

# PolyLab Raman Plastics Analyzer

The PolyLab Plastics Analyzer is specially designed for the analysis of plastics and polymer samples in the research laboratories with various possible samples including the dark and black samples.



The PolyLab Plastics Analyzer system features a narrow linewidth frequency stabilized laser, high throughput fiber optics probe, and an optically fast (f/1.6) spectrograph with TE cooled CCD detector. This system is easy to use with powerful and user-friendly RamanReader software, while providing excellent long term reliability with minimal maintenance.

The PolyLab Plastics Analyzer system come with spectral search and identification software and plastics/polymer library of more than 100 entries.

## Features and Benefits

### Sensitivity

- + Improved sensitivity with high throughput (f/1.6) optical design
- + Shorter integration time give better reaction monitoring snapshots
- + Excellent fluorescence rejection

### Ease of use

- + Intuitive and simple software interface
- + No or minimal sample preparation
- + Fiber optic probe enables flexible sampling configuration

### Portability

- + Compact, robust, and easy to move around
- + Rugged construction for long-term stability and little maintenance

### High Value

- + Laboratory performance at a low price

## PolyLab RAMAN PLASTIC ANALYZER

### SPECIFICATIONS

|                                                                                                                                                                                                                                  |                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                                                                                                                                                                                                                            | EZRaman-NP-785                                                                                                                                                                           |
| Excitation Laser (nm)                                                                                                                                                                                                            | 785                                                                                                                                                                                      |
| Laser Power (mW)                                                                                                                                                                                                                 | 300                                                                                                                                                                                      |
| Spectral Range (cm <sup>-1</sup> )                                                                                                                                                                                               | 250 - 2350                                                                                                                                                                               |
| Spectral Resolution (cm <sup>-1</sup> )                                                                                                                                                                                          | ~6                                                                                                                                                                                       |
| Spectrograph                                                                                                                                                                                                                     | High throughput f/1.6 CCD Spectrograph; CCD detector cooled to 30°C below ambient.<br>dynamic Range: 16 bits                                                                             |
| Fiber-Optic Probe                                                                                                                                                                                                                | HRP-8 high throughput laboratory fiber-optic Raman probe, O.D. > 8 Rayleigh rejection.<br>Standard lens tube working distance: 7 mm (Standard); Contact measurement lens tube (Standard) |
| System Software                                                                                                                                                                                                                  | Data Acquisition and Spectra Management Software<br>Data Files Can Be saved as .SPC, .TXT, DAT, or .BMP Formats.<br>Direct Export/Link to Spectral ID.                                   |
| Operating Temperature                                                                                                                                                                                                            | 10°C - 40°C                                                                                                                                                                              |
| Physical                                                                                                                                                                                                                         |                                                                                                                                                                                          |
| Dimension (L x W x H)"                                                                                                                                                                                                           | 11.25" x 8.6" x 7"                                                                                                                                                                       |
| Weight                                                                                                                                                                                                                           | 22.5lb                                                                                                                                                                                   |
| System Warranty                                                                                                                                                                                                                  |                                                                                                                                                                                          |
| One Year for Parts and Labor                                                                                                                                                                                                     |                                                                                                                                                                                          |
| Accessories (Optional)                                                                                                                                                                                                           |                                                                                                                                                                                          |
| SH: Sample Holder for Measure liquid samples in vials or cuvette<br>XYZ: Probe Holder-XYZ Precision Stage for fine adjustment of sample measurements<br>MVW: $\mu$ V-785 $\mu$ Viewer microscope converter<br>SG: Safety Goggles |                                                                                                                                                                                          |

Specifications are subject to change without notice.

Appropriate safety guidelines should be followed when operating this instrument. Complies with 21 CFR 1040.10 and 1040.11

