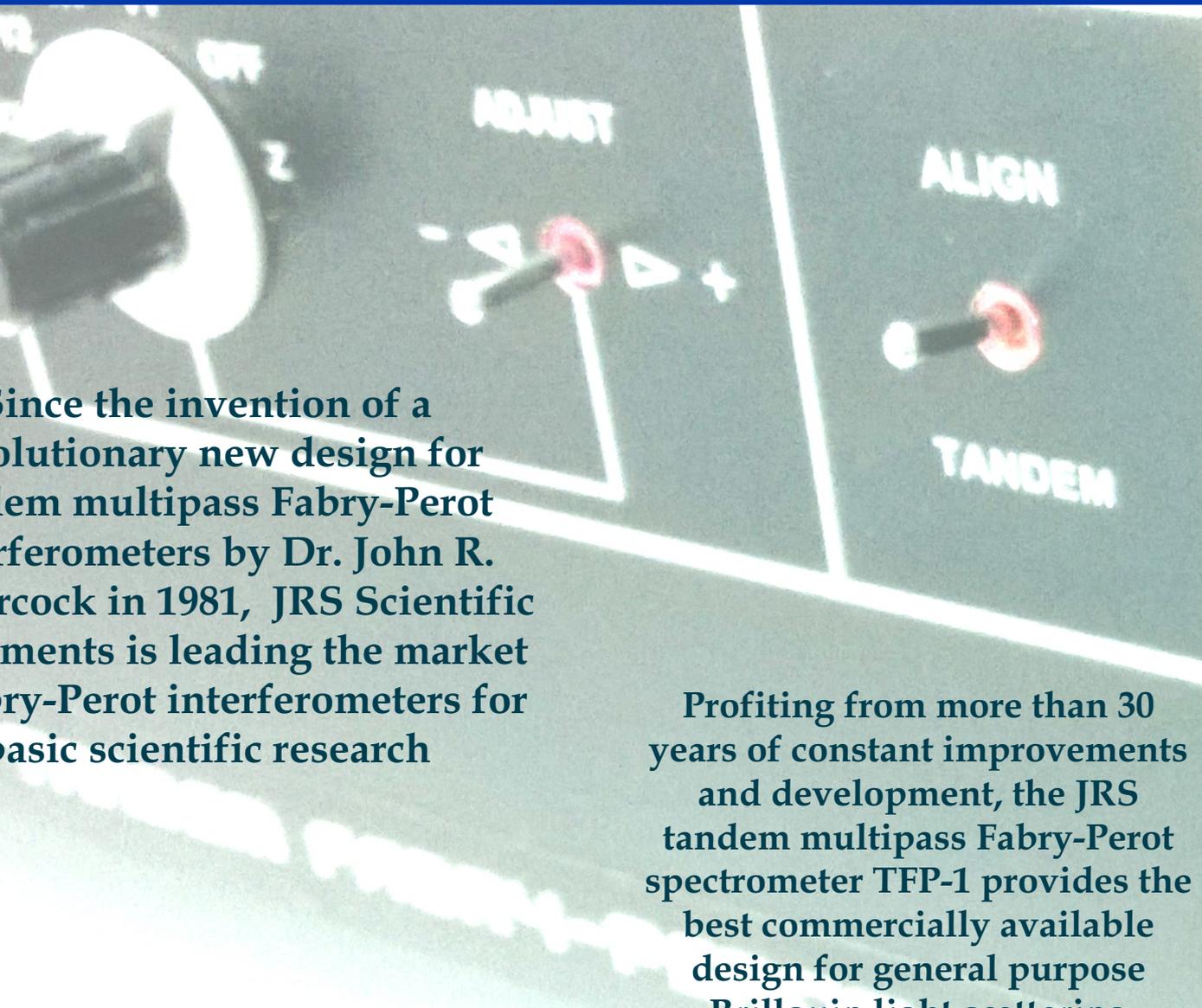


The Table Stable Ltd.

