

CANNON UltraVIS 192 is a fully automated, high speed, solvent-free viscometer for rapid kinematic viscosity measurement of transparent and opaque liquids. A 192-position sample handler (two 96-position trays) allows unattended processing of up to 24 samples per hour. The fast-run tubes cover a viscosity range of 5 to 50 mm<sup>2</sup>/s (cSt) at 100 °C and 30 to 680 mm<sup>2</sup>/s (cSt) at 40 °C\*. The UltraVIS is optimized for condition monitoring of in-service oils.

#### Common Applications

- In-service oil viscosity
- Used oil analysis
- Fleet maintenance
- Condition monitoring

# UltraVIS<sup>®</sup> 192

## High Speed, Solvent-Free Kinematic Viscometer

For Rapid Kinematic Viscosity of Transparent and Opaque Liquids

### Precise, Robust Design

- Viscosity range:
  - 5 to 50 mm<sup>2</sup>/s (cSt) at 100 °C (±0.02 °C)
  - 30 to 680 mm<sup>2</sup>/s (cSt) at 40 °C (±0.02 °C)\*
- Runs highly sooted samples, 200+ UFM
- A well tested CANNON viscometer platform offers reliability and dependable support

### High Speed Analysis & Rapid Output

- Fast analysis time: typically 2.5 minutes per test, for 24 samples per hour
- Two 96-position removable sample trays allows for high output (192 samples) and unattended operation
- Follows most ASTM D445 principles but with shorter flow times to accommodate rapid analysis

### Fully Automated Benchtop Testing

- Eliminates labor intensive tasks of sample measurement and viscometer tube washing
- Stand-alone operation with USB port
- Single PC manages data for an unlimited number of instruments for LIMS accessory
- Included FlowHub™ PC software lets you view and output custom formatted data

### Reduced Consumable Costs

- Save time and money—no need for solvent
- Uses disposable, low-cost HDPE sample vials
- Solid bath design requires no bath fluid

### Effortless Operation

- Large, intuitive, color touchscreen
- Uses industry standard 96-position trays; no need to transfer vials
- Multi-colored Beacon Light easily distinguishes sample phases



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# UltraVIS® | High-Speed, Solvent-Free Kinematic Viscometer

## Ordering Information

UltraVIS 192 High-speed, Solvent-free Kinematic Viscometer consists of the viscometer unit, two 96-position sample trays, and external vacuum pump. Also included is one viscometer tube, a set of viscosity standards, a case of HDPE vials, one spares kit, and FlowHub™ data storage/management software. Specify viscometer cell temperature at time of ordering.

Instrument is stand-alone but optional computer (sold separately) is recommended for connecting to LIMS (Laboratory Information Management System). One Temperature Calibration Kit is required per site.

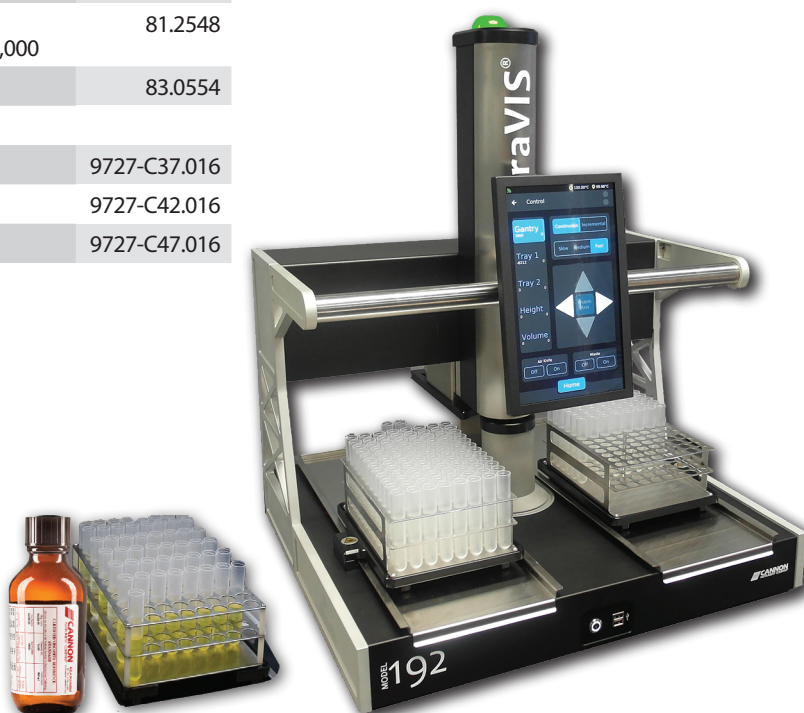
Description	Part #
100 VAC, 50/60 Hz	9729-A00
115 VAC, 60 Hz	9729-A05
230 VAC, 50/60 Hz	9729-A10

## Accessories & Consumables

Description	Part #
Temperature Calibration Kit	83.0420
40 °C Viscometer Cell	83.0380
100 °C Viscometer Cell	83.0281
Extra sample tray	83.0196
Pedestal Base	68.0298
Vials (polypropylene, round bottom); pack of 1,000	81.2548
Viscometer Cell Nut	83.0554
Viscosity reference standards	
N35	9727-C37.016
N100	9727-C42.016
N350	9727-C47.016

## Product Specifications

Dimensions (W x D x H)	<b>Unit:</b> 60.9 cm x 60.9 cm x 77.5 cm (24 in x 24 in x 30.5 in) <b>Vacuum Pump:</b> 23 cm x 32.4 cm x 20 cm (9.1 in x 12.75 in x 8 in)
Weight	<b>Unit:</b> 47.2 kg (104 lb) <b>Vacuum Pump:</b> 7.25 kg (16 lb)
Max. throughput	Up to 24 tests per hour
Automated sample capacity	192
Viscosity range	5 to 50 mm <sup>2</sup> /s (cSt) at 100 °C 30 to 680 mm <sup>2</sup> /s (cSt) at 40 °C*
Timing resolution	0.001 s
Test temperatures & accuracy	100 °C, ±0.02 °C 40 °C, ±0.02 °C
Recommended sample volume	10 mL
Operating conditions	15 °C to 30 °C, 10% to 75% relative humidity (non-condensing), Installation Category II; Pollution Degree 2
Electrical specifications	100 VAC, 50/60 Hz; 115 VAC, 60 Hz; 230 VAC, 50/60 Hz; 250 watt power consumption
Compliance	CE Mark; EMC directive (2004/108/EC); Low voltage directive (2006/95/EC); HI-POT (1900 VDC, 60 sec.); ROHS
Data output	USB, FlowHub



\*40 °C viscometer tube range is 30 to 300 mm<sup>2</sup>/s (cSt) but viscosity may be measured up to 680 mm<sup>2</sup>/s (cSt).

CANNON Instrument Company® provides a variety of physical property testing equipment and consumables (vials, bath fluids, and reference materials) for your testing needs. To learn more, contact [sales@cannoninstrument.com](mailto:sales@cannoninstrument.com).



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