The Apx60 is our most advanced CMOS camera to date, boasting an incredible 61 megapixel large format sensor, providing 16-bit image depth. With high full well depth and low noise, it is possible to bin and take advantage of the large pixels and speeds. Alternatively the sensor will offer 65,536 grey levels when used without binning.

Robust cooling (-35°C) and no amp glow make this camera ideal for very long exposures. The Apx60 will be perfect for a vast amount of demanding applications such as microscopy, spectroscopy, PCB screening, flat panel screening, colourimetry, neutron imaging, luminescence and astrophotography.

Additionally, the Apx60 can be supplied with either a commercial sensor or an industrial grade sensor, guaranteed for continuous use, with an in/out trigger as standard.

Our Apx60 camera comes with the assurance of Atik's reliable build quality and comprehensive software development kit. It can be fully customised to suit the requirements of specific OEM applications with integration assistance from our in-house engineering team, so please contact us to discuss your needs.

Key Features

- Exposure control 0.001s - 24 hrs
- -35°C cooling delta
- Binning
- True 16 bit digitisation
- Rolling shutter, global reset
- Full frame sensor
- 1.2e- read noise typical
- > 51k e full pixel well depth
- 3.76 µm square pixels
- Industrial 'K' grade sensor available
- Fully customisable - available as a board set

Service Item

- Desiccant cartridge

Key Benefits

- Very low read noise and dark current
- Large area sensor
- Reliable and robust
- Customisable to your specific requirements
- No moving parts
- Manufactured at our ISO 9001 accredited European premises

Software Development Kit (SDK)

- C interface covering all camera functions
- Windows c++ examples
- .net examples
- .net Wrapper
- Linux compatible
- µManager compatible
- Python compatible

Available Accessories

- Universal power supply (90-240V AC/DC) 12V
- F-mount lens adaptor

Ordering Codes

ATK0196	Commercial sensor, mono
ATK0197	Commercial sensor, colour
ATK0211	Industrial sensor, mono
ATK0212	Industrial sensor, colour

For enquiries, please contact:

Atik Cameras

T: +44 (0)1603 740397 (sales and general enquiries)
T: +351 210 868 596 (accounts and production)
E: sales@atik-cameras.com
W: www.atik-cameras.com

Apx60		
Sensor	Sony IMX455 CMOS sensor **Commercial varient**	Sony IMX455 'K' CMOS sensor **Industrial varient**
Pixel Array (resolution)	9568 x 6380 px	9568 x 6380 px
Pixel Size	3.76 x 3.76 µm	3.76 x 3.76 µm
Sensor Size	43.3mm diagonal (40.9mm x 31.1mm)	43.3mm diagonal (40.9mm x 31.1mm)
Full Well	>51,000e-	>51,000e-
ADC	16 bit	16 bit
Cooling Delta	-35°C	-35°C
Read Noise	1.2e- low noise, 3.5e- high speed	1.2e- low noise, 3.5e- high speed
QE (peak)	TBD	TBD
Digitisation MBPS	TBD	TBD
Regulated cooler	Yes	Yes
Water assist	No	No
Max. exposure	24 hrs	24 hrs
Min. exposure	10 ms	10 ms
PC Interface	USB 3.0 full speed	USB 3.0 full speed
Power requirements	12V DC, 5A	12V DC, 5A
Backfocus distance	17mm ±0.5; Without levelling plate = 9.5mm ±0.5	17mm ±0.5; Without levelling plate = 9.5mm ±0.5
Thread on front	M54 x 0.75	M54 x 0.75
Weight	1.1kg	1.1kg
Mono or Colour	Either	Either
Trigger in/out	Optional	Standard

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ATIK CAMERAS

Apx60

152
151.50
144.50
7

82.26
20.95

20
12
86.50

1/4-20 UNC
72.50

R5
22
56

Ø89