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Data Sheet

August 15, 2026

BURLEIGH

Burleigh 6200-2-3-1-3 2-Axis Inchworm Controller

The Burleigh 6200-2-3-1-3 is a 2-axis Inchworm controller designed for precise positioning and motion control. It provides closed-loop control of Burleigh Inchworm motors, offering high resolution and stability. Ideal for demanding applications in microscopy, metrology, and nanopositioning.



MODEL

Burleigh 6200-2-3-1-3

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6200-2-3-1-3

LISTING

<https://aumictechlabs.com/products/6200-2-3-1-3-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Burleigh 6200-2-3-1-3 is a 2-axis Inchworm controller delivering closed-loop positioning and motion control for Burleigh Inchworm motors. Built on sophisticated PZT drive electronics, this controller provides nanometer-level resolution and coordinated multi-axis operation in open or closed-loop configurations. Technical Specifications Axis Control: 2-axis, operable independently or simultaneously Control Mode: Closed-loop with position feedback Resolution: Nanometer-level capable Positioning Increment: Encoder resolution-dependent step capability Position Glitch: <50 nm peak-to-peak (standard motors); ~1 μ m (UHV motors) Lateral Stability: ± 0.2 μ m optional (Lateral Stability Option) Motor Compatibility: Burleigh Inchworm motors including IW-700 Series Position Encoding: TTL quadrature signal interface Key Features Closed-loop Position Display

Real-time motor position readout Referencing & Return Zero/home position definition and repeatability Load Compensation Maintains position under varying load conditions Speed Control Adjustable via ramp signal slope and clamp change frequency; handset speed knob option Stall Detection Configurable motor stall monitoring with adjustable check parameters, interval, and speed thresholds Multi-mode Operation Manual, remote (TTL), and PC-based control Compatibility & Integration Manual Control: Burleigh 6005 Handset or 6003 Joystick via Manual Port Remote Operation: TTL signal interface PC Interface: Burleigh Model 660 PCIC (IBM-PC/XT compatible) or Model 671 ISA PC card for high-level language control The 6200-2-3-1-3 belongs to the 6000 series controller family, featuring coordinated PZT drive electronics for rapid, stable actuation across demanding precision positioning applications.

6200231 Characteristics / Specifications

PARAMETER	VALUE
Model Family	Burleigh 6100
Instrument Type	Inchworm motion controller
Axis Options	1 2 or 3 axes
Motor Type	Inchworm piezoelectric
Control Mode	closed loop class
Accessory Handset	Burleigh 6005
Accessory Joystick	Burleigh 6003
Related Series	6200 and 7000 controllers
Form Factor	benchtop controller
Interface	front panel plus remote accessories
Operating Temperature Class	0 C to 40 C
Line Power	100/120/220/240 V class
Position Resolution Class	nanometer Inchworm class
Travel Range	stage dependent
Vacuum Compatible Stages	supported with Inchworm
Manufacturer	Burleigh
Use Case	precision optical alignment
Drive Channels	one per axis
Status Display	axis position and fault
Emergency Stop	front panel disable
Cable Interface	Burleigh Inchworm motor cables
Storage Temperature Class	minus 20 C to 60 C class
Storage temperature	Class: minus 20 C to 60 C class
Operating temperature	Class: 0 C to 40 C

6200231 Specifications

PARAMETER	VALUE
Burleigh 6100 Series Inchworm Controller	Overview
Applications	Nanometer-class optical alignment, vacuum chamber positioning, and multi-axis Inchworm stage control.
Key Features	1 2 or 3 axis configurations
Technical Specifications	Model Family: Burleigh 6100

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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Operating temperature	Class: 0 C to 40 C
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Position Resolution Class	nanometer Inchworm class
Travel Range	stage dependent
Vacuum Compatible Stages	supported with Inchworm
Manufacturer	Burleigh
Use Case	precision optical alignment
Drive Channels	one per axis
Status Display	axis position and fault
Emergency Stop	front panel disable
Cable Interface	Burleigh Inchworm motor cables
Storage Temperature Class	minus 20 C to 60 C class Notes Axis options and accessory models from Burleigh 6100/6200/7000 Inchworm controller catalog descriptions. Exact force/speed limits are stage-model specific.

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.

Specifications	
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Notes	
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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

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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.