

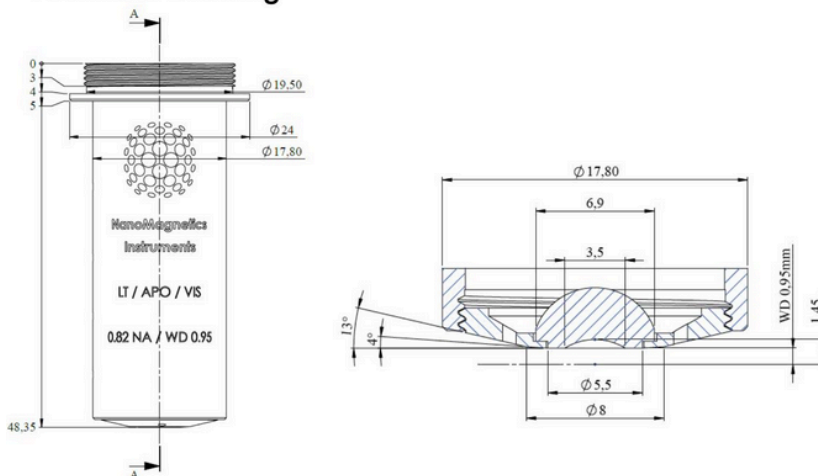
Low-Temperature APO Objective

Specifications

- Clear Aperture (CA): 4.7 mm
- Focal Length (FL): 2.8 mm
- Numerical Aperture (NA): 0.82
- Working Distance (WD): 0.95 mm (1.45 mm)
- AR coating (> 80% transmission):
 - VIS: 400 - 1,000 nm
 - NIR: 400 - 1,000 nm
 - IR: 600 - 1,550 nm
- Apochromatic Range ($\Delta f < +/-$):
 - VIS: 540-780 nm
 - NIR: 650 - 970 nm
 - IR: 985 - 1,350 nm
- Environment: Low temperature, high magnetic fields, high vacuum



