

Starlight Xpress - SXV-H9 Cooled CCD Camera

Features

SONY PROGRESSIVE SCAN EX VIEW CCD WITH HIGH QE FROM NEAR UV TO IR

INTERNAL HIGH SPEED USB 2.0 CONNECTION (USB 1.1 COMPATIBLE)

OPTIONAL LOW COST CS MOUNT GUIDING CAMERA FOR ON AXIS OR GUIDE SCOPE OPERATION.

INTEGRATED AUTOGUIDER OUTPUT PORT

INTEGRATED DUAL SERIAL PORTS FOR CONTROL FOR FILTER WHEELS, AUTOFOCUS DEVICES ETC.

INTEGRATED PARALLEL PORT FOR THE GUIDE CAMERA AND OTHER ACCESSORIES

What You Get!

Large, high resolution 'Exview' CCD chip, with 1,447,680 x 6.45uM pixels in a 9 x 6.7mm array

Exceptionally high QE over an extremely wide spectral range from near UV to deep IR

Exceptionally low dark signal - No dark frames necessary for many deep sky objects

Exceptionally effective anti-blooming with minimal effect on linearity and no lost active area

Built-in very high speed USB 2.0 interface (USB 1.1 compatible) for sub-4 second downloads

Built-in auto-guider interface and output - compatible with the optional dedicated external guide camera

Built-in dual serial ports for accessory control - directly drive filter wheels, GOTO 'scopes etc.

Single USB cable control for all features - get rid of that dangerous cable tangle!

Only ONE computer needed to control all of the devices and functions

Very low power consumption. Less than 1 amp at 12v DC

What You Don

NO problems finding and tracking guide stars through dense colour filters with the external guider!

NO third party guide cameras needed!

NO fans, water pipes, pumps, buckets or mess!

NO complex and dangerous cable tangles!

NO ugly blooming streaks to spoil your images, or that need hours of work to clean up!

NO residual 'ghost' images that need flushing out between shots!

NO significant microlens artifacts!

NO desiccant capsules to regenerate regularly!

NO CCD dewing problems!

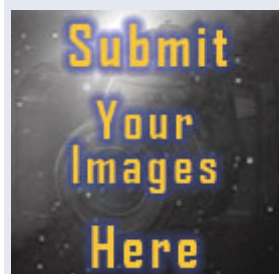
CCD Specifications

Anti - Blooming	Overload margin greater than 800 x
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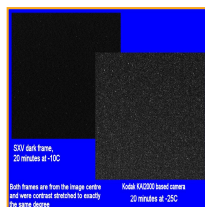
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Camera Dimensions	63 x 95 black anodised aluminium barrel with T-thread at the CCD window ens. Input / Output plugs at rear of camera.
CCD Full Resolution Pixel Data	Pixel size: 6.45uM x 6.45uM. Image Format: 1392 x 1040 pixels
CCD Image Area	8.98 mm (Horizontal) x 6.7 mm (Vertical)
CCD Type	SONY ICX285AL Ex View HAD CCD with ultralow dark current, extended IR response and vertical anti - blooming
Computer Interface	Built-in USB 2.0 compatible interface. Also works with USB 1.1.
Cooling System	Regulated constant cooling supply with single stage thermoelectric cooler to give a CCD temperature of approximately - 30C below ambient temperature.
Dark Current	Dark frame time saturation greater than 100 hours. Less than 0.02 electrons per second at +10C ambient.
Data Format	16 bits
Full-well Capacity	Greater than 27,000 e- (unbinned) 108,000 (binned 2x2)
Image Download Time	Typically 3.5 - 4 seconds full resolution using USB 2.0. Approximately 7 seconds with USB 1.1.
Power Requirements	115 VAC / 240 VAC @ 12 VA or 12 VDC @ 750mA max.
Readout Noise	Lees than 12 electrons RMS. Typically 7 electrons RMS
Size/Weight of Product	350 grams
Spectral Response	QE max at 540nm (65%). 50% roll-off at 400nM and 750nM.

Other Images

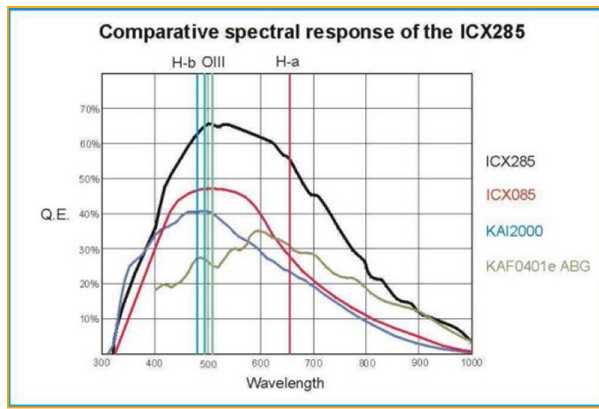


Dark Frame Comparison

Available Documents & Manuals

[SXV H9 Manual](#)

Available Charts & Schematics



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