

## Atik Cameras Specification Tables

	Atik 314L+	420	Infinity	414EX	428EX	460EX	490EX	4120EX
<b>Image sensor</b>	Sony ICX285	Sony ICX274	Sony ICX825	Sony ICX825	Sony ICX674	Sony ICX694	Sony ICX814/5	Sony ICX834AQG
<b>Resolution</b>	1392x1040	1620x1220	1392x1040	1392x1040	1932x1452	2750x2200	3380x2704	4242x2830
<b>Pixel size (um)</b>	6,45x6,45	4,4x4,4	6,45x6,45	6,45x6,45	4,54x4,54	4,54x4,54	3,69x3,69	3,1x3,1
<b>ADC</b>	16 bit	16 bit	16bit	16bit	16 bit	16 bit	16bit	16bit
<b>Readout noise (Typ.)</b>	4e-	3e-	6e-	4e-	5e-	5e-	5e-	5e-
<b>Cooling Delta</b>	-27	-30	Passive	-30	-25	-25	-25	-25
<b>Regulated cooler</b>	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
<b>Water assist</b>	No	No	No	No	No	No	No	No
<b>Maximum exposure</b>	Unlimited	Unlimited	120s	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
<b>Minimum exposure</b>	0,001s	0,001s	0,001s	0,001s	0,001s	0,001s	0,001s	0,001s
<b>Maximum Frame Rate</b>	n/a	n/a	3fps	n/a	n/a	n/a	n/a	n/a
<b>Gain Factor</b>	0.3e-/ADU	0.13e-/ ADU	0.37e-/ADU	0.28e-/ ADU	0.27e-/ ADU	0.27e-/ADU	0.19e-/ ADU	0.14e-/ ADU
<b>Full Well Capacity</b>	~19,500 e-	~9,000e-	~24,000e-	~18,000e-	~17,500e-	~18,000 e-	~12,500e-	~9,000 e-
<b>Dark Current</b>	~0.0002 e-/ s at -10°	~0.0001 e-/ s at -10°	n/a	~0.001 e-/ s at -10°	~0.0002 e-/ s at -10°	~0.0004 e-/ s at -10°	~0.0003 e-/ s at -10°	~0.0003 e-/ s at -10°
<b>PC Interface</b>	USB2	USB2	USB2	USB2	USB2	USB2	USB2	USB2
<b>Power requirements</b>	12VDC 0.8A	12VDC, 0.9A	12VDC, 1A	12VDC, 1A	12VDC, 0.9A	12VDC, 0.9A	12VDC, 0.9A	12VDC, 1A
<b>Backfocus distance</b>	13mm ±0.5	13mm ±0.5	13mm ±0.5	13mm ±0.5	13mm ±0.5	13mm ±0.5	13mm ±0.5	13mm ±0.5
<b>Thread on front</b>	M54x0,75	M42x0,75	M42x0,75	M42x0,75	M42x0,75	M42x0,75	M42x0,75	M42x0,75
<b>Weight</b>	400g	400g	340g	400g	400g	400g	400g	400g
<b>Mono or OSC</b>	Either	Either	Either	Either	Either	Either	Either	OSC

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	GP	Titan	One 6.0	One 9.0	383L+	16200	4000	11000
<b>Image sensor</b>	Sony ICX445	Sony ICX424	Sony ICX694/5	Sony ICX814/5	KAF-8300	KAF-16200	KAI4022	KAI11002
<b>Resolution</b>	1296x964	659x494	2750x2200	3380x2704	3362x2504	4499	2048x2048	4008x2672
<b>Pixel size (um)</b>	3,75x3,75	7,4x7,4	4,54x4,54	3,69x3,69	5,4x5,4	3599	7,4x7,4	9x9
<b>ADC</b>	12bit	16 bit	16bit	16bit	16 bit	6 x 6	16 bit	16 bit
<b>Readout noise (Typ.)</b>	7e-	7e-	4e-	4e-	7e-	9e-	11e-	13e-
<b>Cooling Delta</b>	Passive	-20	-38	-38	-40	-45	-40	-38
<b>Regulated cooler</b>	No	No	Yes	Yes	Yes	Yes	Yes	Yes
<b>Water assist</b>	No	No	No	No	No	No	Yes	Yes
<b>Maximum exposure</b>	5s	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
<b>Minimum exposure</b>	0,001s	0,001s	0,001s	0,001s	0,2s	0,2s	0,001s	0,001s
<b>Maximum Frame Rate</b>	30 fps	15 fps	n/a	n/a	n/a	n/a	n/a	n/a
<b>Gain Factor</b>	n/a	0.34e-/ADU	0.27e-/ ADU	0.19e-/ADU	0.41e-/ ADU	0.6e-/ADU	0.61e-/ADU	0.92e-/ ADU
<b>Full Well Capacity</b>	n/a	~22,500 e-	~18,000e-	~12,000e-	~26,000 e-	~40,000 e-	~40,000 e-	~60,000 e-
<b>Dark Current</b>	n/a	n/a	~0.0005 e-/ s at -10°	~0.0002 e-/ s at -10°	~0.1000 e-/ s at -10°	~ <0.25 e-/s at 0°	~0.0100 e-/s at -20°	~0.0300 e-/s at -20°
<b>PC Interface</b>	USB2	USB2	USB2	USB2	USB2	USB2	USB2	USB2
<b>Power requirements</b>	USB powered	12VDC, 0.55A	12VDC, 2A	12VDC, 2A	12VDC, 2A	12VDC, 2.5A	12VDC, 2A	12VDC, 2A
<b>Backfocus distance</b>	7mm ±0.5	12mm ±0.5	27mm ±0.5	27mm ±0.5	17mm ±0.5	19.5mm ±0.5	16mm ±0.5	15mm ±0.5
<b>Thread on front</b>	M42x0,75	M42x0,75	M42x0,75	M42x0,75	M42x0,75	M54x0,75	M42x0,75	M54x0,75
<b>Weight</b>	80g	350g	900g	900g	700g	1.3kg	990g	990g
<b>Mono or OSC</b>	Either	Either	Mono	Mono	Mono	Either	Either	Either