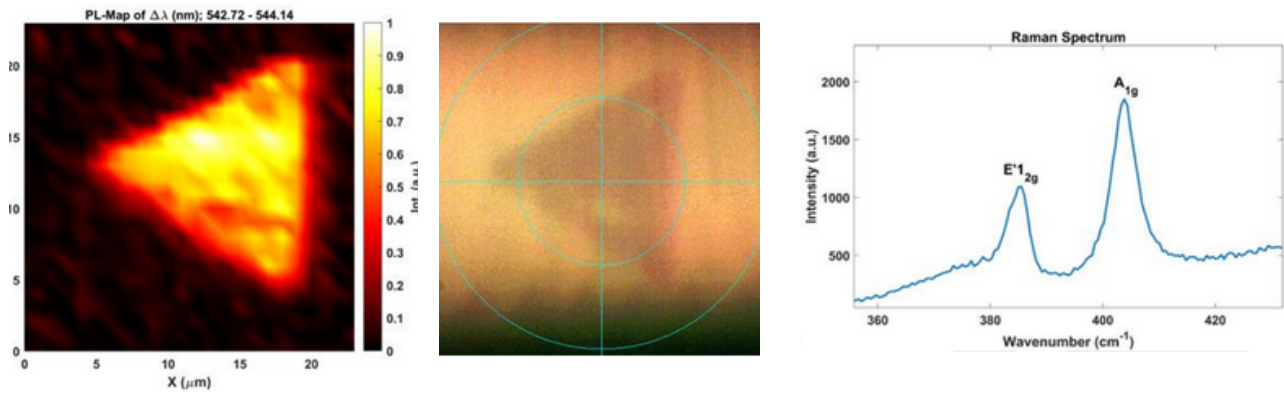
Technical Drawing



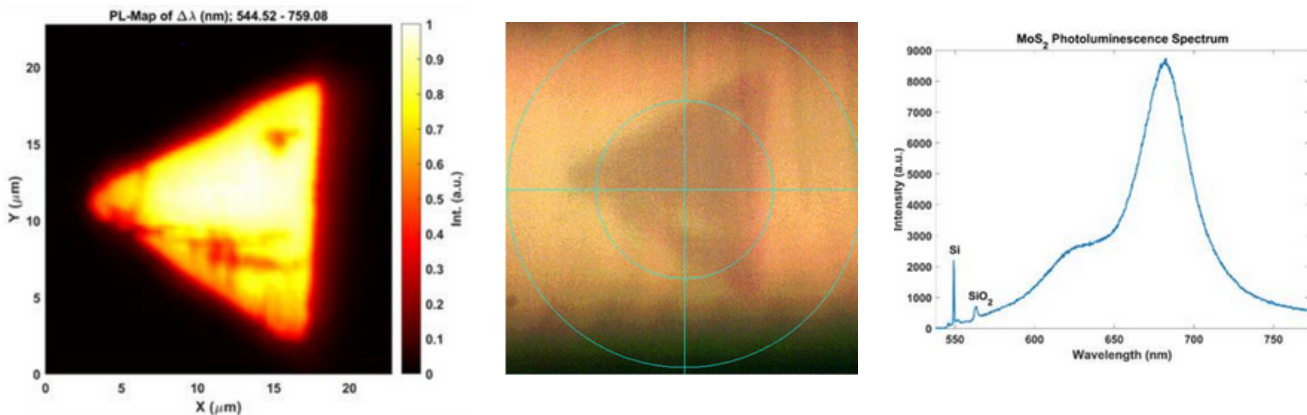
Low-Temperature APO Objective

Dimensions

- Diameter: 24 mm
- Length: 49 mm
- Weight: 46 g
- RMS Thread: (0.80" x 36 TPI 2 mm long)



Raman map (left), optical image (centre), and corresponding spectrum (right) of an MoS₂ flake



Photoluminescence map (left), optical image (centre), and corresponding spectrum (right) of an MoS₂ flake

* Data courtesy of Furkan Ađlarcı, ađlar Samaner, Serkan Ateř @ İzmir Institute of Technology, Turkey & Feridun Ay @ Eskiřehir Technical University, Turkey



