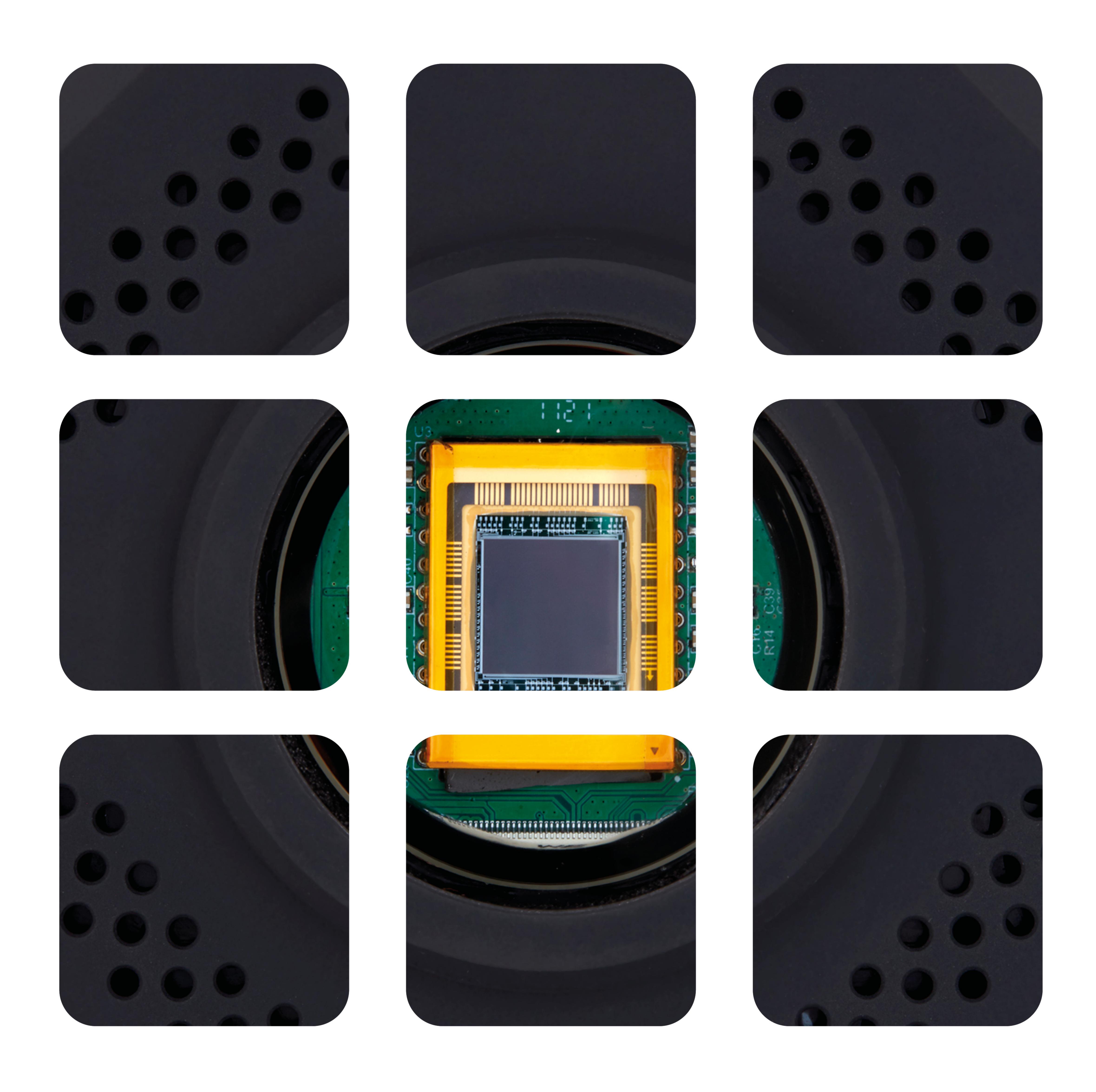
## TE-SERIES



- Deep full well
- Low dark current noise
- Optional high-speed shutter
- 16 or 18 bit depth

## TE-Series

Atik Cameras advanced imaging TE series, showcasing the power and possibilities of CCD technology. Utilising novel new chamber sealing methodology, alongside increased cooling delta, low read noise and dark current, enabling detection of the faintest signals. Furthermore, the exceptionally deep full well depth means there is much lower saturation when imaging, revealing precise detail. Atik's design and engineering complements these advanced sensors from Teledyne e2v perfectly.

With their large pixel, low noise characteristics and excellent QE, these cameras will provide fantastic results in the most demanding of applications such as chemiluminescence, fluorescence, spectroscopy, microscopy and bioluminescence.

These advanced imaging solutions come with a choice of back or front illuminated sensor and the option of a bi-stable high speed scientific shutter, capable of 20.0 millisecond opening times.



	TE-77		TE-47		TE-42		TE-30	
Image sensor	e2v CCD 77 Front Illuminated	e2v CCD 77 Back Illuminated	e2v CCD 47-10 Front Illuminated	e2v CCD 47-10 Back Illuminated	e2v CCD 42-40 Front Illuminated	e2v CCD 42-40 Back Illuminated	e2v CCD 30-11 Front Illuminated	e2v CCD 30-11 Back Illuminated
Resolution	512 x 512		1024 x 1024		2048 x 2048		1024 x 256	
Sensor size	12.3 x 12.3 mm		13.3 x 13.3 mm		26.6 x 26.6 mm		26.6 x 6.7 mm	
Pixel size (µm)	24 x 24		13 x 13		13.5 x 13.5		26 x 26	
ADC	16 bit - low noise/high speed readout options		16 bit - low noise/high speed readout options		16 bit - low noise/high speed readout options		16 bit - low noise/high speed readout options	
Digitisation MPPS	200kHz or 2 MHz		200kHz or 2 MHz		200kHz or 2 MHz		200kHz or 2 MHz	
Read noise (Typ.)	8e- (provisional)		<8e- (provisional)		<8e- (provisional)		<8e- (provisional)	
QE (peak)	46%	>92% with midband coating	46%	92%	46%	92%	46%	92%
Full Well	300,000 e- (summing well 600,000 e-)		100,000 e-		150,000 e-		500,000 e-	
Cooling Delta	-60 (provisional)		-60 (provisional)		-60 (provisional)		-60 (provisional)	
Regulated cooler	Yes		Yes		Yes		Yes	
Water assist	No		No		No		No	
Max. exposure	Unlimited		Unlimited		Unlimited		Unlimited	
Min. exposure	0.01s		0.01s		0.01s		0.01s	
PC Interface	USB2		USB2		USB2		USB2	
Power requirements	12VDC, 10A		12VDC, 10A		12VDC, 10A		12VDC, 10A	
Backfocus distance	11.9mm ±0.5 16.9mm ±0.5 with Shutter		11.9mm ±0.5 16.9mm ±0.5 with Shutter		11.9mm ±0.5 16.9mm ±0.5 with Shutter		11.9mm ±0.5 16.9mm ±0.5 with Shutter	
Mount type	M54 x 0.75		M54 x 0.75		M54 x 0.75		M54 x 0.75	
Weight	2.5kg without shutter 2.65kg with shutter		<3kg without shutter		<3kg without shutter		<3kg without shutter	
Mono or colour	Mono		Mono		Mono		Mono	
Optional scientific high speed shutter	Yes		Yes		Yes		Yes	