

ExiCheck

Gas Exchange Accessory

- The industry's only "fire-and-forget" excimer LA systems*
- the performance of an excimer with the ease of a YAG
- Unattended, automatic gas exchanges on a scheduled basis
- Maintains passivation and peak performance of laser cavity
- Powers up, fills and shuts down system 24/7 as needed
- Safe: no human interaction with ArF cylinder

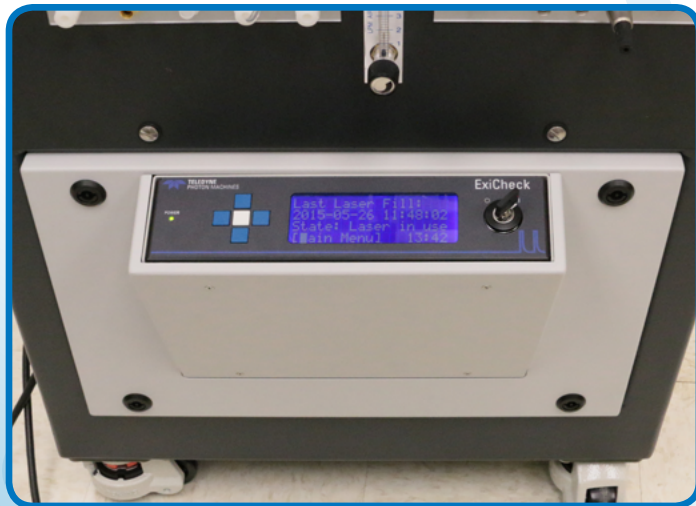


*Excite and Analyte.G2 system option

About the ExiCheck

Over time, excimer gas loses efficacy and the output from an excimer laser head will decrease. Passivation of the laser head extends the usable lifetime of the gas in the laser cavity; however, regular gas exchanges are still necessary. If a gas exchange is missed, passivation is lost and the effective lifetime of the gas fill is reduced. Once missed, it takes significant effort and gas to re-passivate and return to peak performance.

The ExiCheck accessory connects to your ATL excimer gas system and allows fully unattended gas exchanges. The patent pending system comprises a valve and pressure monitoring system connected to an intelligent control module. This system performs gas exchanges on a regular, programmable schedule to maintain passivation in the laser cavity and internal laser tubing, thereby maintaining peak performance. Additionally, the ExiCheck accessory is fully integrated into your laser system, whether you have an Analyte Excite or Analyte G2.



ExiCheck installed into lower back panel of Analyte G2

Components

- ExiCheck Intelligent Control Module
- ExiCheck Sensor Module
- Pressure Sensor
- Flow Control Valve
- Integration Panels for Analyte G2 or Analyte Excite

Modes of Operation

- Manual Gas Exchange
- Automated Gas Exchange at Scheduled Interval
- Bleed-Through



CETAC Technologies and Photon Machines joined forces back in June 2010 with a view to advance laser ablation technology for elemental analysis, and to offer a full range of products globally. This collaboration brought together the experience in Photon Machines' design team with the sample introduction expertise of CETAC. This partnership has taken the next natural step and both companies have merged under the Teledyne Instruments banner.

Teledyne Photon Machines, a brand of Teledyne CETAC Technologies, provides laser ablation systems including CO₂ and diode lasers, 213 nm solid state Nd:YAG, 193 excimer laser systems and femtosecond laser systems. In addition, the company provides accessories to enhance the capabilities of laser ablation systems.



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