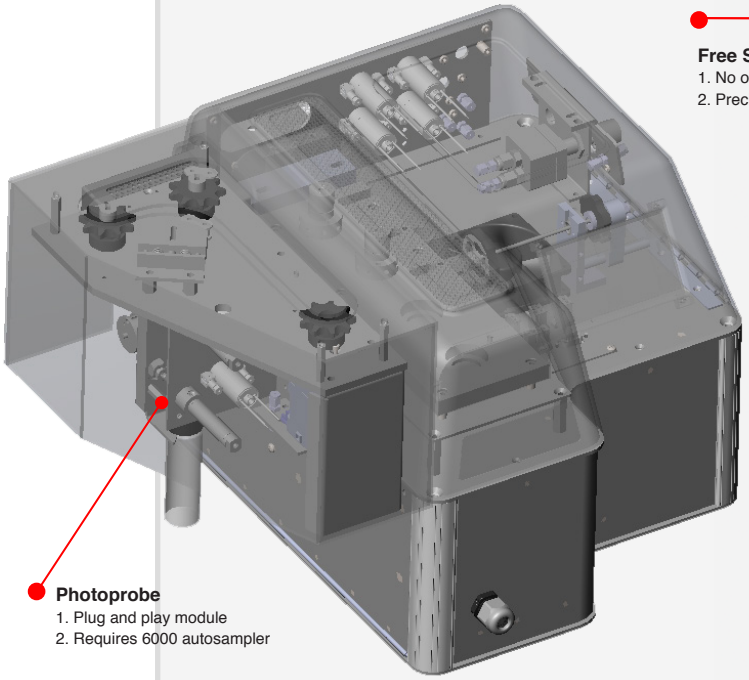
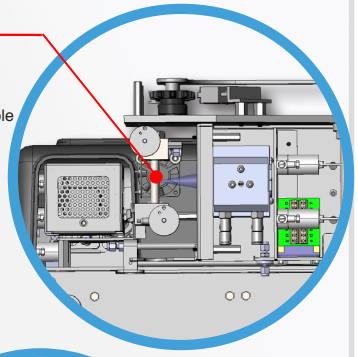
Photoprobe for Pyroprobe

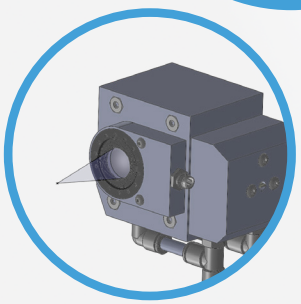
Photoprobe is a unique device that uses high power xenon lamp to irradiate sample in the Drop-In-Sample-Chamber (DISC) to introduce environmental degradation with the combination of programmable temperature ramp and reactant gas. The intensity of the UV light is up to 800 mW/mm² of 260 – 400 nm, which shortens the testing time by an order of magnitude.



Photoprobe
1. Plug and play module
2. Requires 6000 autosampler

Free Space Focusing
1. No optical fiber
2. Precise focusing on the sample





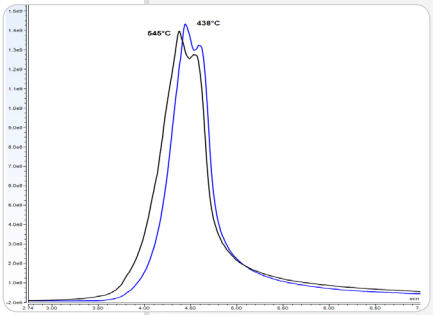
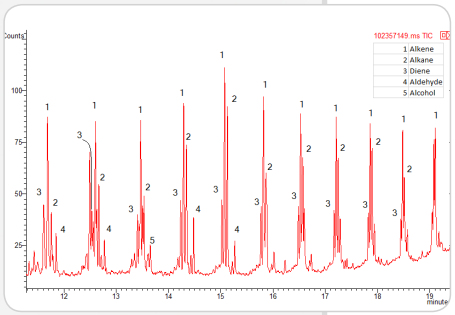


Photo oxidative degradation on HDPE after 30 minutes of irradiation with the presence of air at 25 mL/min

Left: EGA comparison to non-irradiated HDPE
Right: TIC of photo oxidative degradation products



Technical Specifications:

	Photoprobe
Wavelength Range	260 nm - 400 nm
Light Intensity	800 mW/mm²
Light Control	0-100% (1% Step)
UV Bulb Power	175 W
UV Bulb Lifetime	>90% Peak Power in 1000 Hours >80% Peak Power in 2000 Hours
Mount	Requires Autosampler Module

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