JRS INTERFEROMETRY PRODUCTS



Since the invention of a revolutionary new design for tandem multipass Fabry-Perot interferometers by Dr. John R. Sandercock in 1981, JRS Scientific Instruments is leading the market of Fabry-Perot interferometers for basic scientific research

Profiting from more than 30 years of constant improvements and development, the JRS tandem multipass Fabry-Perot spectrometer TFP-1 provides the best commercially available design for general purpose Brillouin light scattering measurements

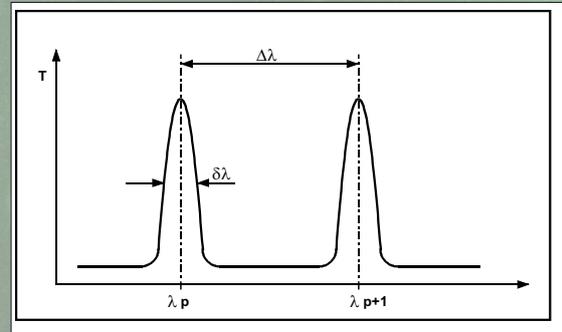
The recent development of the new extremely high contrast TFP-2 HC spectrometer is expected to be a breakthrough in measurement of very small intensity signals, not accessible by Fabry-Perot spectrometers up to now



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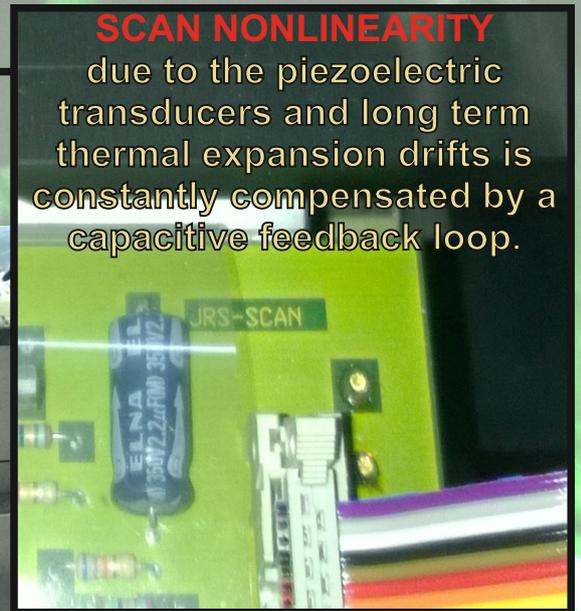
A Fabry-Perot interferometer (FP) is needed for high resolution (MHz to GHz) light spectroscopy. A FP consists of two very flat plane mirrors mounted accurately parallel to one another. A single FP behaves like a comb filter, transmitting a theoretically infinite set of wavelengths, spaced by a constant interval.



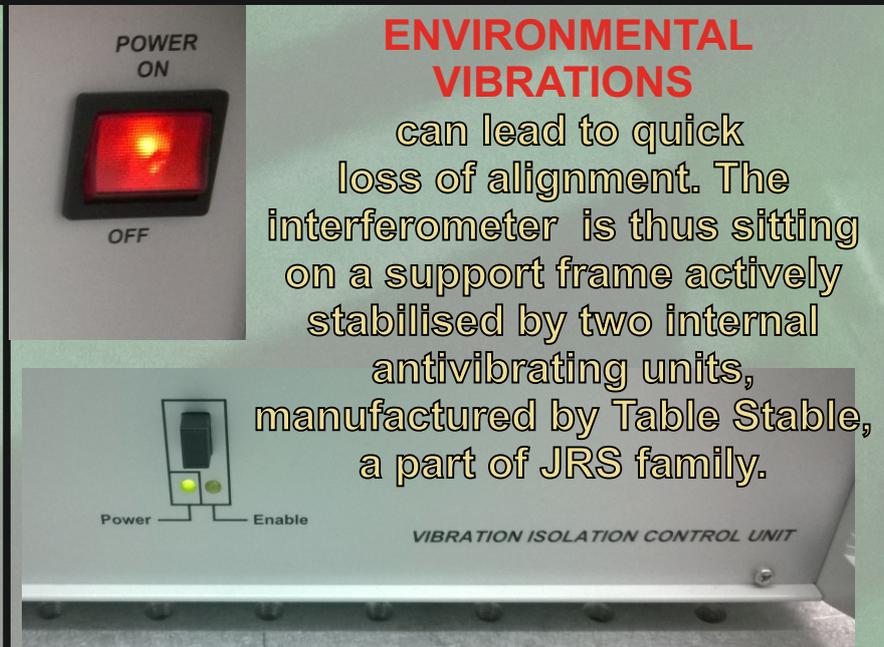
In order to increase the contrast and obtain a single line response, multipass tandem configuration can be used: the light passes several times between the mirrors of two different FP, each with a different mirror distance. JRS interferometers address all the most common troubles that affect this kind of instrumental construction.



