



S Y S T E M S

NEVER
THINK
IMPOSSIBLE



High-precision
Hall-effect control
sticks for smooth,
accurate input



Mission-tailored
configuration for
different platforms
and roles



Optimized
ergonomic design
for long, demanding
missions



Simple and reliable
wired control for
low-latency
operation

PD-1

OPERATOR CONTROLLER

BUILT FOR WORK. FEELS LIKE PLAY.

Compact, lightweight,
and ergonomic operator
controller designed for
drones and robotics
systems

TECHNICAL SPECIFICATIONS

GENERAL

- Dimensions:** 164*101*62mm
- Weight:** ~400 g (depending on configuration)
- Housing:** Aluminum housing with MIL-spec hard anodized finish
- Operating temperature:** -20°C to +60°C
- Protection rating:** IP66 compliant

ELECTRONICS

- Power:** USB 2.0 (5V), wired operation only
- Connection interface:** USB 2.0 (HID device, plug-and-play)
- OS compatibility:** Windows / Linux / macOS (no drivers required)
- Indicators:** Configurable status LEDs (power, activity, event-based alerts)

CONNECTIVITY & INTEGRATION

- USB 2.0 wired connection only
- Recognized as a standard HID device
- Optional configuration utility for input mapping and calibration
- Developer documentation available for integrators

POWER

- Power consumption:** up to 100 mA
- USB-powered only (no internal battery)

CERTIFICATIONS

- Designed to meet MIL-STD-810 (shock, vibration)
- Designed to meet MIL-STD-461
- RoHS / REACH compliant

CONTROL ELEMENTS



FRONT VIEW



TOP VIEW



- 1 2-Axis Hall-Effect Castle Joysticks
- 2 3-Way Control Switch
- 3 5-Way Control Switch

- 4 Push Buttons (button colors can be configured)
- 5 Push Button with Protective Cover
- 6 1-Axis Hall-Effect Precision Sliders

- 7 Durable sealed Fischer connector (optional configuration via direct cable)
- 8 Strap Anchor
- 9 Customizable Label with Client's Logo



NTI Systems

Contact Us Today to Learn More about our Rugged Solutions

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