



V-700 series optional accessories

UV/Vis/NIR Spectrophotometers



Wide range of optional accessories

The V-700 Series can be integrated with a complement of more than 70 accessories to offer flexible configurations for a wide variety of analytical requirements. Experimental capabilities range from simple educational applications and routine daily use, to specific applications for advanced biochemical and semiconductor research. The range of accessories include various types of cell holders for liquid samples and options for a wide variety of solid samples.

Cell holders/cell changers used at ambient temperature

LSE-701 Long path cell holder



Specifications:

Compatible cell: Rectangular cell, pathlength 10, 20, 50 or 100mm, 1Pc.
Reference : Rectangular cell, pathlength 10, 20, 50 or 100mm, 1Pc.

FSE-702 4-position manual long path cell changer



Specifications:

Compatible cell: Rectangular cell, pathlength 10, 20, 50 or 100mm, 4Pc.
Reference : Rectangular cell, pathlength 10, 20, 50 or 100mm, 1Pc.

SSE-704 6-position manual cell changer



Specifications:

Compatible cell: Rectangular cell, pathlength 10mm, 6Pc.
Reference : Rectangular cell, pathlength 10mm, 1Pc.

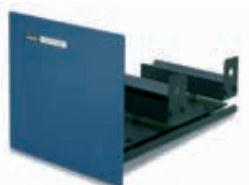
NCP-705 6-position manual cell changer



Specifications:

Compatible cell: Rectangular cell, pathlength 10mm, 6Pc.
Reference : Rectangular cell, pathlength 10mm, 1Pc.
Cell switching : Software controlled

CYH-708 Cylindrical cell changer



Specifications:

Compatible cell: Cylindrical cell, pathlength 10, 20, 50 or 100mm, 1Pc.
Reference : Cylindrical cell, pathlength 10, 20, 50 or 100mm, 1Pc.

Micro, Ultra-micro cell holders

UCB-710 Cylindrical cell changer

Micro cell



This is the standard cell holder for the V-730BIO. A cell height adjustment function provides the ability to use a 100µL micro cell. A mask for a 100µL micro cell is standard.

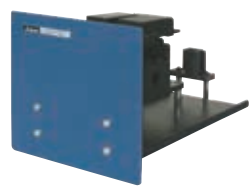
Specifications:

Compatible cell: Rectangular cell, 10 x 10, 20, 50 or 100 mm, 1 pc.

Option

50µL micro cell mask

SAH-769 One drop accessory

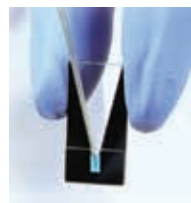


The SAH-769 One Drop accessory is a dedicated accessory for the V-600 Series to measure micro-volume samples of protein and nucleic acid.

1 mm pathlength, minimum sample volume: 5µl
0.2 mm pathlength, minimum sample volume: 0.6µl

EMC-759 Ultra-micro cell holder

V-730/730BIO



5µL micro cell

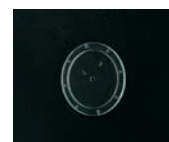
TCH-703 8-position Micro turret cell holder

V-730/730BIO



This is a cell holder for an optional 8-position turret micro cell, containing eight cells with a volume of approximately 4 uL arranged in a circle.

8-position micro turret cell (P/N: 6916-4822A)



EMC-709 Micro cell holder



The EMC-709 is a cell holder for a 50 uL micro cell. A 5 uL micro cell can be used with an optional spacer.



50µL micro cell



5µL micro cell
5µL micro cell spacer

Constant temperature cell holders/cell changers

The following cell holder accessories can be used with water circulators for maintaining samples at a uniform temperature. The circulators available separately.

STR-773 Water thermostatted cell holder with stirrer

Micro cell



Specifications:

Compatible cell:
Rectangular cell
10 x 10 or 4 x 10mm, 1 pc.
Temperature control:
Thermostatted water circulation for sample and reference
Operating temperature:
10 to 90°C

Stirring system:
Integrated variable speed magnetic stirrer
2 mm path width micro cell cannot be used with the stirrer.

