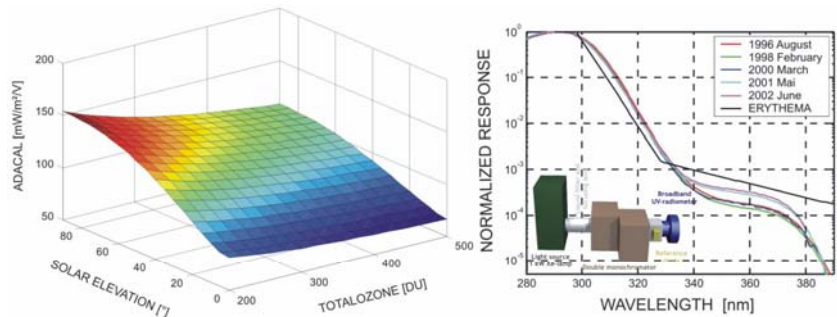


Precision is
our business



APPLICATION

The Company CMS is carrying out calibrations of broadband detectors. Generally, for the calibration of such broadband detectors, two steps are necessary: determination of the relative spectral response and absolute calibration.

To measure the relative spectral response of a detector, a double-monochromator with high spectral purity of the output signal and a high dynamic range of better 10⁵ and a spectral bandwidth of ±2 nm is used as spectral light source.

The absolute calibration is carried out with solar measurements, where the broadband meter is operated simultaneously with a well calibrated double-monochromator spectroradiometer for several days.

Thus the final calibration of a broadband detector is not a single number, but a matrix of factors, depending on solar zenith angle and total ozone, which has to be applied to the raw data.

SPECIFICATION

Specified Wavelength	255 nm up to 455 nm
Light Source	double-monochromator
Spectral Bandwidth	±2 nm (±0.95 nm, adjustable)
Dynamic Range	> 10 ⁵
Absolute Traceability	high quality double monochromator traceable to PTB (Physikalisch Technische Bundesanstalt, Braunschweig, Germany) Standards

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