

TECHNOLOGY BRIEF

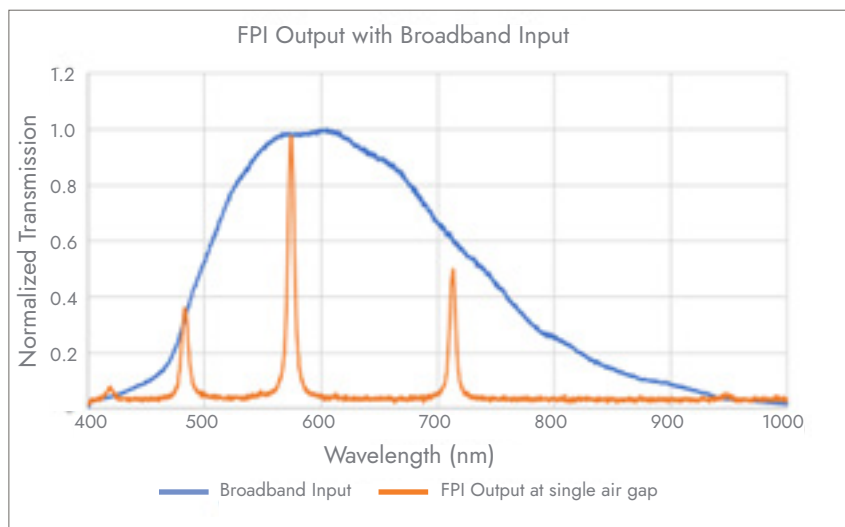
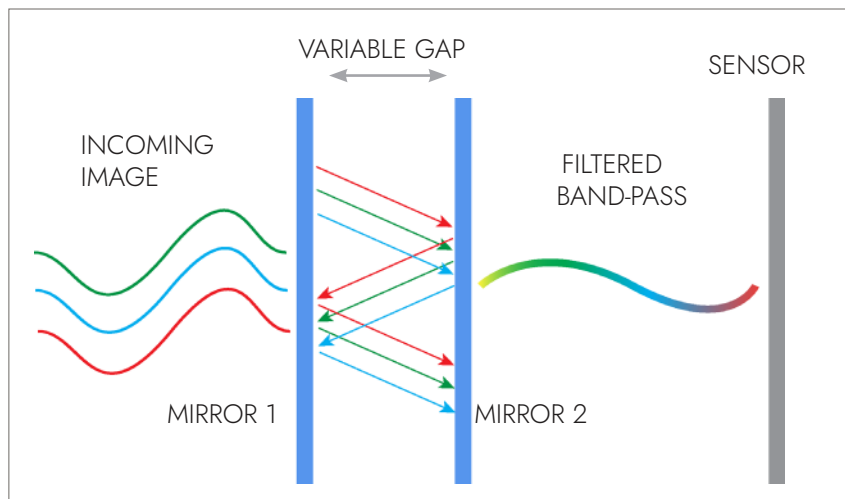


Fabry-Perot Interferometer (FPI)

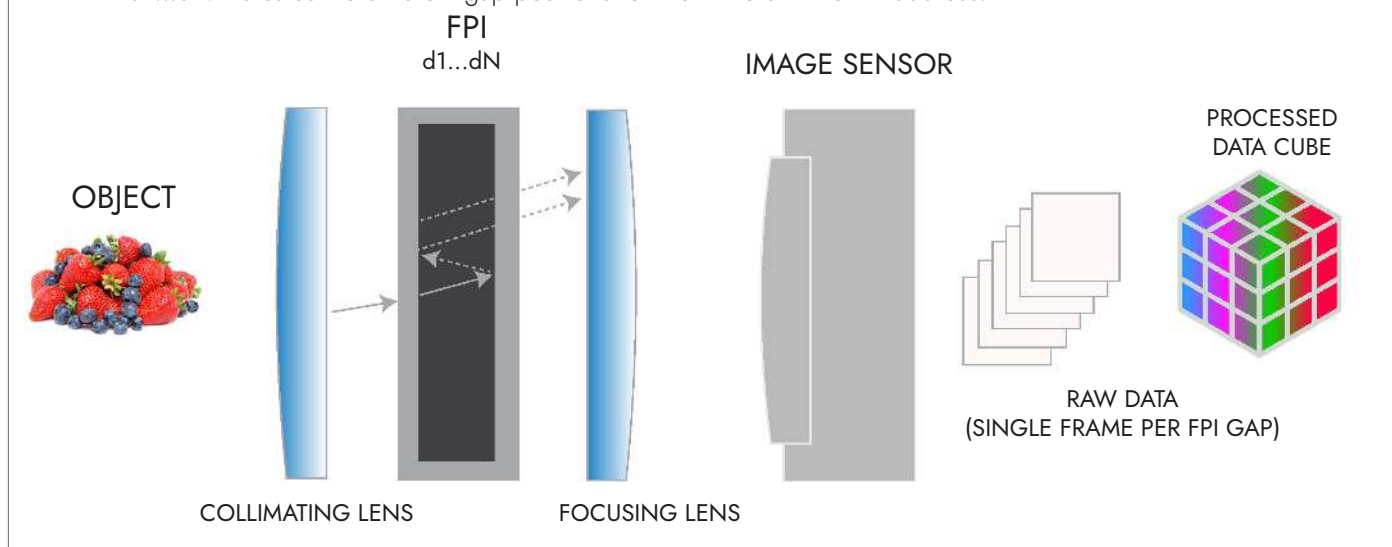
Several technical approaches exist to accomplish the management of light in hyperspectral imaging. They all have merit.

Hinlea uses the Fabry-Perot Interferometer (FPI) technology. FPIs comprise two mirrors parallel to each other, with a variable gap between them. By controlling mirror spacing, highly resolved spectral filtering can be achieved. The design of the mirror coating determines the spectral resolution and transmission.

FPIs can be made very compact and robust, leading to smaller and lighter cameras. Using an innovative proprietary multiple band pass method we can realize improvements in SNR, spectral range, and resolution. This is the case across the VNIR, UV, SWIR ranges and beyond. The process of converting multi-band pass intensity frame images into data-cubes is known as 'reconstruction.'



d1...dN indicates the different gap positions for the mirrors in the FPI address.



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