LOSS OF PARALLELISM while scanning the system on the micrometric range or while changing the mirror spacing is reduced by using a compound stage, including a motorized positioner and a piezoelectrically activated deformable parallelogram.



SCAN NONLINEARITY due to the piezoelectric transducers and long term thermal expansion drifts is constantly compensated by a capacitive feedback loop.



ENVIRONMENTAL VIBRATIONS can lead to quick loss of alignment. The interferometer is thus sitting on a support frame actively stabilised by two internal antivibrating units, manufactured by Table Stable, a part of JRS family.



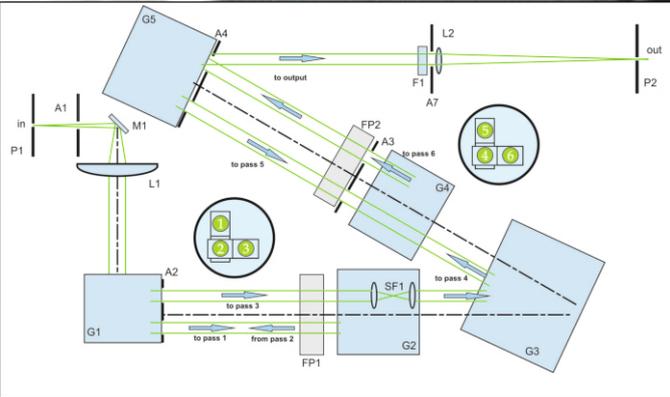


LONG TERM STABILITY
of the instrumental operation
is achieved by an automatic
electronic stabilisation loop



INITIAL PREALIGNMENT
of the instrument is easy and quick,
thanks to a specific configuration
provided

THE NEW TFP-2 HC INTERFEROMETER
enhances the instrumental contrast up to
at least a value of 10^{15} , by preventing
internal back-reflected light from
travelling through the instrument. This is
an unprecedented level of contrast, that
promises to enable signals to be seen
that were not detectable up to now.



AVAILABLE ACCESSORIES FOR THE TFP SERIES INTERFEROMETERS



CM-1 CONFOCAL MICROSCOPE

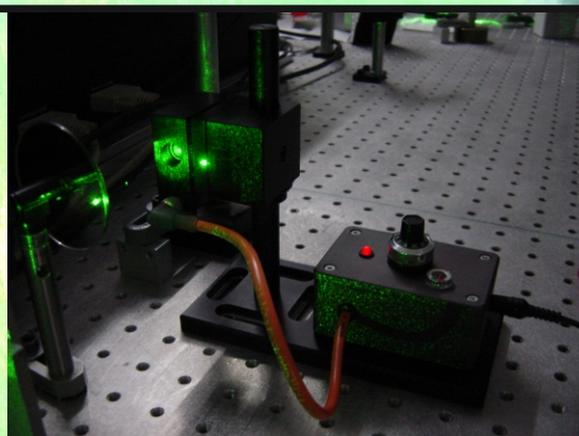
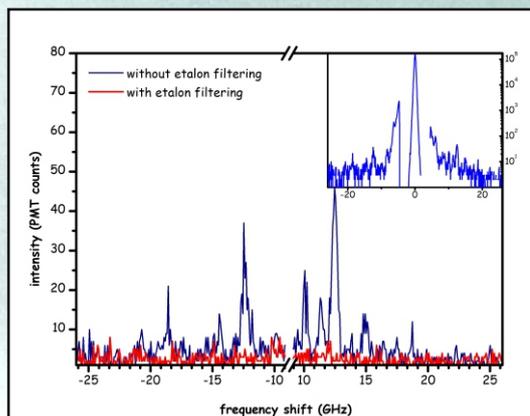
A plug-and-measure appendix which can be mounted to the interferometer input, in order to obtain a micro-spectroscopic setup.

provides :

- coaxial LED illumination
- two switchable magnification levels
- auxiliary measurement light input/output
- long working distance objective
- large sample space
- polarised/unpolarised/depolarised scattering selection

TCF-1 ETALON

A small autonomous temperature controlled etalon plate, easy to install and align, providing high suppression of spurious laser lines. Etalon plates available for the green (512-552 nm) and blue (440-480 nm) spectrum regions.



TCF-2 STABILISED ETALON

A small component, the stabiliser, is added to the TCF-1 providing long-term optimisation for temperature and laser wavelength drifts



CUSTOMISATION AVAILABLE ON REQUEST ! ASK US !



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