



# M20U6-NxW Medical Mouse

NEMA 4X (IP66) MOUSE CURSOR CONTROLLER

## M20U6-NxW MEDICAL MOUSE / CLEANROOM POINTING DEVICE



• Shown above M20U6-N3W Medical Mouse

CTI's Plug-n-Play Cleanroom / Medical Mouse is a cursor controller or pointing device that is uniquely designed for usage in areas where ensured cleaning, disinfecting, or sterilization is a necessity. It's encased in the finest grade of stainless steel with corrosion protection. An advanced molecular bonding coating process seals the Medical Mouse against penetration from biohazard materials. With unmatched reliability and durability under harsh conditions the Medical Mouse is guaranteed to provide many years of uninterrupted service, [take a look here](#).

The NEMA 4X (IP66) sealed Medical Mouse is unaffected by extreme temperatures or exposure to harsh solid and/or liquid contaminants. The Cleanroom / Medical Mouse is a very precise pointing device with three standard left, middle, and right mouse buttons on the enclosure. The N3W and N33W joysticks have an additional left mouse button on top of the joystick for rapid point and click selection capability, even while wearing safety gloves.

CTI's confidence in the Plug-n-Play Cleanroom / Medical Mouse is backed by a One Year Warranty and an unrivalled Five Year Repair Policy. A thorough analysis of healthcare safety, productivity enhancements, and financial savings solidifies the investment decision. For clinicians and laboratory scientists, the ability to hygienically cleanse the Medical Mouse of infectious particles and pathogens will ensure a healthier and safer environment.

### M20U6-NxW STANDARD FEATURES

- NEMA 4X (IP66) passivated Stainless Steel Enclosure
- Operating Temperature -40°C to 80°C (-40°F to 176°F)
- Non-contacting sensors and Sub-Assemblies with high reliability and durability (MTBF 100,000+ hours, 10,000,000+ deflections)
- Molded rubber elastomer keys rated for 10 million activations
- White FDA Silicone Boot - NEMA 4 (IP66) sealing - Operation in harsh environmental conditions
- Parylene Coated boot, handle, and switchpad
- Signal Interference protection (EMI/RFI)
- Joystick movement is Spring Return to Center
- Conformal Coating of PCB protects electronic components
- M2000 Aluminum Holder is Available or Stainless Steel Holder
- Standard 9.5ft USB cable with "A" Plug
- Left Mouse Button on top of N3W and N33W joystick knob

### M20U6-NxW TECHNICAL DRAWINGS

- [761830](#) [M20U6-N2W NEMA 4X \(IP66\) Medical Mouse](#)
- [761854](#) [M20U6-N24W NEMA 4X \(IP66\) Medical Mouse](#)
- [761841](#) [M20U6-N3W NEMA 4X \(IP66\) Medical Mouse](#)
- [761842](#) [M20U6-N33W NEMA 4X \(IP66\) Medical Mouse](#)

### M20U6-NxW MEDICAL MOUSE MANUFACTURING OPTIONS

W	Bulkhead Cable Set (1 - 5ft Cable, 4.5ft Behind Panel)
	Painted Aluminum Enclosure (Special Order)

\*For complete ordering information please refer to Technical Drawings

### M20U6-NxW JOYSTICK KNOB OPTIONS



N2W

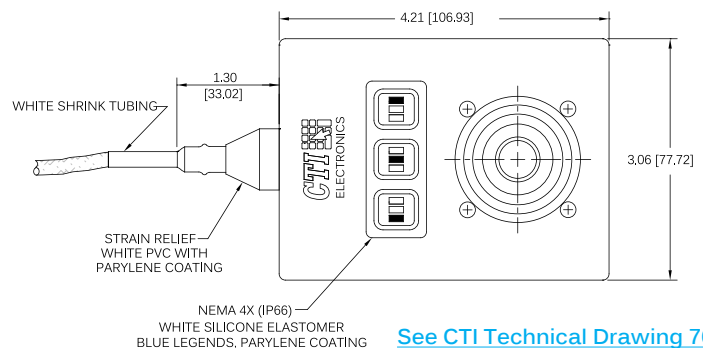
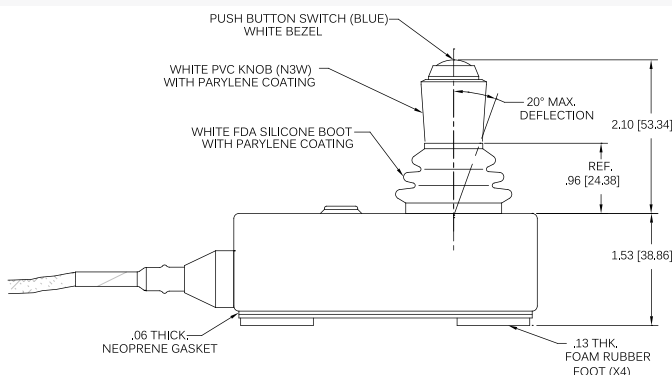
N24W

