Lowitz arc halo machine

Power:

- Lithium Ion rechargeable battery
  - miniature size: 3.7V, 35mAh, ~3€
  - medium size: 3.7V, 500mAh, ~15€

Motraxx Mikro-Elektromotor K10WA, ~20500 U/min without load, DC 1.5V, ~10€

- adjusting ring for the motor-axis:
  - Modelcraft 10541, 4mm, ~5€

Construction:

- any superglue ~5€
  (mounting the prism, the axis coupler etc.)
- + some piece / bar of metal

- Gorilla plastic ~10€
  (to model the stand of the device)

Motraxx Mikro-Elektromotor 2025-22, ~8000 U/min without load, DC 1.5-3.0V, 4mm shaft ~4€

The Crystal:

- hexagonal lightpipe, 4mm aperture, ~75€
  just a small chunk / slice is needed.
  Order from Edmund Optics GmbH

2 x micro slide switches ~2€

500hm precision multi-turn potentiometer ~2€
  (coarse control of recolution number)

For the physics of its ice-counterpart see: http://www.atoptics.co.uk/halo/lowitz.htm