

## UV-Visible/NIR Spectrophotometer UH4150AD

We have released the UH4150AD spectrophotometer as an enhanced version of our popular UH4150 spectrophotometer. The UH4150AD is customized for high-absorption, ultra-low-transmission measurements. This instrument may be used for characterization and quality control of optical films for band-pass filters and cutoff filters.

### Main features

- (1) Allows measurements of ultra-low transmission/high-absorption over a wide spectral range of 8 Abs (UV/visible regions).  
The use of a new grating-grating double monochromator reduces stray light in the spectrometer, resulting in a high photometric range (8 Abs) in the UV-Vis.
- (2) Parallel beams allow high-precision measurements of specular reflection.<sup>\*1</sup>  
By installing an integrating sphere on the UH4150AD, parallel-beam measurements similar to those available on the current model<sup>\*2</sup> become possible. In particular, the use of parallel beams ensures that the incident angle is essentially uniform across the sample, allowing high-precision measurements of specular reflection.
- (3) The UH4150AD sample chamber adopts the same structure as that of the sample chamber of the current model.<sup>\*2</sup>  
The UH4150AD sample chamber was designed to adopt the same structure as the sample chamber on the current model; this sample chamber was popular among users for the ease with which it allowed large samples to be positioned and the extendibility afforded by its vast range of accessories.

\*1: With integrating sphere installed

\*2: The UH4150 spectrophotometer



The UH4150AD spectrophotometer