



V-700 series optional accessories

UV/Vis/NIR Spectrophotometers



DOMINIQUE DUTSCHER SAS

Absolute reflectance measurement accessory

ARV-913/ARN-914/ARN-915i
ARSV-916/ARSN-917/ARSN-918i

ARMV-919/ARMN-920/ARMN-921i



The ARV and ARN accessories provide absolute reflectance measurements of samples by the manual, synchronous movement of the sample stage and detector. Changing the incident angle of the sample by manually moving the detector position, the absolute reflectance of the sample can be measured at varied incident angles. The ARSV and ARSN accessories provide an asynchronous movement of the sample stage and detector, thus, the positions of the sample stage and detector can be independently varied to obtain the absolute reflectance and transmittance spectra of the sample at varied incident and detection angles. Using the optional polarizers, the polarization properties of the sample can also be examined.



The ARMV and ARMN automate the absolute reflectance measurements of specularly reflecting samples such as metal or glass samples. The detector is equipped with an integrating sphere and thus it also permits measurement of the relative reflectance of a diffusely reflecting sample. Since the angles of the sample stage and the detector can be changed independently, the absolute reflectance and transmittance of a sample can be measured with varied angles of incidence. A software controlled polarizer is provided as standard for the examination of the polarization properties of a sample. In addition to S and P polarized lights, N polarized light that obtains the same measurement results as non-polarized light is available.

Specifications:

Model name	ARV-913	ARN-914	ARN-915i	ARSV-916	ARSN-917	ARSN-918i	ARMV-919	ARMN-920	ARMN-921i
Main Unit	V-750/760	V-770	V-780	V-750/760	V-770	V-780	V-750/760	V-770	V-780
Wavelength range	250 ~ 850 nm	250 ~ 2,000 nm	250 ~ 1,600 nm	250 ~ 850 nm	250 ~ 2,000 nm	250 ~ 1,600 nm	250 ~ 850 nm	250 ~ 2,000 nm	250 ~ 1,600 nm
Movement of sample stage and detector	Synchronous			Asynchronous					
Control of sample stage and detector	Manual						Automated		
Measurement mode	Absolute reflectance Relative reflectance			Absolute reflectance Relative reflectance Transmittance					
Integrating sphere	60 mm diam.								
Incidence angle	Absolute reflectance mode: 5 ° to 60 ° Relative reflectance mode: Vertical incidence								
	Transmittance mode: 0 ° to 60 °								
Angle setting	2.5° step (manual)			Sample stage: 0.1° step (manual) Detector stage: 1° step (manual)			0.1° step automatic		
Sample size	Absolute reflectance mode: Minimum			20(H) x 20(W) x 1(T) mm			20(H) x 20(W) x 1(T) mm		
	Absolute reflectance mode: Maximum			70(H) x 100(W) x 10(T) mm			70(H) x 70(W) x 10(T) mm		
	Relative reflectance mode: Minimum			20(H) x 20(W) x 0.5(T) mm			20(H) x 20(W) x 0.5(T) mm		
	Relative reflectance mode: Maximum			70(H) x 100(W) x 10(T) mm			70(H) x 70(W) x 10(T) mm		
Accuracy	±1.5% at incidence angle of 6 °								
100% line flatness	Within ±1%								
Polarizer	OptionS						standard		
Standard software	N/A						Absolute reflectance spectral measurement, Interval analysis		

Options

SSH-508 Solid sample holder

The SSH-508 is set on the entrance to the detector for diffuse transmittance measurements of scattering samples at a vertical (0°) incidence.

Specifications:

Minimum sample size: 30(H) x 30(W) x 0.5(T) mm
 Maximum sample size: 70(H) x 80(W) x 10(T) mm

Wide incident angle sample holder

This sample holder is attached to the sample stage to allow an angle of incidence up to a maximum of 85°.

Specifications:

Minimum sample size: 30(H) x 60(W) x 1(T) mm (ARV/ARN)
 30(H) x 30(W) x 1(T) mm (ARSV/ARSN/ARMV/ARMN)
 Maximum sample size: 70(H) x 100(W) x 10 (T) mm
 Incidence angle: 0 - 85 °

PDU-755 Phase difference measurement unit

The PDU-755 option provides the measurement of the reflectance phase difference and the transmittance phase difference. It consists of an angle selective analyzer and the VWAP-794 phase difference measurement program.

Specifications:

Wavelength range:
 250 - 850nm (ARV-913/ARSV-916/ARMV-919)
 250 - 2000nm (ARN-914/ARSN-917/ARMN-920)
 250 - 1600nm (ARN-915i/ARSN-918i/ARMN-921i)
 Polarization rotation angle: 0 - 90°



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