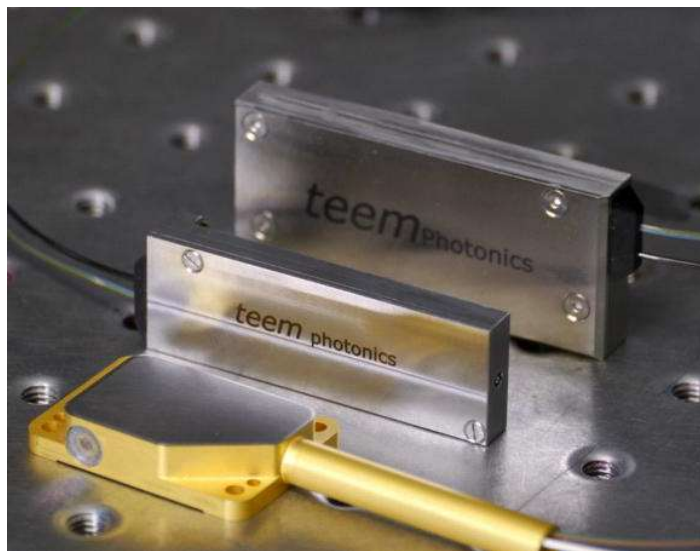


## Picomove Optical Head



With its **ioNext** technology on glass substrate, Teem Photonics offers a line of compact, environment-insensitive and high-resolution interferometers for the measurement of picometric displacements and vibrations.

The PicoMove interferometers are based on the monolithic integration of a Michelson-like architecture on a single chip, which provides intrinsically ultra-low noise measurements with a high degree of stability.

## Key Features

<b>Operating Wavelength</b>	<b>1530 – 1560 nm</b>
<b>Displacement Resolution</b>	<b>10 pm</b>
<b>Intrinsic Noise</b>	<b>&lt; 1pm/Hz<sup>1/2</sup> at 1Hz</b>
<b>Beam Divergence (half angle)</b>	<b>&lt; 6 mrad.</b>
<b>Interferences Contrast</b>	<b>&gt; 90 % <sup>(1)</sup></b>
<b>Measurement Type</b>	<b>Continuous displacement</b>
<b>I/O Optical Fibers</b>	<b>PM1550 / SMF28</b>
<b>I/O Optical Connectors</b>	<b>FC/APC</b>

(1) for a working distance < 20mm

## Configurations

- ▶ **PicoMove** : high resolution, highest stability
- ▶ **PicoMove-IS** : high resolution, compact and low optical path-length difference
- ▶ **PicoMove-UHV** : high resolution, ultra-compact and UHV environment compatible

## Applications

- ▶ **Measurement of sub-nm displacement**
- ▶ **High-precision position sensor**
- ▶ **High-precision vibration sensor**
- ▶ **High-precision refractive index measurement**