MHT-745 Manual 4-position water thermostatted turret cell holder

Micro cell



Specifications:

Compatible cell:
Rectangular cell
10 x 10 or 4 x 10mm, 4 pc.
10 x 10 or 4 x 10mm, 1 pc. (Reference)

Temperature control:
Thermostatted water circulation for sample and reference

Operating temperature:
10 to 90°C

CSP-909 Manual 4-position water thermostatted turret cell holder



When monitoring a substrate-enzyme reaction, this accessory allows addition of an enzyme solution without opening the sample chamber lid. Can only be used with a 10 x 10 rectangular cell. Required needle length for the syringe is 2 inches (50 mm).

Compatible cell holder:
STR-733, EHCS-760, ETCS-761, ETCR-762

HMC-711 Water thermostatted cell holder with stirrer

Micro cell



Minimum sample volume is 50 uL by using a rectangular cell, 5mm path length and 2 mm path width.

Specifications:

Compatible cell:
Rectangular cell
10 x 10 or 5, 2 or 4 x 10, 2x5 mm, 1 pc.
Temperature control:
Thermostatted water circulation for sample and reference
Operating temperature: 10 to 90°C
Cell masks (standard):
Mask for 100 uL cell (2 pcs.) for micro cell, 2 x 10
Mask for 200 uL cell (2 pcs.) for micro cell, 4 x 10

NCP-706 Water thermostatted 6-position automatic cell changer

Micro cell



Specifications:

Compatible cell:
Rectangular cell
10 x 10 or 4 x 10mm, 4 pc.
10 x 10 or 4 x 10mm, 1 pc. (Reference)
Temperature control:
Thermostatted water circulation for sample and reference
Operating temperature:
10 to 90°C
Stirring system:
Integrated variable speed magnetic stirrer
2 mm path width micro cell cannot be used with the stirrer.
Cell switching:
Software control

Peltier thermostatted cell holders/cell changers

EHCS-760 Peltier thermostatted single cell holder (air-cooled)

Micro cell



ETCS-761

ETCS-761 Peltier thermostatted single cell holder (air-cooled)

Micro cell



ETCS-761



ETCR-762

Specifications:

Model name:	ETCS-761	ETCS-761	ETCS-762
Compatible cell	Rectangular cell, 10 x 10, 2 or 4 x 10 mm, 1pc.		
Temperature control system	Sample only	Sample only	Sample and Reference
Heat radiating system	Heating/cooling system utilizing Peltier effect		
Stirring system	Integrated variable speed magnetic stirrer		
Temperature setting range	5 to 70°C-	10 to 110°C-	10 to 110°C
Temperature control range	10 to 60°C (at 25°C)	0 to 100°C (for cooling water temperature at 20°C)	
Temperature control accuracy	±0.1°C (cell holder sensor)		
Temperature accuracy	With cell holder sensor: ±0.5°C (20°C to 40°C), ±1°C (other temp. range) With optional temp. sensor: ±0.2°C		

Options for EHCS-760/ETCS-761/ETCR-762

Cell mask kit

This kit includes sample masks and a cell-height adjustment stand to raise the cell height. Using the cell-height adjustment stand, a 2 mm path width micro cell can be used to measure sample with a minimum 100 uL volume.

OPS-515 In-cell sensor with holder (factory option)

This is an optional sensor which can be used to monitor the temperature inside of the sample cell.

Cell spacers

Spacers for cells with an optical path length of 1, 2 and 5 mm are available. (P/N: 6939-0501PA for 1 mm cell, 6916-6018PA for 2 mm cell and 6916-6019PA for 5 mm cell).

Capillary adapter (for V-730/V-730Bioonly)

The capillary adapter is used for a capillary cell (minimum sample volume of 3 uL). The optional sensor (OPS-515) in the cell adapter is required for temperature monitoring.
P/N: 6916-H360A Capillary adapter

Peltier thermostatted cell changers

PSC-763 Automatic 6-position Peltier cell changer (air-cooled)

Micro cell



Specifications:

Compatible cell: Rectangular cell, 10 × 10, 2 or 4 × 10 mm, max. 6 pcs.
 Reference: Rectangular cell, 10 × 10, 2 or 4 × 10 mm, 1 pc.
 Temperature control system: Heating/cooling system utilizing Peltier effect (Sample side only)
 Heat radiating system: Air-cooled
 Stirring system: Integrated variable speed magnetic stirrer (not available for the 2 mm path width cell)
 Temperature setting range: 10 to 70°C
 Temperature control range: 15 to 60°C (for room temperature at 20°C)
 Temperature setting precision: ±0.1°C (cell holder sensor)
 Temperature accuracy: With cell holder sensor: ±0.5°C (20°C to 40°C), ±1°C (other temp. range)
 With optional temperature sensor: ±0.2°C

