

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

BURLEIGH

Burleigh RC-45 CFT Controller

The Burleigh RC-45 is a confocal Fabry-Perot (CFT) controller providing temperature control, photodetector amplification, programmable ramp generation, and high-voltage piezo drive I/O for Burleigh Fabry-Perot / etalon experiments. Front-panel controls include photodetector bias/gain, temperature high/low with under/over indicators, ramp bias/amplitude/duration (off to 10 s), and magnifier x1 or x100. Rear Connectors: HV output; Output divided by 100; Blanking; Trigger; Drift Control; Ext Input Line Voltage: 110 V or 220 V selectable (fuse dependent) Fuses: Slow-blow (configuration dependent) Alias: RC-45; Burleigh RC-45 CFT Controller



MODEL

Burleigh RC-45

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

RC-45

LISTING

<https://aumictechlabs.com/products/rc-45-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Burleigh RC-45 CFT Controller is a precision motion control and signal conditioning instrument engineered for closed-loop positioning, temperature regulation, and photodetector signal amplification. It delivers the stability and repeatability demanded by microscopy, metrology, and advanced automation systems through integrated temperature control, photodetector conditioning, and programmable ramp generation with selectable output magnification. Technical Specifications Temperature Control High and low setpoints with under/over-temperature indicator lights Photodetector Amplifier Integrated bias and gain controls for signal conditioning Ramp Generator Programmable ramp duration: 0 to 10 seconds Adjustable bias, amplitude, and duration

Output Magnification Selectable $\times 1$ or $\times 100$ magnification for output signals Power Input Configurable for 110 V or 220 V operation, 50/60 Hz Slow-blow fuse protection HV Output High-voltage output for specialized applications

Key Features Closed-loop control for enhanced accuracy and repeatability Drift control and compensation functionality Multiple rear-panel connectors: temperature control, photodetector amplifier, I/O, programmable ramp, HV output, output divided by 100, blanking, trigger, drift control, and external input Optional rackmount ears for standard equipment rack integration

Typical Applications Motor control systems, optical signal processing, automated positioning, precision temperature management, and multi-axis motion platforms requiring synchronized control and signal amplification.

Compatibility & Integration Designed for use with Burleigh inchworm motors. Supports integration with photodetector amplifiers, signal processing subsystems, and external control inputs through comprehensive I/O functionality.

Features & description

From manufacturer datasheet

Features

- Temperature controller with high/low and over/under indicators

Applications

- Confocal Fabry-Perot interferometer piezo and temp control

45 Characteristics / Specifications

PARAMETER	VALUE
Model	RC-45
Manufacturer	Burleigh (Thorlabs / EXFO lineage)
Instrument Type	CFT Controller
Functions	Temperature control; photodetector amp; I/O; programmable ramp
Photodetector Controls	Bias and gain (front panel)
Temperature Controls	High and Low with under/over lights
Ramp Controls	Ramp Bias; Ramp Amplitude; Ramp Duration
Ramp Duration Range	Off to 10 s
Magnifier Settings	x1 or x100
Rear Connectors	HV output; Output divided by 100; Blanking; Trigger; Drift Control; Ext Input
Line Frequency	50/60 Hz
Line Voltage	110 V or 220 V selectable (fuse dependent)
Fuses	Slow-blow (configuration dependent)
Product Family	Burleigh RC-series CFT
Ship Weight Class	~20 lb
Alias	RC-45; Burleigh RC-45 CFT Controller Notes Specs from Burleigh RC-45 CFT Controller reseller/feature listings (Artisan). Confirm fuse rating and HV polarity for the attached piezo/etalon before use.
Programmable ramp	bias, amplitude, duration off-10 s

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.