

Hyperspectral Imaging Specification

CytoViva Hyperspectral Imaging Components Specifications



VNIR Hyperspectral Imager

Spectral/Optical	
λ Coverage	400 – 1,000 nm
Spectral Bandpass ¹	1.25 nm
Spectral Resolution ²	1.29 nm
Electronics	
Frame Rate	12 fps, 23 fps w/ 2x vertical binning
Shutter	Electronic global
Exposure Time	5μs – 65s
Digital Resolution	12bit
Data Interface	PCI, compact PCI
Binning Selection	1 or 2 pixels horizontal and/or vertical
Power Consumption	12w
Power Supply	VAC via PCI
CE Certified	Yes



CytoViva Nano-scale Microscope and Hyperspectral Imaging System

¹ = With 12.5 μm wide entrance slit; 25μm, 40μm & 60μm slits also included

² = At Nyquist limit and 12.5μm slit

Motorized Stage

Travel Range	114mmx75mm
Repeatability	±1μm
Minimum step size	0.010μm

Image Analysis Operating System¹

Hardware	Operating System	Supported Versions
Intel/AMD x86 32-bit	Windows	XP, Vista

¹ Computer hardware and Windows operating system are provided as part of a total systems solution



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