

## ***Interactive comment on “Adaption of an array spectroradiometer for total ozone column retrieval using direct solar irradiance measurements in the UV spectral range” by Ralf Zuber et al.***

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The anonymous referee had the comment “4: Section 2: What set of optical filters is in the system. Exactly the same ones as described in Shaw et al., 2008?” and the authors replied “We think it is beyond the scope of the paper to provide the technical details of each filter. However we provide basic information about the filters.”

I agree with the referee that more information on the filters should be provided and do not feel that enough “basic information about the filters” is included in the manuscript.

Currently, the manuscript only provides the following information:

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Discussion paper



P2, L15: “In the device one longpass filter and four interference filters with different wavelength ranges are integrated.”

and

P5, L13: “Here, several narrow bandpass filters are used in the spectral range between 280 nm and 420 nm.”

The authors should specify the center wavelength and bandwidth of each narrow bandpass filter (an additional figure with the filters’ transmission functions would also be helpful) and describe how the corrected spectrum is obtained from measurements using each of these filters. The novelty of the instrument is its stray light correction scheme and the manuscript should therefore describe how this algorithm works, both in terms of hardware and data processing. I don’t consider this “technical details “ that are “beyond the scope of the paper”.

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[Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2017-240, 2017.](#)

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