



ATIK 490EX

FEATURES

- * 9.1 million 3.69 μ m square pixels for high-resolution imaging.
- * Low-noise electronics for the best sensitivity.
- * High Quantum Efficiency
- * Regulated cooling to -25°C max below ambient.
- * High flexibility



FAST WAY TO THE STARS

The Atik 490EX is the highest resolution Atik to date, and one of the most flexible ones. Featuring the latest generation Sony™ EXview HAD CCD II™ technology in an area over twice as large than before, this camera has an outstanding Quantum Efficiency, very low noise and excellent thermal management. This model is an ideal match not only for Hyperstar systems, but also most small to midsize telescopes used by astrophotographers. It's excellent sensitivity and the possibility of binning while maintaining high pixel counts, makes it one of the best cameras for deep-sky astrophotography, with unrivalled flexibility.

The Atik-4 Series cameras are a development of the renowned 3-Series cameras, featuring better cooling and narrower body. They benefit from set point cooling to make taking matching dark frames a snap, and simple 12V power requirement to facilitate field operation. The impressive sensitivity, great cooling and narrow profile, make the Atik Series 4 outstanding CCD cameras to use on modern telescopes, including Hyperstar/Fastar systems.

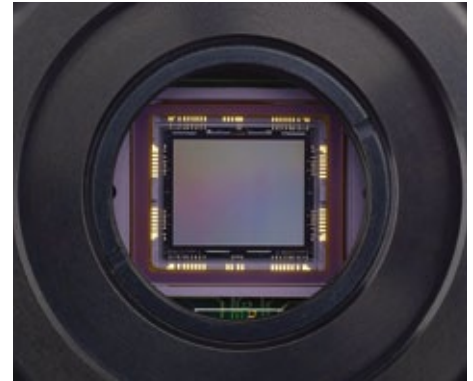
QUALITY HARDWARE

The Atik 490EX is the new standard for flexibility. Combining 9 million pixels with outstanding sensitivity and multiple binning levels, opens up the possibility of having a “one camera does all” concept. From small refractors to long focal length SCTs and RCs, the Atik 490EX is probably the only camera you’ll ever need for all your telescopes.

Image sampling examples (arcsec/pixel)

	1x1 binning	2x2 binning	3x3 binning
3" refractor f/6	1.67	3.33	5
8" Newt f/4	0.95	1.9	2.85
8" SCT f/6.3	0.6	1.21	1.81
Hyperstar 8	1.78	3.57	5.35
Hyperstar 11	1.36	2.72	4.09
Pixel count	3380x2704	1690x1352	1126x901

Featuring the narrowest body in its class, the Atik 490EX is one of the lightest cameras as well. But don’t think there was a compromise regarding cooling performance or stability. Also, the sensor diagonal is big enough to satisfy the need for bigger sky coverage, but small enough to allow the use of 1.25” filters, even with fast f/2 systems.



QUALITY SOFTWARE

CAPTURE

The Atik 490EX comes with Atik’s renowned Capture application which provides a simple and intuitive yet 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 there are 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 can then be executed very easily for repeatable and speedy results.

SPECIFICATIONS



The Atik 4-Series are the smallest Atik cameras to date and they pack the highest density of performance ever.

Sensor Type	Sony ICX814
Horizontal Resolution	3380 pixels
Vertical Resolution	2704 pixels
Pixel Size	3.69x3.69 μ m
ADC	16 bit
Readout noise	Typical 5e ⁻
Interface	Mini-USB 2.0
Power	12V DC, 1A
Cooler	Regulated, Δ T= -25°C
Weight	400g
Dimensions	60x121mm