



dynAXIS 421

Compact High Performance Galvanometer Scanner

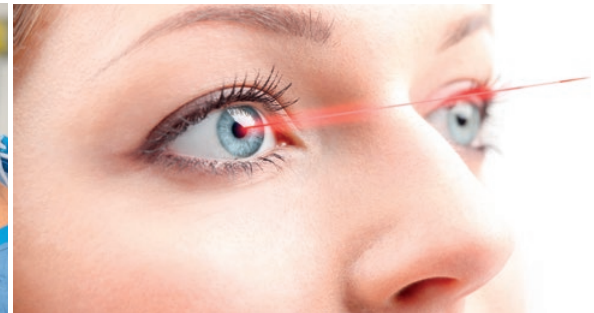
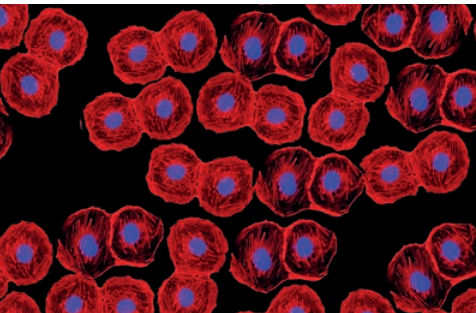
SCANLAB expands its product range with the dynAXIS 421 galvanometer scanner. This moving-magnet closed-loop galvo is particularly suitable for applications with small apertures and highest dynamic performance. With its very small dimensions, it is ideal for compact and handheld devices, including medical and ophthalmic instruments.

Key Features

- Suitable for very small apertures (3 mm – 7 mm)
- Optimized motor design enabling faster and more efficient scanning
- A new optical position detector, resulting in high precision and stability
- Superior acceleration and efficient power handling, for minimum heat generation and maximum scan speeds
- Highest dynamic performance when used in combination with SCANLAB's innovative digital servo drivers

Typical Applications

- Ophthalmic imaging
- Microscopy
- Medical laser treatments
- Laser material processing



Recommended Servo-Driver Boards

In combination with the compact SCANLAB **microISB digital servo-driver board**, the dynAXIS 421 achieves maximum dynamic performance and precision with low heat generation. The digital technology also provides the system status values and output signals relevant for the respective application.

Flexibility to the User

- Extensive choice of control options depending upon cost and performance goals
- Miniature servo drivers to fit the most compact systems
- Fully digital servo control options, including advanced and customizable system status monitoring

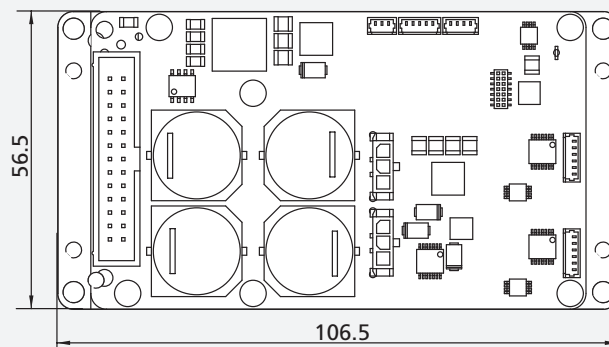
Control Board

Digital galvanometer scanning systems can be operated using SCANLAB's RTC control boards via digital commands. Alternatively customers may use their own controllers.

Example of Suitable SCANLAB Servo Board

microISB

(digital dual axis servo-driver)



Length x Width x Height: (106.5 x 56.5 x 25) mm³

dynAXIS 421

