



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 | ④ Push Buttons
(button colors can be configured) | ⑦ Durable sealed Fischer connector
(optional configuration via direct cable) |
| ② 3-Way Control Switch | ⑤ Push Button with Protective Cover | ⑧ Strap Anchor |
| ③ 5-Way Control Switch | ⑥ 1-Axis Hall-Effect Precision Sliders | ⑨ Customizable Label with Client's Logo |



NTI Systems

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about our Rugged Solutions

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