

ADD-ON: SHG, THG

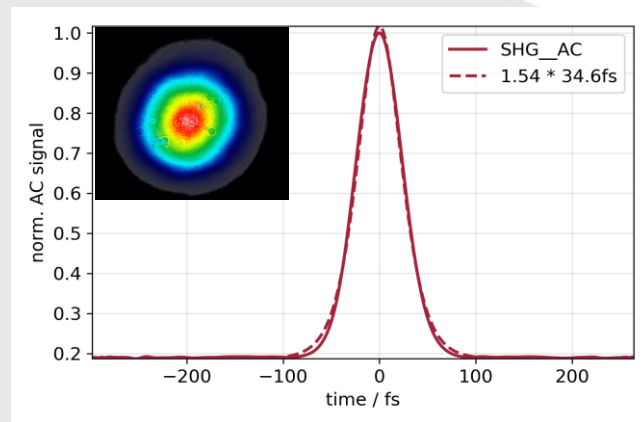


ADD-ON: Frequency conversion to VIS and UV

Many applications benefit from central wavelengths in the VIS or UV range. AFS offers fully integrated frequency conversion modules from 1030nm to 515nm, 343nm or even 258nm (on request). The conversion efficiency depends on the pulse duration of the driving laser. The table below shows typical values that can be specified.

	<300 fs	<40 fs
SHG (1030nm -> 515nm)	>50%	>15%
THG (1030nm -> 343nm)	>25%	>5%
FHG (1030nm -> 256nm)	On request	

Conversion efficiency starting from 1030nm depending on pulse-duration



AC measurement of a SHG-pulse at 35fs pulse duration and 9.4W average power. Inset: Output beam profile.



MORE INFORMATION

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