







S P E C	I F I C A T I O N S
CCD image sensor	Hamamatsu; scientific grade; MPP with lumogen UV-enhancement coating
CCD format	1024 x 252 imaging pixels; 24 x 24-µm pixels; 100% fill factor; 24.58 x 6.14-mm imaging area
Spectrometric well capacity	550,000 e ⁻
System read noise	<2 ADC counts @ 100 kHz; <5 ADC counts @ 1 MHz
Nonuniformity	±10% over entire CCD (excluding blemishes)
Dynamic range	16 bits @ 100 kHz; 12 bits @ 1 MHz
Scan rate	100 kHz or 1 MHz
Spectral rate	50 Hz full-vertical binning @ 100 kHz; 135 Hz full-vertical binning @ 1 MHz
Dark current	<5 e ⁻ /p/s @ -30°C

Note: Specifications are typical and subject to change.



Roper Scientific / Acton Research Product Literature Data Sheets

Brochures

SpectraPro monochromators

Spectrum Acquisition Systems

Spectroscopy accessories

Guide to system configuration



Gratings

CCD Chips

GS 1024 x 128 Front

GS 1024 x 128 Back

GS 1024 χ 256 Front

GS 1024 x 256 Back

S 1340 x 100 Front

S 1340 x 100 Back

S 1340 x100 Red

S 1340 x 100 Back Red

S 1340 x 400 Front

S 1340 x 400 Back

S 1340 x 400 Red

S 1340 x 400 Back Red

S 1024 x 256 Front

S 1024 x 256 Open Elect.

S 1024 x 256 Back