N3W

N33W

For more information please refer to [Joystick Knob Options Drawing 761873](#)

### M20U6-N3W TECHNICAL DRAWING



[See CTI Technical Drawing 761841](#)



# M20U6-NxW Medical Mouse

NEMA 4X (IP66) MOUSE CURSOR CONTROLLER

## M20U6-NxW SPECIFICATION

M20U6-N2W Dimensions	Width: 3.06" (77.72mm)	Height: 4.21" (106.93mm)	Depth: 3.13" (79.50mm)
M20U6-N24W Dimensions	Width: 3.06" (77.72mm)	Height: 4.21" (106.93mm)	Depth: 3.63" (92.20mm)
M20U6-N3W Dimensions	Width: 3.06" (77.72mm)	Height: 4.21" (106.93mm)	Depth: 3.63" (92.20mm)
M20U6-N33W Dimensions	Width: 3.06" (77.72mm)	Height: 4.21" (106.93mm)	Depth: 4.63" (117.60mm)
Enclosure	NEMA 4X (IP66) passivated Stainless Steel		
Operating Systems	Microsoft Windows® Operating System (Windows XP, Windows 7, Windows 8, Windows 10) Mac OS X® or Linux OS requires compliant USB Device Class Definition for Human Interface Devices 1.11		

## M20U6-NxW ELECTRICAL SPECIFICATION

MTBF	Greater than 100,000 hours	
Cabling	Standard USB 9.5ft with "A" Plug	USB Bulkhead

## M20U6-NxW MECHANICAL SPECIFICATION

N2W Specifications	Knob Type Non-Pushbutton	Dual Axes	Sensor Technology Inductive	Height: 1.6" (40.64mm)
N24W Specifications	Knob Type Non-Pushbutton	Dual Axes	Sensor Technology Inductive	Height: 2.1" (54.36mm)
N3W Specifications	Knob Type Pushbutton	Dual Axes	Sensor Technology Inductive / Momentary Switch	Height: 2.1" (54.36mm)
N33W Specifications	Knob Type Pushbutton	Dual Axes	Sensor Technology Inductive / Momentary Switch	Height: 3.1" (78.74mm)
Life Expectancy (Joystick)	X & Y Axes 10,000,000 random deflections		Normally Open Momentary Switch 1,000,000+ cycles	
Life Expectancy (Switches)	Normally Open Momentary Switch 10,000,000+ activations			
Joystick Movement	Simultaneous X & Y Axes Spring Return to Center			
Joystick Operational Force	X & Y Breakout Force 140g (typical)		X & Y Full Scale Force 235g (typical)	
Shock (Joystick)	Peak Value 30g (typical)	Peak Duration 11ms	Waveform Half Sine	
Shock (Switches)	Peak Value 50g (typical)	Peak Duration 11ms	Waveform Half Sine	
Vibration	Frequency / Displacement	5-25 Hz / 0.1" (typical)	25-55 Hz / 0.03" (typical)	

## M20U6-NxW ENVIRONMENTAL SPECIFICATION

Operating Temperature	-40° to 80° C / -40° to 176° F
Storage Temperature	-40° to 80° C / -40° to 176° F
Relative Humidity	100% condensing
Sealing Rating	NEMA 4X (IP66)
Protection	Parylene Coated boot, handle, and switchpad - toughest molecular barrier protection

## CONFORMANCE / CERTIFICATIONS / COMPLIANCE

subject to manufacturing options applied

U.S.A. Standards	U.S. FCC 47 CFR 15 Class A & B	RF Emissions Compliant 8Kv (Contact), 15Kv (Air)
	MIL-STD-461F	Radiated Emissions and Susceptibility Conformance
	MIL-STD-810G	Protection against humidity, fungus, and salt spray Conformance
	MIL-STD-901D	Protection against shock Conformance
	MIL-STD-167-1	Protection against vibration Conformance
	MIL-STD-1472G	Human Factors Conformance
	MIL-I-45208	Quality System Conformance
	IPC-A-610 II	Acceptability of Electronics Assemblies Certification
European Standards	ISO 9001:2008 (Registration No. 74 300 3983)	
	"CE" Compliant	
	Restriction of Hazardous Substance (RoHS) Directive Compliant	
	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Directive Compliant	
International Standards	IEC 61000-4-2 and EN61000-4-2	ESD 8Kv contact and 15Kv air Conformance
	IEC 61000-4-3 and EN61000-4-3	Radiated Emissions and Susceptibility Conformance
	IEC 61000-6-3 and EN61000-6-3	Electromagnetic Compatibility Conformance