

| | AMOLITE | LMOL | TMTOL | TOPAZ | TROPOZ |
|------------------------------------|---|---|--|---|--|
| Laser type | Nd:YAG quadrupled | Ce:LiCAF tunable | Nd:YAG quadrupled | Ce:LiCAF tunable | Nd:YAG quadrupled |
| Laser wavelength (nm) | 266.0 | 280–298 | 266.0 | 285–310 | 266.0 |
| Laser rep. rate (Hz) | 20 | 1000/2 | 30 | 1000/3 | 50 |
| Power at DIAL wavelengths (W) | 0.9 | 0.075 | 1.1 | 0.03 | 0.8 |
| Pulse energy (mJ) | 45 | 0.15 | 40 | 0.05 | 15 |
| Raman cell | CO ₂ second and third Stokes | N/A | H ₂ first Stokes D ₂ first Stokes | N/A | H ₂ first Stokes D ₂ first Stokes |
| DIAL wavelengths during SCOOP (nm) | On: 287.2 Off: 299.1 | On: 287.1 Off: 292.7 | On: 288.9 Off: 299.1 | On: 286-287 Off: 293-294 | On: 288.9 Off: 299.1 |
| Direction of emission | Fixed zenith | Fixed zenith | Fixed zenith | Scanning 2° – zenith | Fixed zenith |
| Telescope size | 1 × 35 cm | 1 × 40 cm | 1 × 91 cm 2 × 5 cm | 1 × 50 cm | 1 × 45 cm 4 × 2.5 cm |
| Spectral separation | 2 × IF | 1 × SWP | 2 × SWP 4 × IF | N/A | 6 × IF |
| Detectors | 2 × PMT R7400U-03 | 1 × PMT R7400-U03 | 4 × PMT H5783P-06 | 2 × PMT HP9880-110 | 6 × PMT HP9880-110 |
| Data recorders | 2 × Licel TR ADC 12 bits PC 250 MHz | 1 × Licel TR ADC 12 bits PC 250 MHz | 4 × Licel TR ADC 16 bits PC 250 MHz | 2 × Licel TR ADC 16 bits PC 250 MHz | 6 × Licel TR ADC 12 bits PC 250 MHz |