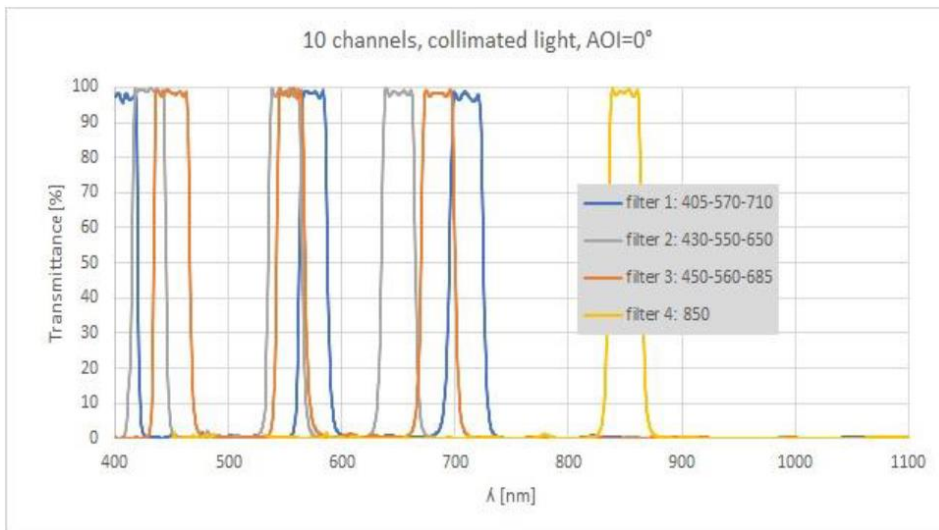


## xiSpec High-Resolution – project overview

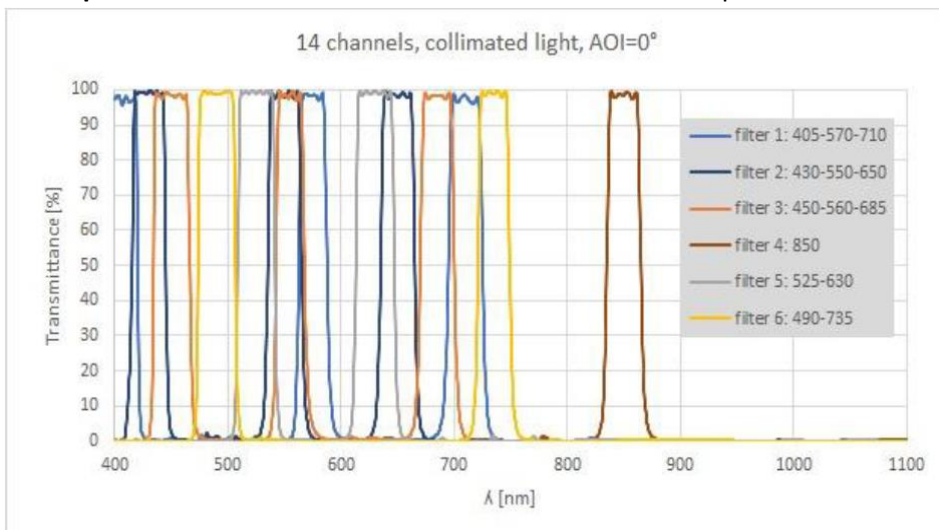
Agrowing manufactures multiple lenses systems with different spectral bands. Two lenses for full-size sensors are currently being considered for cooperation with XIMEA:



**Multispectral 10 version 2** with 4 lenses and 10 effective spectral bands:



**Multispectral 14 – version 1** with 6 lenses and 14 effective spectral bands:



XIMEA uses cameras from its xiB/xiB-64 or xiX camera series with large sensors and builds special housings to connect the Agrowing lenses.

In the VISION demo, a CB500CB-CM color camera is used.



The use of the cameras with the following sensors is investigated:

OSRAM/CMOSIS CMV50000	47.5 MPixel, 30 fps
GPIXEL GMAX3265	65.4 MPixel, 71 fps
SONY IMX455	61 MPixel, 3.9 fps

The result is very compact and lightweight, high-resolution multispectral system with effective resolutions up to about 12 MPixel at up to 14 bands.

The systems cover the wavelength range of approx. 390 870 nm and can therefore be used for a wide range of applications, e.g. precise agriculture and surveillance. The main usage is likely to be remote sensing on flying platforms such as drones and aircraft.

The systems can be directly combined with small high performance embedded computers and are thus able to provide directly calculated results in real time.



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