

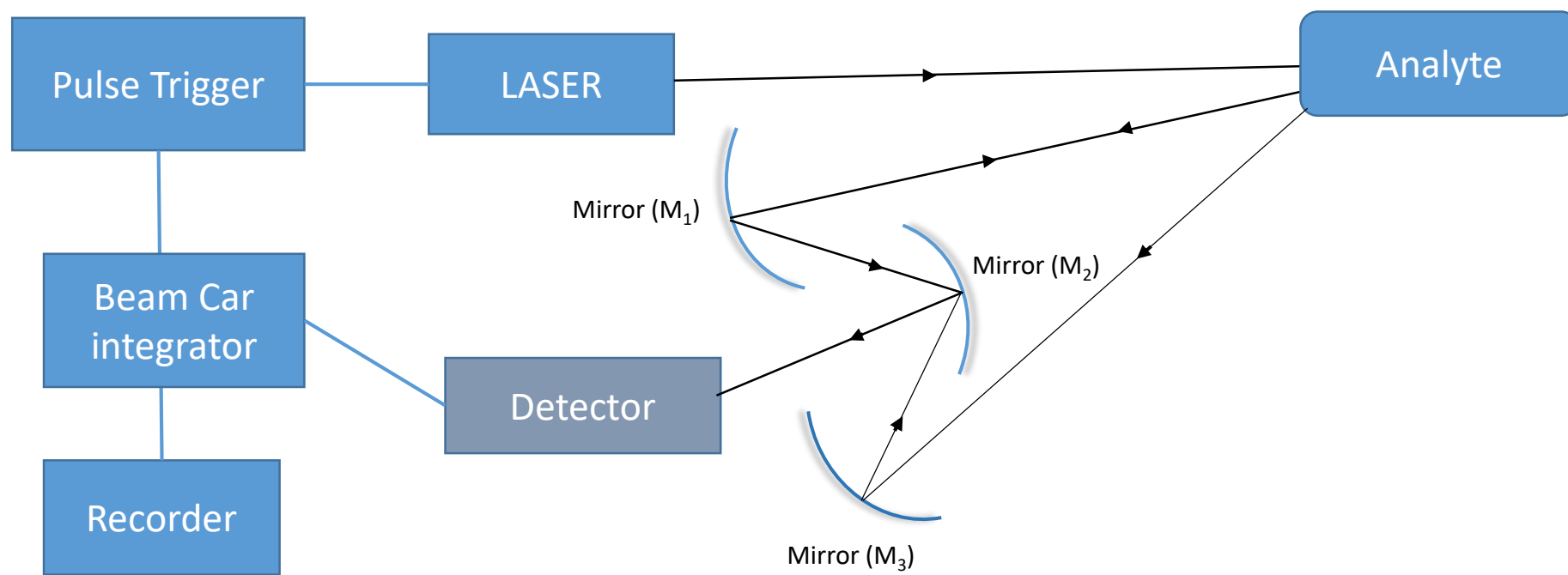
LIDAR

Light Detection and Ranging (LIDAR) is used to measure distance and quantify particular analyte present far away from the observer.

This technique is based on scattering phenomena or other processes like fluorescence, differential absorption, Raman spectroscopy in which intensity of light from the analyte is monitored using a detection scheme. Particularly, Raman spectroscopy has an advantage that we can probe environment of the analyte.

Instrumentation

To have synchronization between Laser source and detector, pulse trigger technique is used which couples the Laser source and the detector through a box car integrator.



Schematic diagram of LIDAR