

$\lambda$  *micro* **HR-NIR**

**Designed for NIR Spectroscopy**

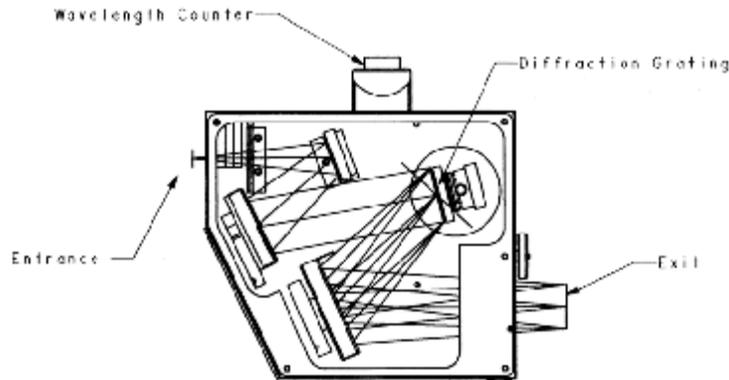
The NIR MicroHR is a 140 mm focal length spectrometer featuring gold optics (for increased through-put in the NIR spectral region) and interchangeable gold gratings for optimization of optical components and wavelength range selection. A completely manual spectrometer, the NIR MicroHR offers full flexibility of wavelength selection with no electronic thermal emissions. A high-precision wavelength counter allows for extremely accurate and repeatable wavelength positioning. Other features include fixed or micrometer slits and a mechanical shutter for true dark subtraction. In combination with a Symphony STE or LN<sub>2</sub> InGaAs Array, the NIR MicroHR is the perfect instrument for NIR spectroscopy, laser characterization, NIR fluorescence, absorption, and NIR filter characterization.



The NIR MicroHR equipped with a Symphony STE InGaAs Array

<b>Features</b>	<b>Benefits</b>
Compact and lightweight	Saves space Easily integrated into optical systems
Gold optics	Increased throughput and performance in the NIR spectral region (800 nm – 1700 nm)
Interchangeable gold gratings	Easy to switch wavelength range and upgrade in the field
High precision wavelength counter	Accurate and easy wavelength setting
Toroidal collimating mirror	Provides best imaging quality
Pre-aligned Array mount	Allows for easy Array installation without adjustment
Universal accessory mount	Compatible with existing HORIBA Jobin Yvon accessories and C-mount
Works in all positions	For versatility and portability
Monoblock construction	For greater stability and durability

# MicroHR-NIR



## Specifications

Focal Length	140 mm	
Entrance Aperture Ratio	f/3.88	
Grating Size	32 mm x 32 mm	
Scanning Range	0 nm – 3000 nm mechanical range	
Multi-channel coverage	280 nm over 26.7 mm array	
Focal Plane	27 mm wide x 10 mm high	
Spectral Dispersion	5.25 nm /mm at 400 nm	
Spectral Resolution w/ 25 µm pixel array	0.6 nm	
Wavelength Position Accuracy	± 0.5 nm	
Wavelength Repeatability	± 0.15 nm	
Wavelength Counter	Marked in 0.1 nm increments	
Slits	Fixed or micrometer	
Dimensions	Length	7 in (178 mm)
	Width	6 in (152 mm)
	Height	5.5 in (140 mm)
	Optical Axis Height	3.5 in (89 mm)
Nominal Weight	8.8 lb (4.0 kg)	

\*All specifications with 600 gr/mm grating, array with 25 micron pixels

Specifications subject to change without notice.