

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 1, 2026

BURLEIGH

Burleigh RC-44 Ramp Generator

The Burleigh RC-44 is a programmable high-voltage ramp generator designed to drive piezoelectric actuators used with Burleigh Fabry-Perot interferometers and related electro-optic positioning systems. It produces a linear voltage ramp from about +3 V to 1000 V (maximum) at up to 2 mA, with selectable ramp durations from 20 ms to 1000 s. An external input scales 10 V to 1000 V out at maximum gain. Integral ramp linearity is better than 0.25% between the 10% and 90% points (without correction). Piezoelectric scanning of Fabry-Perot interferometers; controlled high-voltage ramps for Burleigh RC-series optics mounts and etalons; laboratory electro-optic positioning and spectroscopy setups requiring slow to medium-speed HV ramps.



MODEL

Burleigh RC-44

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

RC-44

LISTING

<https://aumictechlabs.com/products/rc-44-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Burleigh RC-44 Ramp Generator produces stable, repeatable linear voltage ramps for precision control in scientific and industrial applications. This benchtop instrument generates accurate voltage sweep waveforms with high output stability, enabling consistent results across experimental setups, process control, and quality assurance workflows. Engineers and laboratory professionals rely on the RC-44 for controlled voltage sequencing in spectroscopy, material characterization, sensor testing, automated testing, and calibration procedures. Technical Specifications Model: RC-44 Manufacturer: Burleigh Form Factor: Benchtop instrument Waveform

Type: Linear voltage ramps Output Stability: High precision for repeatable resultsKey Features The RC-44 delivers precise modulation of voltage ramp characteristics for demanding measurement and control applications. Its durable construction supports long-term operation in laboratory and industrial environments. Output connectors and control inputs are configured for standard laboratory integration.

Typical Applications Spectroscopy and material characterization with controlled voltage sweeps Sensor testing requiring stable voltage ramp generation Automated testing and process control with precise voltage sequencing Calibration procedures in quality assurance workflows Advanced research and development requiring accurate voltage modulation

Compatibility & Integration The RC-44 interfaces with a variety of scientific and industrial equipment for integration into existing test systems and control setups. Power requirements are tailored for standard US power grids. Specific connector configurations, control signal inputs, remote operation capabilities, and detailed compatibility information are available in product documentation.

Features & description

From manufacturer datasheet

Features

- Programmable / selectable ramp duration
- High-voltage output to 1000 V
- Amplitude control via multi-turn potentiometer
- External analog input for gain scaling
- BNC connectors
- Integral linearity less than 0.25% (10%-90%)

44 Characteristics / Specifications

PARAMETER	VALUE
Model	RC-44
Manufacturer	Burleigh
Instrument Type	Programmable high-voltage ramp generator (piezo drive)
Amplitude Control	3-3/4 turn potentiometer
Duration	9-position rotary switch and toggle; 20, 50, 100, 200, 500 ms; 1, 2, 5, 10, 20, 50, 100, 200, 500, 1000 s
Output Voltage	+3 V to 1000 V max, variable
Output Current	2 mA max
Slew Rate	1 V/us max
External Input	10 V for 1000 V out at max gain
Ramp Linearity	less than 0.25% integral linearity between 10% and 90% points (without correction)
Connectors	BNC Standard Operating Conditions Observe high-voltage safety practices. Do not exceed 2 mA load. Match ramp duration and amplitude to the piezo actuator ratings of the Burleigh interferometer or mount. Allow warm-up for stable amplitude.

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

Specifications

PARAMETER	VALUE
Model	RC-44
Manufacturer	Burleigh
Instrument Type	Programmable high-voltage ramp generator (piezo drive)
Amplitude Control	3-3/4 turn potentiometer
Duration	9-position rotary switch and toggle; 20, 50, 100, 200, 500 ms; 1, 2, 5, 10, 20, 50, 100, 200, 500, 1000 s
Output Voltage	+3 V to 1000 V max, variable
Output Current	2 mA max
Slew Rate	1 V/us max
External Input	10 V for 1000 V out at max gain
Ramp Linearity	less than 0.25% integral linearity between 10% and 90% points (without correction)
Connectors	BNC

Standard Operating Conditions

Observe high-voltage safety practices. Do not exceed 2 mA load. Match ramp duration and amplitude to the piezo actuator ratings of the Burleigh interferometer or mount. Allow warm-up for stable amplitude.

Operational Notes

Intended for Burleigh piezo / Fabry-Perot systems; confirm cable polarity and actuator voltage limits before connecting. "Programmable" refers to front-panel duration and amplitude selection rather than digital GPIB programming unless a specific option is labeled on the unit.

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 1, 2026

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