



μ Aligna[®] Motor Control

High-Precision Motor Control Electronics

- μ Step 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

μAligna Motor Control

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 I²C bus



Software

Kangoo: Comprehensive Control Program

- visualization 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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