (DAT) Pin 2 = No Connect Pin 3 = Signal Ground (GND) Pin 4 = +5V DC Pin 5 = PS/2 Clock (CLK) Pin 6 = No Connect



Interface	SUN
Connector	8-pin Mini-Din Male
Pin Assignments	Pin 1 = Ground Pin 2 = Ground Pin 3 = +5 Pin 4 = Mouse Pin 5 = Keyboard Receive Pin 6 = Keyboard Transmit Pin 7 = PWRN Pin 8 = +5





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Drawings and Diagrams:

