

Interferometer Sources

Selecting the optimum source or sources for your application(s) is an important starting point when choosing an interferometer. With ÄPRE interferometers you can add sources at anytime to expand the range of applications possible with any one interferometer. This expandability means you are not limited by what applications any one interferometer can do.

This guide is has two selection tables: Applications and Cavity Lengths. Both are considered when selecting a source. Cavity length is the space between the interferometer reference surface (TF or TS) and the surfaces under test. See the "Key" and "How it Works" to use the tables.

Application Selection

Applications	HeNe	SML Laser Diode	Scanning Laser Diode	SCI
Surface: Flat/Sphere	⊙	⊙	⊙	⊙
Radius of Curvature	⊙	⊙	○	⊙
Windows/Filters/Etalon	△	△		⊙
Prisms	△	△		⊙
Domes				⊙
Homogeniety	○	○	○	⊙
Telescope Mirrors	⊙	⊙		
Aspheres with CGH	⊙			
Vibration Insensitive	⊙	⊙		
Fixed Cavity			⊙	⊙
>300 mm Flats	△	△	⊙	○
Micro-Optics				⊙

Cavity Length Selection

Cavity Lengths	HeNe	SML Laser Diode	Scanning Laser Diode	SCI
< 250 mm	⊙	⊙	⊙	⊙
250 mm to 2,000 mm	⊙	⊙	⊙	△
> 2000 mm	⊙	⊙		

Key



Best Choice



Acceptable Choice



Works with Difficulty

blank

Not Applicable

How it Works

- 1 Select the application in the Application Selection Table.
- 2 Find the source or sources that best meet that applications requirements.
- 3 Go to the Cavity Length Selection table.
- 4 Look at the cavity lengths for your application to confirm which source works in that range
- 5 Select the source to use

For more information or help selecting the right source for your applications:

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