µAligna® Motor Control

High-Precision Motor Control Electronics

- µStep drivers for controlling motorized actuators
- USB interface and PC software for remote steering and process automation
- open software for user programming
- combination movements and motorized scanning

Applications

- control of linear actuators for laser beam steering:
  - motorized mirror mounts for 4D beam positioning
  - movement of focusing optics, detectors etc.
  - control of optical elements in inaccessible locations
  - automated/scripted motion control
- control of rotational actuators:
  - rotations of polarizing optics, shutters etc.
  - laser intensity control/modulation

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Control Electronics

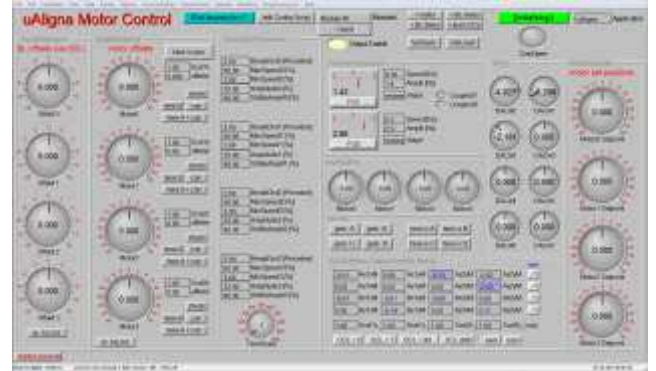**µAligna:** Compact Control Electronics
- µController, 8 bit
- interfaces: USB, optionally serial, ethernet or wireless
- supports multiple motor-driven actuators (up to four motors for the variant µAligna 004, up to eight for the variant µAligna 008, more motors on request)
- SPI and I^2C bus

Software

Kangoo: Comprehensive Control Program
- vizualization of all µController parameters
- logging of any value vs. time
- 2D or 4D scanning and measurement
- fully scriptable
- compatible with Windows 7, Vista, XP, 2k, 9x (Linux via Wine)
- plain-text communication with the µController for simple integration with other control software

Opto-Mechanics
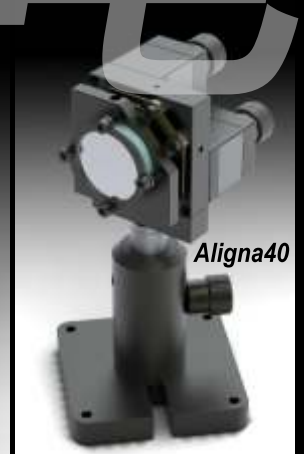
Aligna 60: Motorized Mirror Mount 60x60 mm
- two ultra microstepping linear actuators
- manual adjustment by knurled knobs
- reference optical encoder for both axes
- several fixing methods for mirrors or other components
  (1", 1/2", 2", and others, any thickness)

Aligna 40: Motorized Mirror Mount 40x40 mm
- same as *Aligna 60*, more compact in size
- preferred for tight space requirements

Aligna60

Aligna40

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