Options

OPS-513 In-cell sensor with holder (factory option)

This is an optional sensor to monitor the temperature inside of a single sample cells

PAC-743 Automatic 6/8-position Peltier cell changer (water-cooled)

PAC-743R Automatic 6/8-position Peltier cell changer (water-cooled, thermostatted reference)

Micro Cell



Specifications:

Reference: Heating/cooling system utilizing Peltier effect (PAC-743: sample side only)
 Temperature control system: Water-cooled
 Heat radiating system: -10 to 110°C
 Temperature setting range: 0 to 100°C (at 20°C)
 Temperature control range: ±0.1°C
 Temperature setting precision: With cell holder sensor: ±0.5°C (20°C to 40°C), ±1°C (other temp. range)



Cell block (Cell and temp. sensor are optional.)	#	Compatible cell#	In-cell sensor (factory option)
6-position cell block with integrated variable speed magnetic stirrer for rectangular cell, 10 × 10 mm	1	Rectangular quartz cell, 2 × 10, max. 6 pcs.	1A
		Rectangular quartz cell, 4 × 10, max. 6 pcs.	-
		Rectangular quartz cell, 10 × 10, max. 6 pcs.	1B
		Capillary cell adaptor, max. 6 pcs. and Capillary cell A sealing compound (P/N: 1107-0015) is required for using capillary cells.	1C
8-position cell block with integrated variable speed magnetic stirrer for rectangular cell, 5 × 5 mm	2	Rectangular quartz cell, 5 × 5, up to 8ps.: 2	2A
1 mm 8-position micro cell block including Silicon cap × 8 Silicon cap with sensor hole x1, and ca fixture * Stirrer function is not available.	3	8-position 1 mm micro cell, 1 mm path length, 10 uL for each position	3A
		8-position 10 mm micro cell, 10 mm path length, 10 uL for each position, without capability for well caps : 4E	4A
10 mm 8-position micro cell block * Stirrer function is not available.	4	8-position 1 mm micro cell, 1 mm path length, 10 uL for each position	4B
		Silicon cap kit for 1103-1168, to prevent volatilization of samples at high temperatures, consisting of silicon cap x8 , Silicon cap with sensor hole x1, and cap fixture	4C
			4C

Water circulation bath

MCB-100 Mini water circulation bath



Specifications:

Temperature control range: 10°C below ambient temperature to 40°C (IN and OUT connected)
 Bath capacity: Approx. 200 mL
 Temperature sensor accuracy: ±0.2°C (at 20°C)
 Cooling/heating capacity: 52 W
 Dimensions: 160(W) × 263(H) × 225(D) mm

Sippers, Autosampler, syringe pump and flow cell

NQF-781

Vacuum sipper



NQF-783

Vacuum sipper with long-path flow cell

A 10 mm rectangular cell holder is integrated in addition to the 10 mm flow cell, and can be easily switched.

NPF-782

Peristaltic sipper



A 10 mm rectangular cell holder is integrated in addition to the 10 mm flow cell, and can be easily switched. The sample can be recovered by reversing the 'drain' direction.

Specifications:

Light path length: 10 mm
 Cell capacity: Approx. 50 uL
 Cell material: Quartz
 Carryover: Less than 1%
 Minimum sample requirement:
 0.7 mL with low-viscosity samples
 Wavelength range: 220 ~ 830 nm (V-630/650/660)
 220 ~ 2000 nm (V-670)

Specifications:

	NQF-781	NQF-783
Light path length:	10 mm	50 mm
Cell capacity:	Approx. 50 uL	Approx. 1.4 mL
Cell material:	Quartz	Quartz
Carryover:	Less than 1%	Less than 1%
Minimum sample requirement:	0.7 mL with low-viscosity samples	2.4 mL with low-viscosity samples
Wavelength range:	220 ~ 830 nm (V-730/750/760),	220 ~ 830 nm (V-730/750/760),
	220 ~ 2000 nm (V-770)	220 ~ 2000 nm (V-770)
	220 ~ 1600 nm (V-780)	220 ~ 1600 nm (V-780)

ASP-849

Peristaltic sipper



The ASP-849 can be used in conjunction with the ASU-800 and SFC-712 flow cell holder. The syringe pump is suitable for drawing small quantities of sample.

