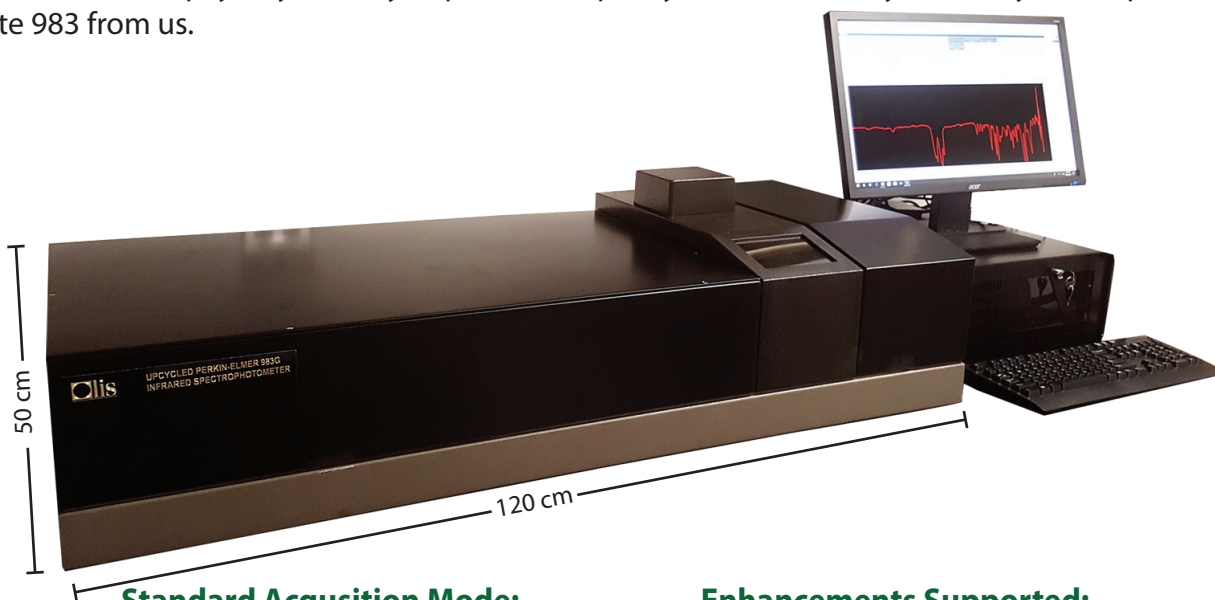


OLIS Upcycled PE 983 IR

OLIS Upcycled PerkinElmer 983 IR

Dispersive IR instead of today's FT-IR

This model combines the high precision dispersive optics of the original PE 983 with elegant Windows 10 electro-mechanical hardware and OLIS SpectralWorks software. If you are fortunate enough to own an original 983, we will upcycle yours; if you prefer this quality instead of today's FT-IRs, you can purchase the complete 983 from us.



Standard Acquisition Mode:
Absorbance IR

Enhancements Supported:
Thin Film Holder
Specular Reflectance
Diffuse Reflectance

OLIS UPCYCLED PERKINELMER 983 IR SPECIFICATIONS

Optics	F/4.2 monochromator with four gratings and nine filters; purgeable
Detector	TGS detector, preamp PCB
Abscissa Range	5000 cm ⁻¹ to 180 cm ⁻¹ (2,000 to 55,555 nm)
Abscissa Accuracy	±3 cm ⁻¹ from 5000 to 4000 cm ⁻¹ , accuracy independent of scan conditions ±2 cm ⁻¹ from 4000 to 2000 cm ⁻¹ , accuracy independent of scan conditions ±1 cm ⁻¹ from 2000 to 180 cm ⁻¹ , accuracy independent of scan conditions
Abscissa Repeatability	Run to run repeatability of 0.005 cm ⁻¹
Abscissa Expansion	User selectable through OLIS software
Scan Time	Highly variable, based on scanned range, resolution, etc.
Time Drive	Arbitrary data collection rates up to two data points per second
Baseline Flatness	Better than ±0.5 % T
Stray Light	<0.1 %, 5000 to 2000 cm ⁻¹
	<0.2 %, 2000 to 1000 cm ⁻¹
	<0.3 %, 1000 to 750 cm ⁻¹
	<0.4 %, 750 to 400 cm ⁻¹
Ambient Temperature Range	15 to 35°C
Relative Humidity	15 to 75 %