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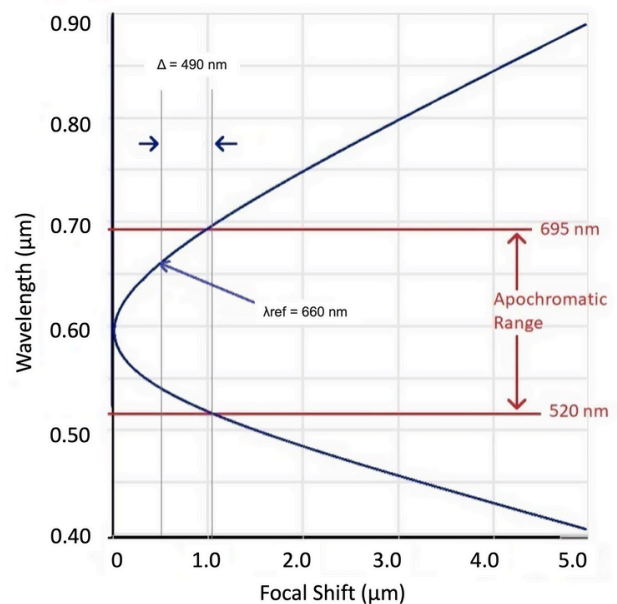
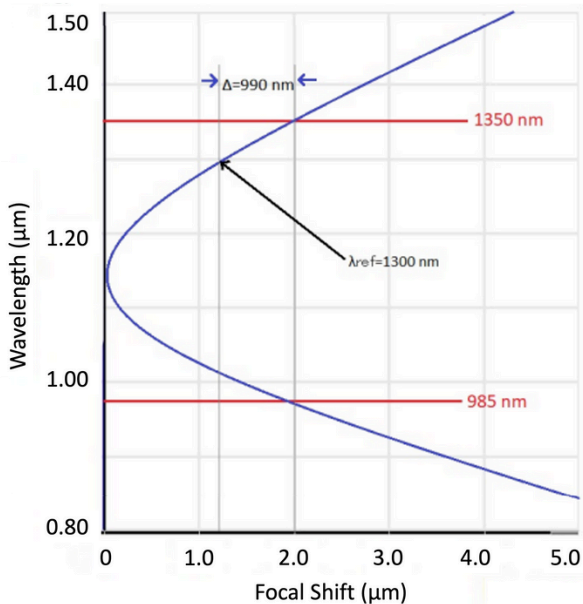
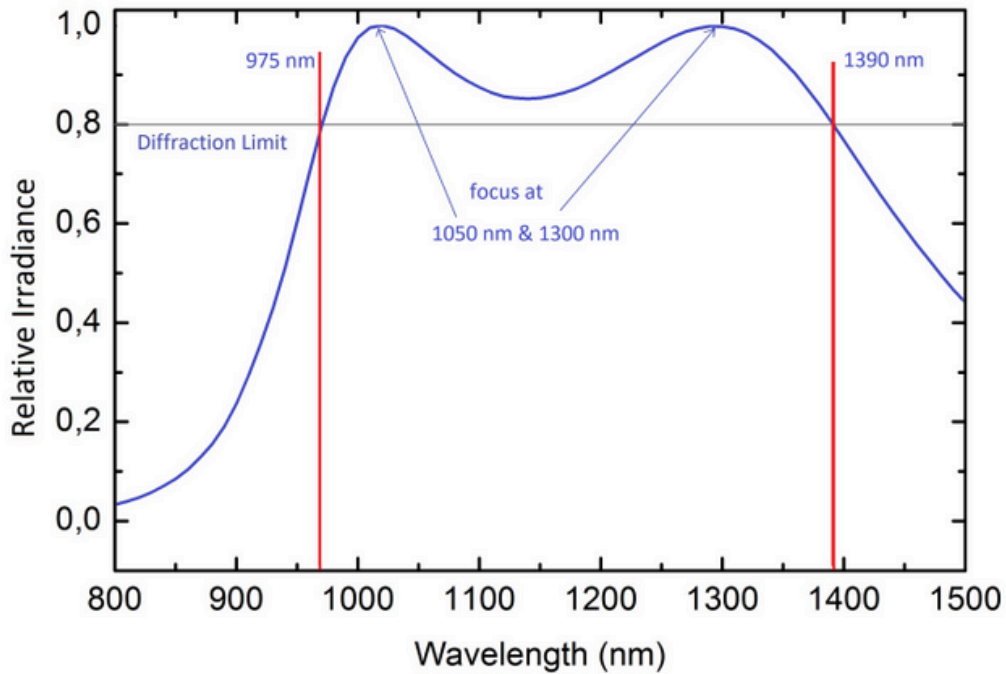
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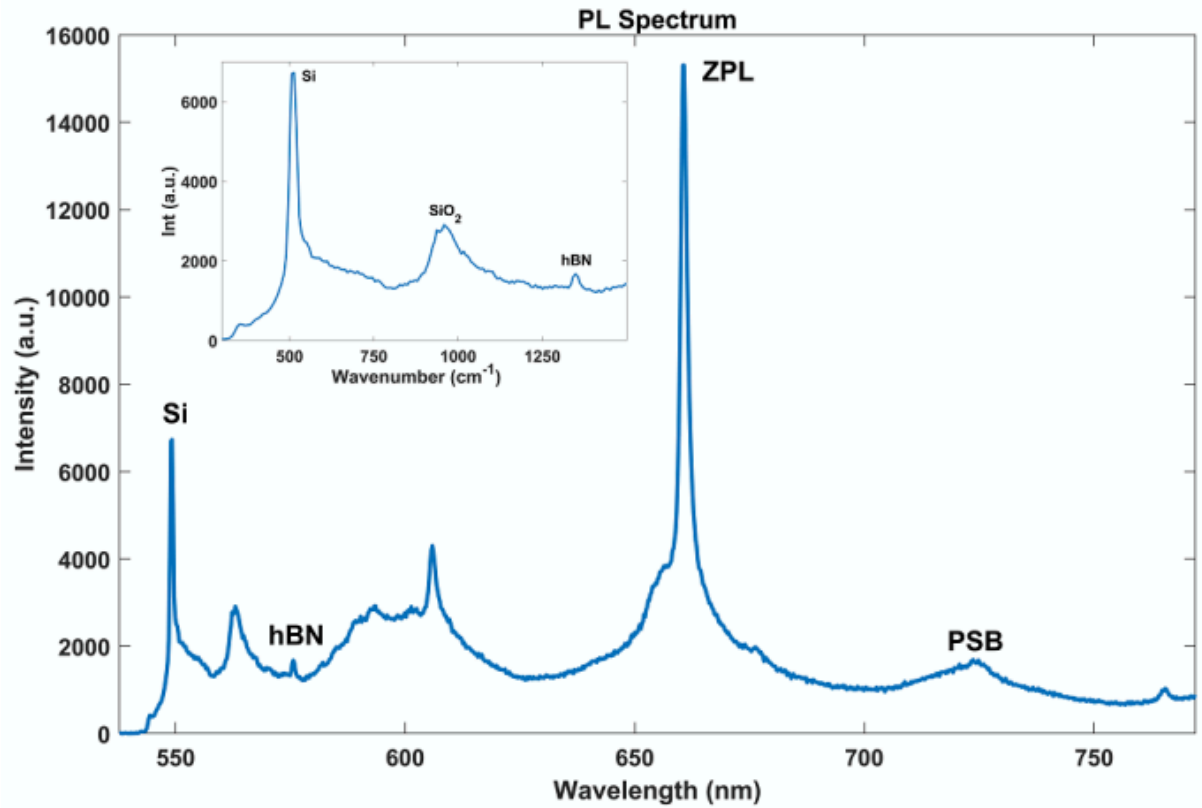
Low-Temperature APO Objective



