

# OmniTR

## OmniTR Transmission, Reflection & Absorption Systems

A configured scanning spectroscopy platform measures optical transmission and reflection, with absorption analysis where the measurement geometry supports it. Optical paths are selected for films, glass, lenses or infrared samples.

### 1. Selected wavelength

### 2. Sample T / R path

### 3. Spectral characterisation

#### Best suited to

Optical material development, filter characterisation and laboratory quality control.

#### Configuration

Specify sample dimensions, wavelength range, angle and whether diffuse light must be collected. A result from one measurement geometry should not be assumed to represent total transmission or reflection.

## Specifications

| Published parameters       |                                                    |
|----------------------------|----------------------------------------------------|
| System architecture        | Source + dispersion + sample + detector + software |
| Glass configuration range  | 300–2500 nm                                        |
| Glass spectral resolution  | <5 nm                                              |
| Glass scan step            | 0.1–10 nm                                          |
| Glass wavelength accuracy  | Better than $\pm 0.5$ nm UV–Vis; $\pm 1$ nm NIR    |
| Glass photometric accuracy | Within 1% UV–Vis; 2% NIR                           |
| Typical glass sample       | 100 × 100 × 10 mm                                  |

## Measurement features

- Matched light source, monochromator, sample optics and detector.
- Automated wavelength scanning and data collection.
- Sample handling selected around the material or optical assembly.

#### Configuration note

*These figures describe the building-glass configuration only. Metrology, eye-protection, lens and time-resolved IR systems in the source are separate configurations.*

Full configuration: [www.precisometer.com/spectroscopy/spectral-imaging/omnitr](http://www.precisometer.com/spectroscopy/spectral-imaging/omnitr)