

ARO Installs Revolutionary IBS Chamber

**featuring broadband optical monitor and gradient indexing for high damage UV
and ultrafast laser optics**

We are proud to announce we have recently installed a state-of-the-art IBS coating chamber. With this new chamber design, initial research shows profound improvements in laser induced damage thresholds. Our IBS chamber improves the optical coating quality by reducing particle contamination, decreasing absorption, and controlling gradients between optical layers.



We achieve these revolutionary results with the cutting-edge target technology and optical broadband monitor installed in the chamber.

This technology provides precise layer thickness control and optical layer stability. Subsequently,

hundreds of coating layers can be

uniformly deposited. The refractive index between optical coating layers can also be tuned. By controlling the gradient index between coating layers and the precise layer thickness, ARO will develop next-gen optical products with increasingly higher damage thresholds.

This new IBS technology expands our product selection in order to offer improved solutions for the advancing field of laser technology. Our IBS technology is well suited for ultrafast, high damage coatings in the UV region down to 266nm, as well as the visible and NIR.

The IBS chamber will be used to develop custom optical solutions for customers. Product offerings will include a larger selection of high damage threshold HR, broadband AR, and sharp cut off filter coatings. The low loss, low scatter reflectors and AR coatings are perfectly suited for high power laser applications. Steep edge cut off filter coatings will be developed for the telecom and biomedical markets. ARO will provide volume, OEM, and prototype production runs.

As technology continually advances to higher power and shorter pulsed lasers, ARO will leverage our industry leading expertise and new IBS capabilities to be at the forefront of laser optics development. Reach out to our team at Sales@arocorp.com for inquiries.



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