Specifications:

Reproducibility of volume delivery: Within ±1%
 Syringe capacity: 2.5 mL
 (1, 5, 10 mL options)

ASU-800

Autosampler unit



The ASU-800 autosampler automates measurements of multiple liquid samples employing a sipper or syringe pump. Various racks are available to be used with test tubes and/or vials. The PC control software is included as standard.

Option racks

	Rack	Sample	Max number of sample
SRA-811	15 mm O.D. test tube rack	10mL	100
SRA-812	13 mm O.D. test tube rack	7mL	100
SRA-813	12 mm O.D. test tube rack	5mL	150
SRA-814	10 mm O.D. test tube rack	3mL	150
SRA-816	Micro plate rack	1mL	196
SRA-818	Vial rack	1.5mL	120

Dust cover

This is a dust case that covers the rack part of ASU-800



AWU-820 Washing unit

This is a washing unit specifically for the NQF-781, NQF-782 and NPF-783. The AWU-820 can automatically wash the ASU-800 autosampler system.



SFC-712

Flow cell holder

Two different cell blocks are available as options, please specify.

5 mm path length flow cell block (50 uL cell capacity)
 10 mm path length flow cell block (100 uL cell capacity)



LFC-713

Long path flow cell holder

Three different cell blocks are available as options, please specify.

30 mm path length flow cell block (approx. 0.6 mL cell capacity)
 50 mm path length flow cell block (approx. 1 mL cell capacity)
 100 mm path length flow cell block (approx. 2 mL cell capacity)



MFC-714

Micro flow cell holder

Tubing: SUS
 Light path length: 10mm
 Cell Capacity: 20 uL



FIC-715

Micro flow cell holder

Tubing: SUS
 Light path length: 10mm
 Cell Capacity: 20 uL



Autosampler systems for multiple samples



ASU-800 with NPF-721 peristaltic sipper



ASU-800 with ASP-849 syringe pump and the SFC-712 micro flow cell



ASU-800 with NQF-720 vacuum sipper

Integrating spheres

ISV-922/ISN-923/ISN-901i

Integrating sphere, 60 mm diam.



Options

- PSH-002 Powder sample holder
For diffuse reflectance measurements of powder samples
• Size of sample area: 16 mm diameter
• Thickness: 0.5 - 6 mm
- PSH-003 Powder sample holder
For diffuse reflectance measurements of small amount of powder samples
• Size of sample area: 5 mm diameter
• Thickness: 0.5 ~ 4 mm

Specifications:

Model name	SV922	ISV923	ISV901i
Main unit V	-750/760	V-770	V-780
Inside diameter of integrating sphere	60mm diam.		
Minimum sample size (Reflectance)	20 (H) x 20 (W) x 0.5 (t) mm		
Maximum sample size (Reflectance)	65(H) x 50 (W) x 25(t) mm		
Sample cell (Transmittance)	Rectangular cell 5, 10, 20 mm path length		
Reference cell (Transmittance)	Reference cell block is optional.		
Wavelength range	200~870nm	200~2500nm	200~1600nm
Detector	PMT	PMT & PbS	PMT & InGsAs
Incident angle to reflection surface	0°, approx. 5°		

ILV-924/ILN-925/ILN-902i

Integrating sphere, 60 mm diam.



Options

- PSH-002 Powder sample holder
For diffuse reflectance measurements of powder samples
• Size of sample area: 16 mm diameter
• Thickness: 0.5 - 6 mm
- SSH-507 Solid sample holder
For diffuse transmittance measurements of a solid sample
• Minimum sample size: 20(H) x 20(W) x 0.5(T) mm
• Maximum sample size: 70(H) x 30(W) x 40(T) mm

Specifications:

