

Calibration Facility for multi-/hyperspectral Imagers (CHB (Calibration Home Base))

Measured values

- Radiometric sensitivity (spectral radiance)
- Spatial resolution
- Spectral resolution
- Spectral sensitivity

Description of facility

The Calibration Home Base (CHB) is a unique facility located at DLR Oberpfaffenhofen that is dedicated to perform laboratory measurements of airborne optical sensors and hyperspectral field instruments in a wide spectral range from 380 nm to 2500 nm. A folding mirror design facilitates geometric and spectral measurements of heavy instruments up to 350 kg. The CHB was partly funded by ESA to establish a calibration facility for the airborne imaging spectrometer APEX, but it is used for other optical sensors as well.

CHB is accessible to customers. DLR provides the laboratory equipment required for calibration measurements. Trained staff is available to adapt the customer's instrument mechanically to CHB, set-up its communication with CHB Master software, operate CHB hardware and software, assist the measurements, and support in data interpretation.

Application

Characterisation/calibration of geometric, spectral, and radiometric parameters of optical systems (focus on multi-/hyperspectral imagers).

Literature / References

- http://www.opairs.aero/chb_en.html
- <http://elib.dlr.de/59470/>

Documents

- Calibration Home Base (Flyer)

Contact

- Karim Lenhard, DLR Remote Sensing Technology Institute, Tel: +49 8153 28 2702, Fax: +49 8153 28 1337
- Dr.-Ing. Alexander Born, Technology Marketing, Tel: +49 30 67055 155, Fax: +49 30 67055 170
- Robert Klarner, Technology Marketing, Tel: +49 8153 28 1782, Fax: +49 8153 28 1780

Download of documents, this handout, and cross-references to related measurement techniques and facilities are available at: <http://messtec.dlr.de/link-320-en>.

Measurements on the hyperspectral instrument ROSIS in the laboratory

