WaveUortex

electrode rotator

With a small footprint and affordable price, the WaveVortex is ideal for those needing to perform rotating disk electrode (RDE) or rotating ring-disk electrode (RRDE) studies with smaller lab spaces. The attractive WaveVortex design combines the rotator, control unit, shaft, and enclosure in one compact and convenient package. A new design from Pine Research - a name synonymous with electrode rotatation.









Lower Noise

Compact Design

Easy Cable/Tubing Management

Minimal Setup and Maintenance

New Start/Stop/Pause Control Features

Shaft Pre-Installed and Included in Price



2741 Campus Walk Ave · Building 100 · Durham, NC 27705 · USA

+1 919.782.8320 pinewire@pineresearch.com pineresearch.com



Rotation Rate

Rate Display

Specifications

Electrical

100 to 200 RPM ± 2 counts of display reading Rate Accuracy 200 to 8000 RPM ± 1% of display reading

4 digit display indicates rotation rate (RPM)

Rate Control 10-turn rotation rate control knob push button with Pause and Run LEDs (front panel)

Rate Control allows optional rate control via a signal input (external) located on external I/O connector 1 RPM/mV (default), 2 RPM/mV, 4 RPM/mV

> optional digital (TTL) motor stop input signal located on external I/O connector, front panel LED indicates when external motor

stop is active

Enclosure interlock prevents rotation when enclosure Interlock

window is in raised position

front panel LED indicates when enclosure

window is in raised position

Rate Output allows optional external rotation rate

monitoring via a signal output located on external I/O connector

output signal ratio: 2 RPM/mV

Motor

Motor Power 11 W

Control Method closed loop servo-system (PWM)

temperature compensated tachometer

Motor Type permanent magnet

Max Continuous Torque 18.7 milliNewton-meters

Motor Protection

Power

Requirements DC Supply: 24 VDC; 1.5 A

Electrode Connections

electrode connections on the motor unit disk electrode: red banana jack ring electrode: blue banana jack

AC Mains: 100 - 240 VAC, ±10%; 50/60 Hz; 1 A

Chassis Terminal

metal banana jack located on the motor unit and also on external I/O connector

DC Common

DC Common (analog ground) connection provided on external I/O connector

Physical

Shipping Weight 24 pounds (11 kg)

Shipping Dimensions 16 x 16 x 16 in. (41 x 41 x 41 cm)

Instrument Weight 16 pounds (7.3 kg)

15 x 11 in. (38 x 28 cm) Instrument Width x Depth

Instrument Height

with enclosure lowered: 15 in. (38 cm) with enclosure raised: 24 in. (61 cm)

Materials

enclosure base and sides: black high-density polyethylene enclosure window: clear polycarbonate electronics cabinet: black powder coated aluminum

For over fifty years, Pine Research has been the trusted source for research grade electrode rotators. Our legacy continues with the WaveVortex.