Model name	ILV-924	ILV-925	ILV-902i
Main unit	V-750/760	V-770	V-780
Inside diameter of integrating sphere	150mm diam.		
Maximum sample size (Reflectance)	20 (H) x 20 (W) x 0.5 (t) mm		
Maximum sample size (Reflectance)	100(H) x 50 (W) x 30(t) mm		
Sample cell (Transmittance)	Rectangular cell 5, 10, 20 mm path length		
Reference cell (Transmittance)	Reference cell block is optional.		
Wavelength range	200~850nm	200~2200nm	200~1600nm
Detector	PMT	PMT & PbS	PMT & InGsAs
Incident angle to reflection surface	approx. 5°		

SIV-767/SIN-768

Integrating sphere with stirrer



Options

- RLH-603 Reference-side rectangular cell holder
This cell holder is required for the reference side when performing diffuse transmittance measurements of turbid liquid samples.
The 5, 10 and 20mm pathlength rectangular cells can be used with this cell holder.
- Thermostatted Cell Holder
This cell holder allows measurements under temperature control by using a 10 x 10 mm rectangular cell with a temperature range of 10 to 90°C. A thermostatted water circulator is required.

Specifications:

Model name S	IV-767	SIN-768
Main unit V	-750/760	V-770
Inside diameter of integrating sphere	60mm diam.	
Cell (Sample side)	Rectangular cell, 5, 10, 20, 30, and 50 mm path length	
Cell (Reference side):	Rectangular cell, 5, 10 and 20 mm path length * Reference cell block is optional.	
Wavelength range	200~800nm	200~2500nm
Detector	PMT	PMT & PbS
Incident angle to reflection surface	approx. 5°	

IJV-726/IJN-727/IJN-904i

Dedicated gemstone integrating sphere

Specifications:

Model name	IJV726	IJN-727	IJN-904i
Main unit V	-750/760	V-770	V-780
Inside diameter of integrating sphere	60mm diam.		
Minimum sample size	2 mm diam. (Transmittance/Reflectance)		
Maximum sample size (Transmittance)	10 mm diam.		
Maximum sample size (Reflectance)	30 mm diam.		
Wavelength range	220~850nm	220~2000nm	220~1600nm



PIV-756/PIN-757/PIN-903i

Horizontal sampling integrating sphere

Specifications:

Model name	PIV756	PIN-757	PIN-903i
Main unit	V-750/760	V-770	V-780
Inside diameter of integrating sphere	60mm diam.		
Maximum sample size (Reflectance)	30 x 30 x 10 (t) mm		
Reflectance measurement adaptor	20 mm diam. x 2 mm (no window required)		
Minimum sample size (Transmittance)	3 mm diam. x 0.5(T) mm		
Maximum sample size (Transmittance)	50(H) x 50(W) x 2(T) mm		
Wavelength range	200~850nm	200~2200nm	200~1600nm



HISV-728/HISN-729

Portable integrating sphere



Specifications:

Model name	HISV728	HISV729
Main unit	V-750/760	V-770
Inside diameter of integrating sphere	60mm diam.	
Window size:	25mm diam.	
Wavelength range	250~800nm	250~2000nm

Options

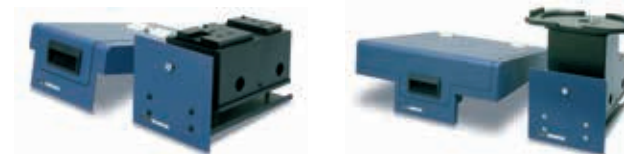
Model name	OFV624	OFV625	OFN-626	OFN-627
Portable integrating sphere	HISV728			
Length 1	m2	m1	m2	m
Wavelength range	250~800nm		250~2000nm	

Specular reflectance measurement accessories

SLM-907/SLM-908

Specular reflectance accessory

The SLM-736 and SLM-737 accessories are designed to measure the relative reflectance of a sample using the reflected light from an aluminum-deposited plane mirror as a reference. These accessories allow measurement of the reflectance of metal-deposited films and/or metal Plating, as well as measurement of film thickness using a film thickness analysis program. The SLM-738 accessory can measure larger samples such as 6 inch silicon wafers.



