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Find the *Applied Spectral Imaging SpectraCube* at our website: ***Click HERE***

APPLIED
Spectral Imaging

Spectral Imaging : SpectraCube®

SpectraCube® Specifications

Optical Interface	"C" and/or "F" mounts for a microscope, lenses or any other optical system.
Spectral Range	400 - 1000nm. Sensitivity below 450 and above 780nm is significantly reduced.
Spectral Resolution (FWHM)	<5nm at 400 nm, <20nm at 780 nm, user selectable (250 cm-1 in all range). Approximately 120 discrete wavelengths in spectral range.
CCD Pixel Resolution	480 (H) x 640 (V) pixels.
CCD Camera	High performance thermo-electric cooled camera.
Sensitivity	Approximately 0.04 lux (for 25 msec exposure time). Selectable exposure time up to a few seconds.
Dynamic Range	10 bit (fast scan) and 12 bit (high precision scan)
Spectral Image Acquisition Time	1-100 seconds typical (varies depending on illumination conditions and desired spectral resolution).
FFT Processing Time	5 seconds (typical) depending on the size and resolution of the spectral image.
Spectral Calibration and Accuracy	By using four narrow band-pass filters within the spectral range. Accuracy <2nm.
Acquisition & Analysis Software	Spectral Imaging (general purpose spectral image acquisition software); SPCUB (general purpose spectral image analysis software); SkyView (color karyotyping software); EasyFISH (FISH image acquisition and analysis software).
Computer and Operation System	PC, Windows NT 4.0
Optical Head Dimensions & Weight	37x36x12cm, 12kg
Scanner Controller	27x20x20cm, 4.6kg
Camera Controller	38x22x7cm, approximately 5 kg
Environment	Laboratory Use

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