

# Very high-speed single-shot ultrafast pulse measurement

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**Abstract:** In this work we report on the development of a system for measuring single shot ultrafast laser pulses with a bandwidth greater than 2 THz at 1550 nm. The hybrid optical and electronic system is capable of measurement rates greater than 1 MHz with a temporal range of up to 5 ns. The process is all linear, and single amplified and shaped pulses from a mode-locked Erbium fiber laser are characterized. Characterization methodology will be discussed.