

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

BURLEIGH

Burleigh 7003 Joystick

Burleigh 7003 Joystick, Provides ergonomic manual control for multi-axis positioning systems. Adjustable sensitivity allows fine or coarse movements. Interfaces with motor controllers for real-time input.



MODEL

Burleigh 7003

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

7003

LISTING

<https://aumictechlabs.com/products/7003-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Burleigh 7003 Joystick is an ergonomic manual control device for multi-axis positioning systems, delivering real-time proportional input to compatible motor controllers. It operates across up to three axes with adjustable sensitivity for both fine and coarse motion control, supporting manual operation or TTL-based automated control in open-loop systems. Hall effect sensors provide 10-bit resolution at a 0.1 ms update rate, enabling high-speed, high-resolution positioning when paired with Burleigh Inchworm controllers. Technical Specifications Control axes: Up to 3 axes Sensor technology: Hall effect sensors Supply voltage: 8 V to 30 V Maximum input current: 180 mA at 24 V Output voltage range: 0.5 V to 5 V with 2.5 V neutral position Resolution: 10-bit with 0.1 ms update rate Output signals: Proportional electric outputs, PWM, and digital signals; fully programmable for voltage, current, PWM, and CANBusKey Features Adjustable sensitivity mechanism for precision control across operating ranges Ergonomic design with dust-proof rubber covers Direct interface with motor controllers for real-time closed-loop feedback TTL and RS-232 remote control capability when integrated with appropriate controllers Support

for both open-loop and closed-loop motion architectures

Typical Applications Precise manual positioning in multi-axis systems; laboratory and industrial motion control; systems requiring variable sensitivity between coarse and fine adjustments.

Compatibility & Integration Designed specifically for Burleigh Inchworm controllers including the 6000ULN and 6003 models, which employ PZT drive electronics. Compatible with any motor controller accepting the joystick's proportional or digital output formats.

Features & description

From manufacturer datasheet

Technical Specifications

Control axes: Up to 3 axes Sensor technology: Hall effect sensors Supply voltage: 8 V to 30 V
Maximum input current: 180 mA at 24 V Output voltage range: 0.5 V to 5 V with 2.5 V neutral position
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Burleigh 7003 — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Burleigh 7003. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values Request Calibration → Request Repair Quote →

Burleigh 7003 price

This Burleigh 7003 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Burleigh 7003 calibration cost

NIST-traceable calibration for the Burleigh 7003 is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

Unit notes

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Sensor technology: Hall effect sensors

Supply voltage: 8 V to 30 V

Maximum input current: 180 mA at 24 V

Output voltage range: 0.5 V to 5 V with 2.5 V neutral position

Resolution: 10-bit with 0.1 ms update rate

Output signals: Proportional electric outputs, PWM, and digital signals; fully programmable for voltage, current, PWM, and CANBus

Key Features

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Ergonomic design with dust-proof rubber covers

Direct interface with motor controllers for real-time closed-loop feedback

TTL and RS-232 remote control capability when integrated with appropriate controllers

Support for both open-loop and closed-loop motion architectures

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Compatibility & Integration

De

7003 Specifications

PARAMETER	VALUE
Voltage / Current Range	180 mA at 24 V, 8 V to 30 V

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

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Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values

[Request Calibration](#) → [Request Repair Quote](#) →

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.