



ATIK 414EX

FEATURES

- *1.4 million 6.45 μm square pixels for medium-resolution imaging
- *Low-noise electronics for the best sensitivity
- *Stunning Quantum Efficiency
- *Efficient cooling to -30°C max below ambient
- *Narrow body for prime focus imaging (Hyperstar and Fastar systems)



FAST WAY TO THE STARS

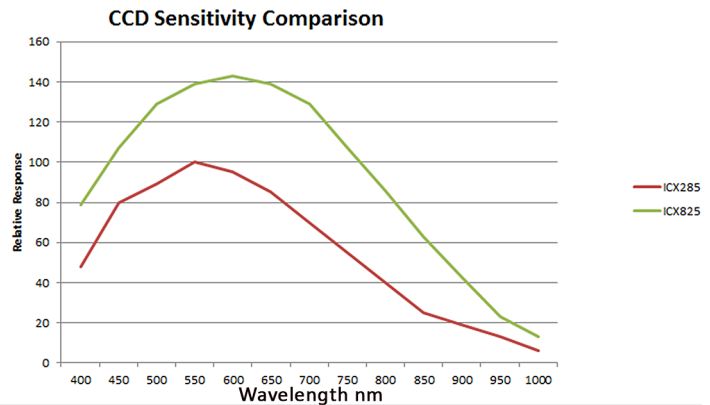
Following in the footsteps of our revolutionary 314L+ camera, the 414EX sets a new standard for high quality, affordable CCD cameras.

The 414EX features an impressive new generation Sony sensor – the ICX825 – which utilizes the same spectacular Sony EXview HAD CCD II™ technology present in our 428EX, 460EX and 490EX cameras, only with increased pixel size. This combination, along with our proven electronics, make it one of the most sensitive cameras we've seen, and absolutely incredible at this price point.

Improved setpoint cooling allows for easy image calibration and makes taking dark frames a snap, while the slim body makes the 414EX suitable for use with a variety of telescopes, including Hyperstar and Fastar systems.

QUALITY HARDWARE

It's all well and good for us to say this is our most sensitive camera yet, but how much more sensitive is it? The 414EX is up to an incredible 60% more sensitive than the 314L+. In fact, it's even more sensitive than the already impressive 460EX! The striking difference between the ICX285 (red) and ICX825 (green) sensors can be seen on the graph.



The desiccant port is now accessible from the exterior of the camera for easier maintenance and our cooling system has been engineered for low power use to help make your field sessions last longer. Available with either a mono or a colour sensor and performing exceptionally with each, this is a truly versatile, high performance camera suitable for the hobbyist and professional alike.

QUALITY SOFTWARE

CAPTURE

The Atik 414EX comes with Atik's renowned Capture application which provides a simple and intuitive yet still powerful way to acquire images. Tools include a focus assistance readout, image sequencer, guide camera control and integration with Atik filter wheels. Capture aims to take the stress out of imaging, making your time at the telescope more enjoyable. If you require compatibility with other software, we include plug-ins for MaxIm DL, Astroart and CCDSoft, as well as a full ASCOM driver.

DAWN

Also included is Dawn, Atik's new image-processing software. Like our cameras, it was designed from the ground up to be powerful yet easy to use. It allows a sequence of image-processing steps to be represented in the form of a pictorial workflow which can be created with a few mouse clicks and easily executed for repeatable and speedy results.

SPECIFICATIONS



The Atik 4-Series are the smallest Atik cameras to date, packing the highest density of performance ever.

Sensor Type	ICX825
Horizontal Resolution	1392
Vertical Resolution	1040
Pixel Size	6.45 μm
ADC	16 bit
Readout noise	Typical $5e^-$
Interface	Mini-USB 2.0
Power	12V 1A
Cooler	Regulated, $\Delta T = -30^\circ\text{C}$
Weight	400g
Dimensions	60x121mm