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Optimizing the Alignment: CO₂ Laser and Scan Head Integration



The integration of CO₂ lasers and galvanometer-based scan heads presents technical challenges. Optimizing alignment parameters holds the key to maximizing efficiency.

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Aerotech Inc.

The AGV-CPO laser scan

head balances performance and value for a range of applications. The entry point for our high-performance 2-axis laser scan heads, it includes the CORE performance capabilities of our AGV-HPO and -XPO scanners, 22-bit resolution, excellent dynamics and ultra-low thermal drift.

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[Three-Axis Galvo System Scan Heads](#)

Thorlabs Inc.

Thorlabs' Three-Axis

VantagePro[®] Galvo System

Scan Heads feature XY scanning mirrors and dynamic Z-axis focusing elements to achieve field sizes up to 1000 × 1000 mm² or spot sizes down to Ø22 µm.

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