



Let Your Fingers Do The Directing

Grayhill's Instinct technology tracks up to five finger touches at a time. The Multi-Touch Control Wheel combines a multi-touch touchpad with a circular groove to offer even more functionality. Touching the North, South, East or West points in the groove can be interpreted as joystick switch inputs. Running your finger around the groove can be interpreted as an encoder input. The number of relative state changes is user configurable from 4 to 256 per revolution. A proximity sensor automatically detects when a user approaches the device, allowing the OEM equiptment to enter a power-saving mode when not in use. A few of the many multi-touch gestures are shown below.













Multi-Touch Control Wheel

Features

- Grayhill Instinct™ Gesture Recognition
- Three devices in one:
- Multi-Touch touchpad
- 4-256 position rotary encoder
- 4 position (N, S, E, W) joystick
- · Proximity sensor
- Impervious to cleaning solutions
- Easy to integrate into any device
- Rugged, scratch-resistant surface
- USB compatible HID device

Possible applications include:

- Medical devices
- Clean room controls
- Off-Highway vehicles

Instinct™ Technology. Intuitively Functional.

Grayhill Instinct is a set of multi-touch gesture recognition software tools that, when integrated with Grayhill multi-touch components, creates more intuitive human interface solutions.

A Shorter Distance from Mind to Machine

An intuitive, easy-to-use interface improves productivity. Instinctive movements provide a variety of commands, all without the fingers leaving the touchpad. This allows faster interaction without needing to take eyes off of the screen. Plus, ergonomics are improved by consolidating all controls within easy reach.

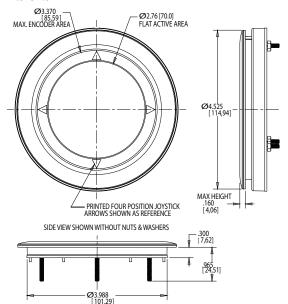
Simplicity in use & Device Design

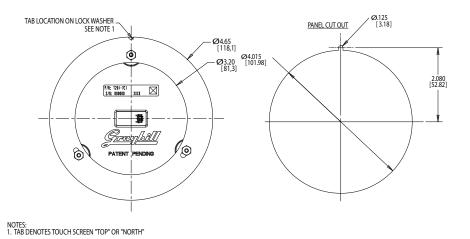
The Multi-Touch Control Wheel can replace touchscreens, keypads, trackballs, switches and joysticks. This makes for clean design and cuts costs of manufacturing. The MTCW increases the engineer's flexibility in building functionality into any product, while reducing front panel size and complexity.



INTUITIVE HUMAN INTERFACE SOLUTIONS

DIMENSIONS





ENVIRONMENTAL & MATERIAL SPECIFICATIONS

Operating temperature	-10°C to +60°C
Seal	IP67
Humidity	95% Humidity at 60°C for 240 hours
Chemical resistance (Resistance to accidental spills and disinfectants)	72 Hr exposure to Coffee, Cola, Saline, Methylated spirits, Isopropyl, Ammonia, Chlorine bleach, Sodium Hypochlorite, Ethanol, Dupont® Virkon®, Dupont® RelyOn®, Betadine, Hydrogen Peroxide, Cidex®, Steris®, Civco®
Material	Xenoy

ELECTRICAL PERFORMANCE SPECIFICATIONS

USB	2.0, 3.0 Compatible, Full speed HID Compliant		
Operating Voltage	2.5 to 5.5 Vdc		
Input Current	50mA max @5V		
Icon Wear Resistance	Minimum 1,000,000 cycle		
Touchpad Resolution	1280 x 1280 pixels		

CONNECTION

Mating Connector: Molex 501939-0400

PIN	1	2	3	4
USB	+ Vcc	USB Negative (D-)	USB Positive (D+)	Gnd

Grayhill, Inc.

561 Hillgrove Avenue LaGrange, Illinois 60525

phone: (708) 354-1040 fax: (708) 354-2820

instinct@grayhill.com

ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS

Designed and tested for use in systems requiring IEC 60601-1		
RF Emissions	CISPR 11 Group 1 Class B	
Electrostatic Discharge	IEC 61000-4-2 ±6kV Contact ±8kV Air	
Electrical Fast Transient/ Burst	IEC 61000-4-4 ±1kV Coupling Clamp	
Power Frequency (50/60 Hz) Magnetic Field	IEC 61000-4-8 3 A/m	
Conducted RF*	IEC 61000-4-6 Level 1 - 120dBuV, 150 kHz to 80 MHz	
Radiated RF	IEC 61000-4-3 3 V/M 80 MHz to 2.5 GHz	

^{*} see Grayhill application notes

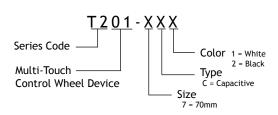
Specifications subject to change

part: T201-DEV1

SOFTWARE DEVELOPMENT KIT

Grayhill offers an Instinct Software Development Kit that provides the user with a common development platform for prototyping and evaluating different solutions. The Software Development Kit is comprised of a mounted Multi-Touch Control Wheel, a standard USB cable and demo software. The kit is available directly from Grayhill, or from one of several distributers. For more detailed information, including a copy of the User's Guide, go to www. grayhill.com/instinct.

ORDERING INFORMATION



Contact Grayhill for Custom Options.

AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























Website:

Welcome to visit www.ameya360.com

Contact Us:

Address:

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

> Sales:

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

Customer Service :

Email service@ameya360.com

Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com