Specifications:

Model name	SLM-907	SLM-908
Angle of Incidence	Approx. 5° fixed	
Minimum Sample Size	10 x 10 mm	150 mm diam.
Beam Port Diameter	7 mm diam. (1mm, 2mm diam. options)	7 x 7 mm
Reflection Reference	Aluminum-deposited plane mirror (Standard)	
Wavelength Range	v-730	-
	V-750/760	200~870 nm
	v-770	200~2500 nm
	V-780	200~1600 nm
Sample chamber lid:	Standard	

Options

Model name	MSK-001	MSK-002
Sample stage with mask	2 mm diam	4 mm diam.
Maximum sample size	3 x 3 mm	50 x 50 mm
Maximum sample size	5 x 5 mm	50 x 50 mm

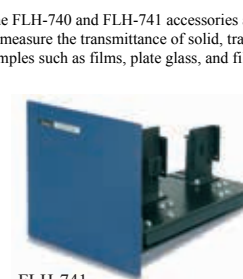
Film holder

FLH-740/FLH-741

Film holder



FLH-740



FLH-741

The FLH-740 and FLH-741 accessories are used to measure the transmittance of solid, transparent samples such as films, plate glass, and filters.

Specifications:

Model name	FLH-740	FLH-741
Minimum sample size	15 (H) x 15 (W) x 0.5 (t) mm	5 (H) x 5 (W) x 0.5 (t) mm
Maximum sample size	80 (H) x 100 (W) x 10 (t) mm	80 (H) x 100(W) x 25 (t) mm

RSH-744

Rotary sample holder



The RSH-744 accessory can be used to measure a film type sample and rotating the sample manually. The sample can be rotated 360° around the optical axis and the inclination (tilt) of the sample versus the source beam can be varied within a range of ±50°

Specifications:

- Minimum Sample Size: 10 x 30 mm
- Maximum Sample Size: 18 x 38 mm
- Sample thickness: 1 to 2 mm
- Angle of rotation: Optical axis: 360°

Perpendicular to the optical axis: ±50°

VTA-752

Film holder (variable incident angle)



The VTA-752 is a film holder to measure transmittance of a film type sample, changing the incident angle of the light beam. The incident angle of the source light beam can be set in 1° increments.

Specifications:

- Minimum Sample Size: 15 (H) x 35 (W) x 1 (t) mm
- Maximum Sample Size: 80 (H) x 70 (W) x 2 (t) mm
- Range of rotation angle: ±90°

Optical fiber probe units

FAV-750/FAV-751

Optical fiber unit



The FAV-750/FAN-751 accessories, consisting of an optical fiber unit and external detector, enables the measurement of bulky samples that cannot be set in the sample compartment and/or samples that are in special environments. The light from the main instrument is introduced to the optical fiber. The light from a sample is introduced to the external detector via the optical fiber.

Specifications:

Model name	FAV-750	FAN-751
Wavelength range	250~800nm	250~2000nm

* Optical fiber, optical fiber ports, and external sample compartment are optional.

Options

- Fiber connection port, Bundle type for FAV-750/FAN-751
- Fiber connection port, Bundle type for FAP-754
- Fiber connection port, FC connector type for FAV-750/FAN-751
- Fiber connection port, FC connector type for FAP-754
- Fiber connection port, SMA connector type for FAV-750/FAN-751
- Fiber connection port, SMA connector type for FAP-754

FAP-754

Optical fiber unit



The FAP-754 accessory can be used for sample measurement using the internal detector of the spectrophotometer. The light from the main instrument is introduced to an optical fiber. The light from a sample is introduced to the detector of the spectrophotometer via a return optical fiber.

* Optical fiber and optical fiber port are optional.

ELM-912

External light source interface



This interface is for introducing light from an external light source to the spectrophotometer, and measuring the spectrum of the external source. It can be used for the spectral/intensity evaluation of external light sources

* For correction of the measured spectrum, a secondary reference source is also required
* The optical fiber is optional.

Polarizer, Depolarization plate

GPH-506 Polarizer

The GPH-506 polarizer converts the source light from the instrument monochromator into linearly polarized light. The plane of polarization can be set at 0° (vertical linearly polarized light) and 90° (horizontal linearly polarized light). The applicable spectral range is from 215 to 2,300 nm.



DPL-515 Depolarization plate

The DPL-515 depolarizer converts incident light to non-polarized light. Non-polarized light is obtained when the rotation angle is set to 45°. The applicable spectral range is from 350 to 2,500 nm.



Absolute reflectance measurement accessory

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



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.

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



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						tandard		
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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