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Ultra-fast multi-wavelength pyrometer for high temperature measurements

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A common approach to deal with the unknown surface emissivity is to measure the thermal emission at multiple wavelengths –an approach called multi-wavelength pyrometry. Our new pyrometer uses 8 wavelengths from 600 to 1500 nm and different types of detectors, such as photodiodes and Multi Pixel Photon Counters (MPPC). This allows one to measure the temperature in a broad temperature range up to a few thousand Kelvins with high temporal resolution up to nanoseconds.

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