

# NIR Spectrometry for Characterizing Laser Emissions

*Researchers in Poland, together with collaborators in Germany, Australia and Singapore, used a NIRvana camera alongside a SpectraPro HRS spectrometer to characterize laser emissions.*

The researchers investigated solitons in a laser. Solitons are special, self-reinforcing waves and have important applications in building new kinds of optoelectronic devices. The emission of the devices in the IR is characterized by spectroscopy and momentum space spectroscopy while imaging of the devices is performed in 0th order of the spectrograph. Using the 2nd port of the SpectraPro HRS system a streak camera is used for time dependent spectroscopy as well.

**Featured Paper/Publication:** [Observation of gain-pinned spatial dissipative solitons in a microcavity laser](#), arXiv, 2019

**Reference Lab:** Marcin Syperek, Wroclaw University, Poland

**Featured Product:** [NIRvana](#), [SpectraPro HRS](#)