

# Polychromix LABPOD™ Portable NIR Spectrometer

## Overview

Polychromix's LABPOD™ NIR Spectrometer product family uses an innovative MEMS spatial light modulator to deliver Digital Transform Near-Infrared Spectrometers. LABPOD™ NIR Spectrometer products provide highly cost effective spectrometer solutions featuring excellent performance using a single InGaAs detector and no moving parts.

## Features

- Affordable solution
- Multiple wavelength ranges available including custom ranges
- Low power consumption
- Measurement method automatically corrects for stray light effects
- Solid-state MEMS reliability
- Compact and lightweight
- Integrated wavelength reference



## Applications

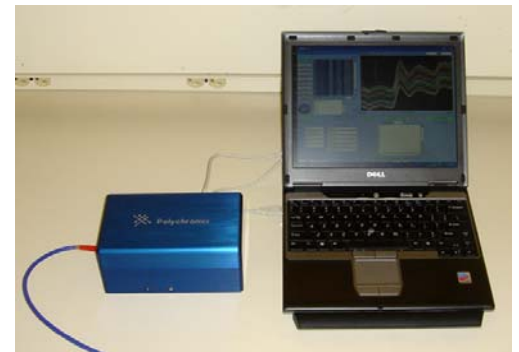
- Laboratory analysis
- Industrial Process control
- Quality Control
- Portable in-field use
- Educational and academic

## Flexibility

- Includes SpectralCode Plus™ software with data acquisition, display, and prediction functions
- Optional PHAZIR Method Generation software to develop custom qualitative and quantitative methods
- Direct Command Protocol for custom applications

## Portability and Durability

- Less than 4 lbs. in weight
- Robust reliable operation even in harsh conditions
- Operates in any orientation
- Robust reliable operation

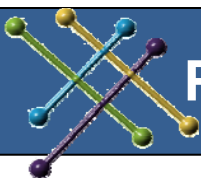


**For additional information please contact: Polychromix**

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LABPOD-Brochure-v2

LABPOD™ Specifications	LABPOD™1018	LABPOD™1624
Absolute Wavelength Accuracy	+/- 0.1 nm (better than < 40 pm per °C)	
Wavelength Calibration	Internal software controlled wavelength standard for on-the-fly calibration and qualification.	
Signal-to-Noise Ratio	100 x 10 <sup>-6</sup> Abs (typical over center 200 nm region)	
<b>Resolution</b>		
Pixel Spacing	8 nm	8 nm
Optical Resolution	12 nm	12 nm
Measurement time	<700 ms per spectrum	
Input fiber	For optimum performance use ≥600 um diameter low OH fiber with SMA-905 connector.	
Module Size (w/electronics)	4.5 x 7.5 x 3.5 inches	
Weight	1.5 KG (3.25 lbs.)	
Hardware Interface	USB, RS232, and Ethernet	
A/D Converter	24 bit	
Detector	single InGaAs	single InGaAs w/2 stage cooling
Software included:	SpectralCode Plus™ SpectralCode Direct Command Developers Kit PHAZIR Method Generator software package (optional)	
Operating Systems	Windows XP or Windows Vista	
Operating Temp Range	0 to 45°C. Can operate at other temperatures subject to calibration.	
Storage Temp Range	-40 to +85°C	
Warranty	Minimum 12-month limited warranty, parts and labor. Please contact Polychromix or your local Polychromix representative for details.	
Standard accessories	<ul style="list-style-type: none"> <li>▪ System User Manual</li> <li>▪ Mini-USB cable</li> </ul>	



LABPOD is compatible with the Polychromix Mobilight series of USB powered sampling probes with internal NIR sources.

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