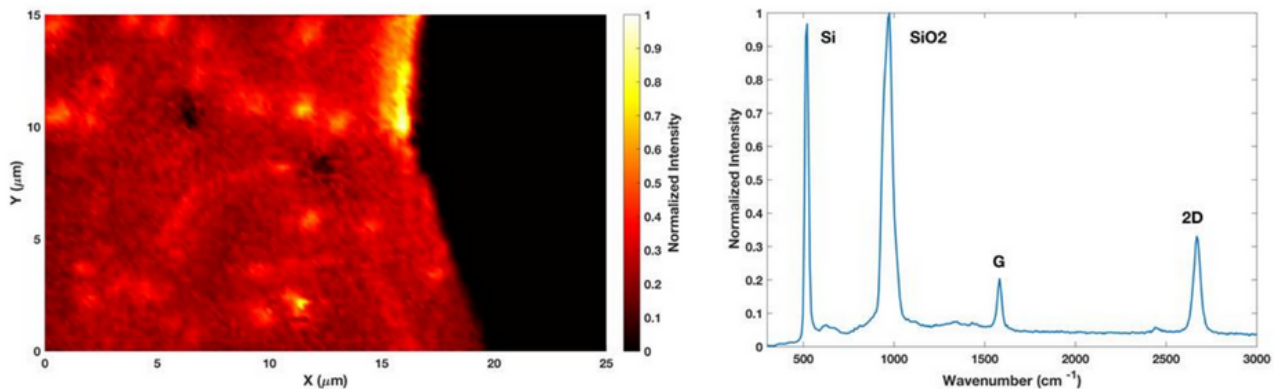
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Low-Temperature APO Objective



Photoluminescence and Raman spectrum (inset) of hBN



Raman Map and corresponding spectrum of single layer graphene on SiO₂

2

* Data courtesy of Furkan Ağlarıcı, Çağlar Samaner, Serkan Ateş @ İzmir Institute of Technology, Turkey & Feridun Ay @ Eskişehir Technical University, Turkey



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