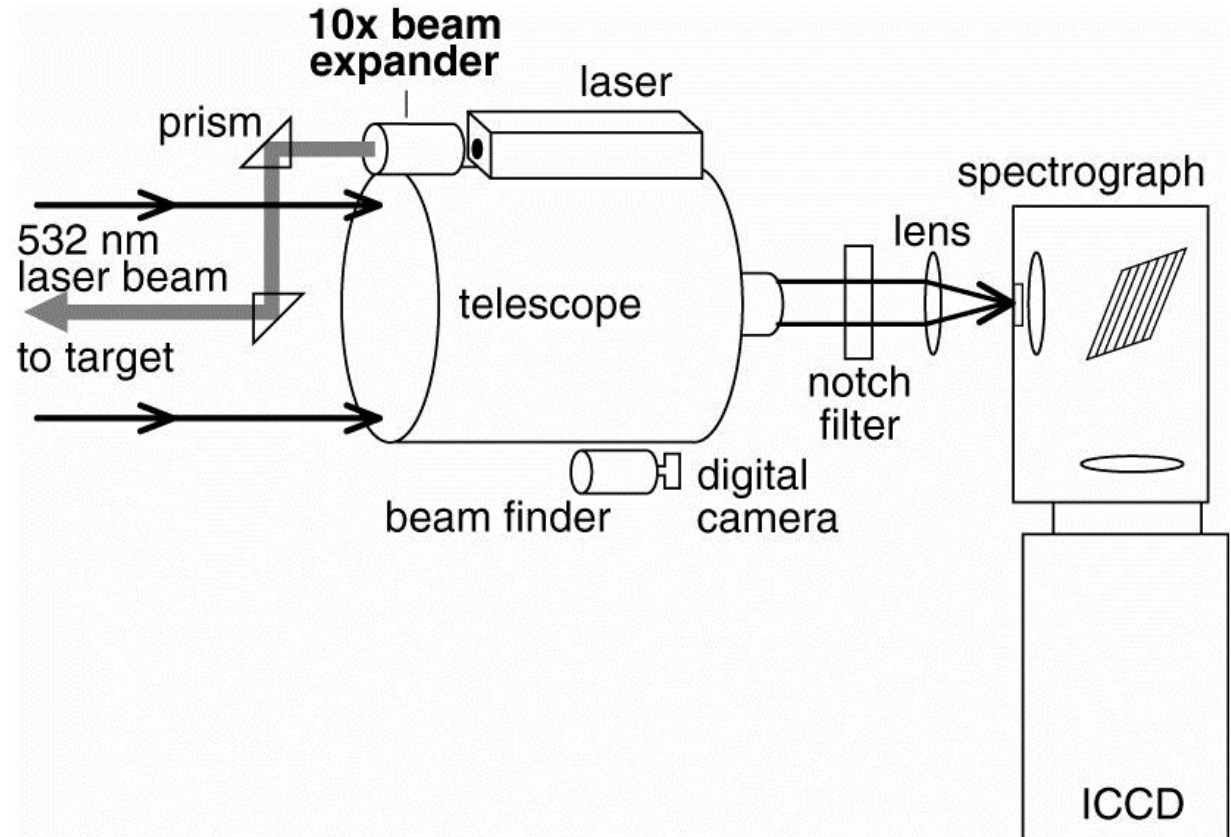


Schematics of Integrated Remote Raman and LIBS Instrument



Laser: pulsed Nd:YAG

- doubled to 532 nm
- 20 Hz rep rate
- 35 mJ/pulse

Telescope: Meade ETX-125

- 203 mm (8-inch) LX200R f/10 Advanced Ritchey-Chretien

CCD Detector: Intensified and gated with 1024x256 pixels and each pixel is $26 \times 26 \mu\text{m}^2$ (Princeton Instruments).