



Spectro-radiometer, mobile

Measured values

- spectral reflectivity
- spectral radiance

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This handout, and cross-references to related measurement techniques and facilities are available at: <http://messtec.dlr.de/link-81-en>.

Description of facility

Several mobile/field spectrometers located at DLR's premises Oberpfaffenhofen (type: ASD FieldSpec Pro FR, ASD Personal Spectrometer II, etc.)

- spectral range: 0.3 - 2.5 μm
- spectral channels: 500 ... 700
- spectral bandwidth: 1.5 ... 10 nm
- radiometric resolution: 16 Bit

For the infrared spectral range (FT spectrometer D&P Model 102):

- spectral range: 625 - 5000 cm^{-1} (2 - 16 μm)
- spectral resolution: 6 cm^{-1}
- radiometric resolution: 16 Bit

Application

spectral reflectance of surfaces (vegetation, soil, natural and artificial objects) in the VIS/NIR spectral range.

For IR systems: spectral radiance + derived parameters (brightness temperature, spectral emissivity)

Literature / References

- <http://www.asdi.com/>
- <http://www.ger.com/ground.html>
- <http://www.dpinstruments.com/>

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