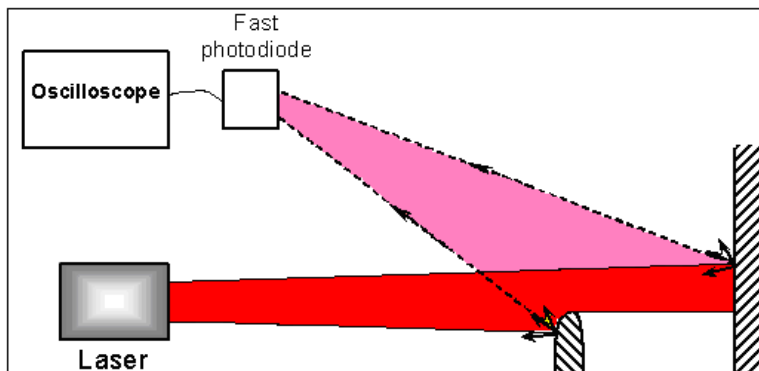
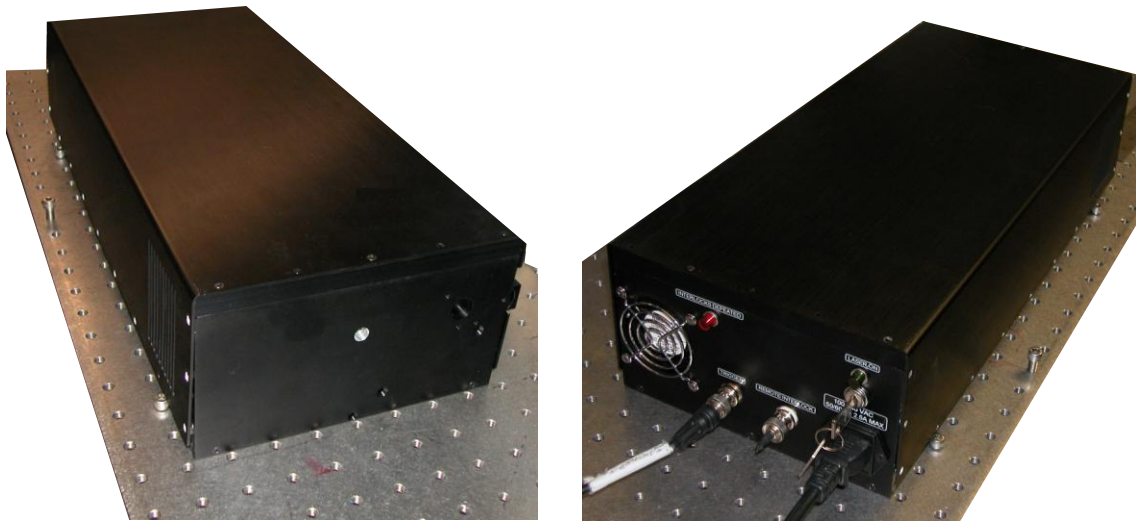
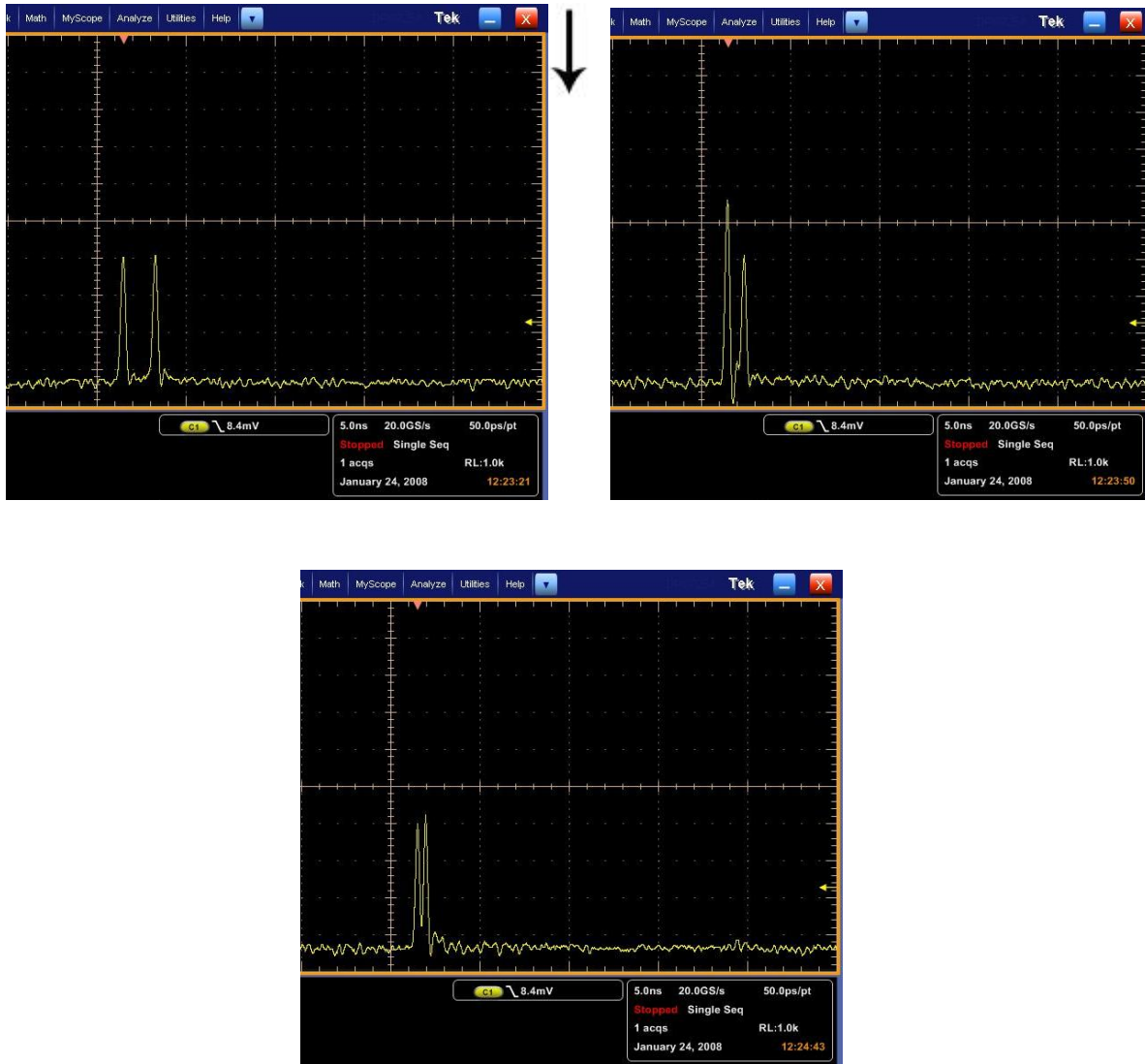


Ranging and Sensing

Eye-safe lasers can be applied for urban profiling, auto and truck vehicle collision avoidance, security zone monitoring, landing, high precise positioning systems (both for global and local). Passat's compact eye-safe 100-uJ 200-Hz lasers (www.Passatltd.com/pdf/PageI.pdf) allow ranging up to one thousand feet with a pulse-to-pulse time interval measurement accuracy about couple of inches.



Results of our testing made with an optical scheme depicted on left, demonstrate the ability to measure the distance with the accuracy better than 3 inches, see below.



The typical waveforms recorded with 100ps pulses at 1599nm.

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