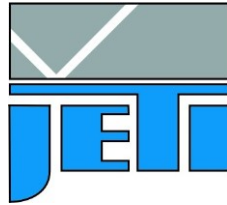


## Technical Note 15



JETI Technische Instrumente GmbH  
 Göschwitzer Straße 48  
 D - 07745 Jena  
 Germany  
 Tel. : +49 3641 23292 00  
 Fax : +49 3641 23292 01  
 e-mail : sales@jeti.com  
 Internet: www.jeti.com

### specbos 1211 vs. specbos 1201

This application note contains a comparison of the new JETI broadband spectroradiometer specbos 1211 with the proved VIS instrument specbos 1201.

Both instruments are designed according to the same principle – measuring head for radiometric measurements, spectrometer, processor board, interface to PC and software. specbos 1201 and 1211 can be operated with the same software as well as with same DLLs, Vis for LabView and firmware commands. Therefore, it is possible to replace specbos 1201 by specbos 1211 easily and without any effort.

The main differences are the extended wavelengths range and the increased sensitivity of specbos 1211. The following table gives some more specific information:

| Feature                                       | specbos 1211   | specbos 1201  |
|---|--|---|
| Wavelengths range                             | 350 (250) ... 1000 nm  | 380 ... 780 nm  |
| Optical resolution (FWHM)                     | 4.5 nm   | 5 nm  |
| Measuring range luminance                     | 0.1 ... 2500 cd/m <sup>2</sup> (higher values with optional filter)  | 2 ... 70 000 cd/m <sup>2</sup>  |
| Measuring range illuminance                   | 2 ... 20 000 lx (higher values with optional more dense diffusor)  | 20 ... 500 000 lx   |
| Measuring time (gray scales of a LCD monitor) | approx. 0.3 s at 100 cd/m <sup>2</sup><br>approx. 2 s at 5 cd/m <sup>2</sup>   | approx. 2.5 s at 100 cd/m <sup>2</sup><br>approx. 30 s at 5 cd/m <sup>2</sup>   |
| Interface                                     | USB, Bluetooth, LAN  | USB   |
| Software                                      | Radiometric software LiVal<br>RGB software MoDiCal   | Radiometric software LiVal  |
| Power supply                                  | USB, RS 232, Battery, 9V-power supply  | USB   |
| Weight  | 450g   | 350g  |
| Dimensions                                    | 180 mm x 82 mm x 53 mm   | 140 mm x 60 mm x 34 mm  |
| Typical applications                          | <ul style="list-style-type: none"> <li>• Color calibration of monitors</li> <li>• Measurement of cellular phone and other displays</li> <li>• Measurement of fluorescence tubes and exciting radiation</li> <li>• Weighted measurement of harmful radiation</li> </ul> | <ul style="list-style-type: none"> <li>• Color calibration of cinemas</li> <li>• Light measurement of luminaires</li> <li>• Light measurement in architecture</li> <li>• Measurement of flashing sources</li> </ul> |