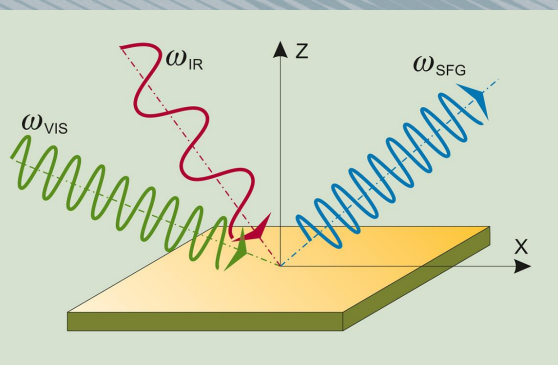


Beam Shaping Optics    Nanosecond Lasers    Crystals  
Spectroscopy    Tunable Lasers    DPSS/Diode Modules  
Picosecond Lasers    Femtosecond Lasers  
Autocorrelators    Optics & Mechanics

## NEWSLETTER | September 2020



### Sum Frequency Spectrometer SFG

Infrared spectroscopy is used to characterize vibrational states of molecules. Nonlinear SFG spectroscopy provides additional information about molecules on surfaces or at interfaces. A tunable pulsed infrared laser beam is mixed with a visible laser beam to generate an output beam at the sum frequency. This signal can be measured with optical detectors. The observed SFG spectra show the deformation of molecular binding states from centro-symmetrical geometry.

>> [more](#)



### Laser Q2-HE with Higher Pulse Energy

The high energy nanosecond laser series Q2-HE is now available with up to 120 mJ at 10 Hz or 100 mJ at 20 Hz, 1053 nm. The series comprises models up to 100 Hz with laser medium Nd:YAG and Nd:YLF and their respective 2nd, 3rd, 4th and 5th harmonics. The compact lasers are entirely air-cooled, provide good beam quality and low jitter <0.5 ns. Guaranteed lifetime of pump diodes is >2 GShots. This series is well suited for applications like laser ablation, LIBS and remote sensing.

>> [more](#)



### USP Scanning Autocorrelator IRA

Scanning autocorrelator IRA is dedicated for pulse duration and pulse contrast measurements in the nearfield of fs and ps pulses. Basic model IRA-VISIR covers 450 to 2000 nm while IRA-MIR with range from 2 to 11  $\mu\text{m}$  is particularly suited for pulse duration measurements of Optical Parametric Amplifiers. This device comes with a user-friendly software. It shows a real time representation in femtoseconds of autocorrelation function and pulse duration at FWHM.

>> [more](#)

You are cordially invited to our exhibition:

▲ Wetzlarer Herbsttagung | September 29 - 30, 2020

We plan to participate at further events if possible. Please visit [www.topag.de](http://www.topag.de) for new announcements.