### Specifications for UV/VIS-NIR Spectrophotometer ((PR No.1000011057))

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| **UV/VIS-NIR Spectrophotometer**  | • Light Source: Deuterium lamp & Halogen lamp  
• Wavelength range: 190 to 2700 nm (3200 nm, option)  
• Scanning speed: 10–4000 nm/min  
• Slew speed minimum: 12,000 nm/min (UV-Vis region)  
48,000 nm/min (NIR region)  
• Spectral bandwidth: 0.1, 0.2, 0.5, 1, 2, 5, 10 nm (UV-Vis region)  
0.4, 0.8, 1, 2, 4, 8, 20, 40 nm (NIR region)  
• Photometric range: 0 to 10000 %T  
-3 to 4 Abs (UV-VIS region)  
-3 to 3 Abs (NIR region)  
• Detector: Photomultiplier tube, Peltier cooled PbS |
| **Integrating Sphere**            | • Minimum diameter of inside Integrating sphere: 60 mmφ  
• Incident angle to reflection surface: 0°, approx. 5°  
• Min. sample size (reflection): 20(H)×20(W)×0.5(t)mm  
• Max. sample size (reflection): 65(H)×50(W)×25(t)mm  
• Wavelength range: at least 200 - 2500nm |
| **Spectra Manager**               | • Measurement modes:  
Wavelength scan (Abs, %T, %R, Sample, Reference)  
Time scan (Abs, %T, %R, Sample, Reference)  
Fixed wavelength (Up to 8 wavelengths) Abs/%T monitor  
• Data processing:  
Peak picking, Peak height, Peak area, Peak width, Derivatives,  
Smoothing, Data truncation, Arithmetic, Baseline correction, Subtraction,  
Deconvolution, Vertical axis conversion, horizontal axis conversion  
• Other standard functions: Film thickness measurement |
| **Laptop (HP)**                   | • Processor: 7th Gen Intel Core i5-7200U processor, 2.5GHz base processor speed  
• Operating System: Windows 10 Home  
• Display: 15.6-inch FHD (1920x1080) display  
• Memory & Storage: 8GB DDR4 RAM with Intel HD 620 Graphics | Storage: 1TB HDD  
• Design & battery: Laptop weight: 2.2 kg | Lithium battery |