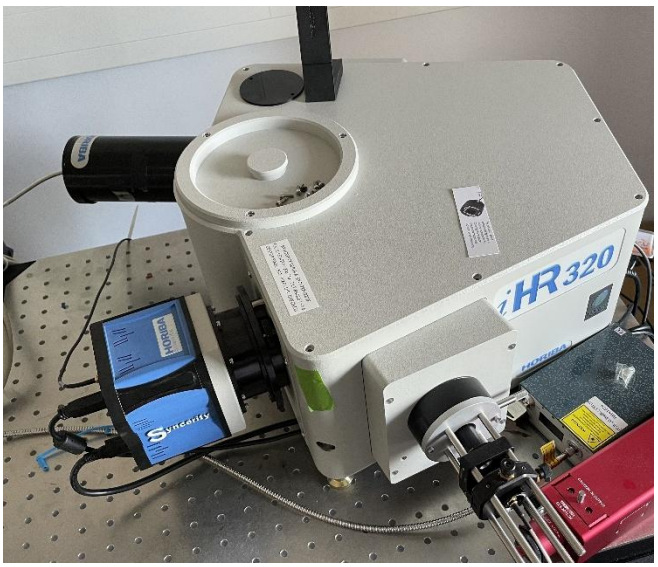
Horiba iHR 320

HORIBA Jobin Yvon



iHR320Core3 1 piece

iHR320 "Triple Grating" Imaging - Monochromator/Spectrograph

- Czerny-Turner Mount,
- Image corrected via Toroidal
- Collimator mirror, - Focal length: f = 320mm, - Aperture ratio: f / 4.1,
- Specifications for gratings with 1200 lines/mm:

* Dispersion: 2.31 nm/mm,
* Resolution: 0.06 nm at 10 µm slit width with PMT,
* Stray light suppression: 1.5x10-4, measured 1 nm beside 514nm laser line,
* Mechanical wavelength range: 0 to 1500nm,
* Wavelength accuracy: ± 0.2nm over 500nm,
* Scan speed: 160nm/sec,
* Reproducibility: ± 0.075nm,
* Flat-field (height x width): 12 x 30mm2,

- Direct drive,
- Dimensions (L x W x H): 17x422x192mm3; weight 20kg, height of optical axis 98mm wo feet,
- Equipment includes:

* Stepper motor for wavelength and grating selection,
* USB 2.0 interface,
* Automatic "on axis" grating changer (turret) for three gratings.

1 piece 520-29-120 ... 600 lines/mm holographic grating 400-1300 nm
1 piece 520-24-120 ... 1200 lines/mm holographic grating 400-1200 nm
1 piece 520-19-120 ... 1800 lines/mm holographic grating 450-850 nm

MAI-IR 1 piece

Resolution multichannel adapter for iHR320/550

MSL-I3FN2 1 piece

Motorized axial entrance slit (iHR320)

- Slit width: 0 to 2 mm
- Slit height: 1 and 15 mm

- Step size: 2 µm

MSL-I3SN2 1 piece

Motorized lateral entrance slit (iHR320)

- Slit width: 0 to 2 mm
- Slit height: 1 and 15 mm
- Step size: 2 µm

MSL-I3SX2 1 piece

Motorized lateral exit slit (iHR320)

- Slit width: 0 to 2 mm
- Slit height: 1 and 15 mm
- Step size: 2 µm

MSL-IANM 1 piece

Motorized folding mirror (input) for selection between axial and lateral entry

MSL-IAXM 1 piece

Motorized folding mirror (output) for selection between axial and lateral exit

SYNCER-1024x256-OE 1 piece

Syncerity CCD camera, 1024x256 pixels, open electrode

- Chip type: front illuminated open electrode (E2V Grade 1),
- Peltier cooling (multi-stage thermoelectric),
- Chip temperature: -60 °C,
- CCD format: 1024 x 256 pixels,
- Pixel size: 26 µm x 26 µm,
- Active area: 26.6 x 6.7 mm2,
- Spectral range: 200 to 1050 nm,
- Quantum efficiency (at 20 °C):

* 31% at 300 nm,
* 58% at 750 nm,
* 12% at 1000 nm,

- Dark current at -60 °C: typically 0.0052 e- / pixel / s,
- Readout noise: typically 4.7 e-; max 7 e- (rms) at 45 kHz, typical 17 e-; max 20 e- (rms) at 1 MHz,
- Lifetime vacuum guarantee!
- 16-bit dynamic range,
- Scan rate 45 kHz and 1 MHz,

- USB2 interface
- Includes power supply

SDRIVE-500 1 piece
CCD shutter control for Syncerity
for Syncerity, Synapse Plus, and SynapseEM cameras

MSH-ICF 1 piece
CCD shutter for iHR320/550
for mounting behind the axial entrance slit

MSH-ICS 1 piece
Internal CCD shutter for IHR320/IHR550
for mounting behind the lateral entrance slit

220F 1 piece
220F fiber adapter with quartz imaging optics
to match fiber to microHR, Triax, iHR, or FHR 640 spectrometer. Includes adapters for 1/4" ferrule or SMA inputs, an XY positioner, and two mounted quartz lenses that slide on rails for user adjustment.

CSW-VVW - LabView driver for detectors and monochromators

CSW-SYNERJY-SDK 1 piece
SDK software development kit for monochromators and detectors
for use with various programming environments including Microsoft Visual C++, Microsoft Visual Basic, and Microsoft Visual Basic for Applications. Contains sample programs for each programming language.

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