



STARLIGHT XPRESS

SCIENTIFIC IMAGING SYSTEMS



TRIOUS PRO Blue Series

Introducing the Starlight Xpress TRIUS PRO Series of cooled CCD cameras to our product portfolio.

The TRIUS range of cameras was introduced in 2014. These were the first cameras on the market to incorporate a powered USB 2.0 hub in the rear of the camera to enable the user to connect their USB filter wheel and guide camera directly to the camera rather than multiple cables back to the computer - simplicity and convenience.

The new **TRIOUS PRO Blue series** follows on from that success. We have redesigned the electronics to give even lower read-noise figures and faster downloads. With the Sony CCD cameras, we are now getting read-noise figures that are better than most CMOS cameras (when used at unity gain), along with 16bit data and significantly better dark-noise figure thanks to the impressive cooling. Dark frames really are a thing of the past, making calibration frames optional rather than compulsory, giving you more time to capture data and process your images.

KEY FEATURES

- Lower read-noise than most CMOS cameras
- High QE
- Ultra-low dark current
- Argon filled CCD chamber
- Built-in Powered USB Hub
- Collimateable front plate
- Faster download speed
- Compact and lightweight

Monochrome TRIUS PRO Camera Specifications

Product	CCD	Mega Pixels	CCD Size (mm)	No of Pixels/Size	Download Time	Read Noise	Delta Cooling	Size Dia/Length	QE	Weight	Full Well Depth	Data Format
PRO-834	ICX834	12M	12.5 x 10	4240 x 2824 (3.1um x 3.1um)	4.2 secs	<3-e	-45°C	75 x 70mm	78%	0.45Kg	>8K	16 bit
PRO-814	ICX814	9.2M	12.5 x 10	3388 x 2712 (3.69um x 3.69um)	3.5 secs	3-e	-45°C	75 x 70mm	77%	0.45Kg	>12K	16 bit
PRO-694	ICX694	6.1M	12.5 x 10	2750 x 2200 (4.54um x 4.54um)	2.5 secs	3.5-e	-45°C	75 x 70mm	77%	0.45Kg	>17K	16 bit
PRO-674	ICX674	2.8M	9 x 6.7	1940 x 1460 (4.54um x 4.54um)	1.2 secs	3.5-e	-45°C	75 x 70mm	77%	0.45Kg	>17K	16 bit
PRO-825	ICX825	1.45M	9 x 6.7	1392 x 1040 (6.45um x 6.45um)	0.5 secs	3.5-e	-50°C	75 x 70mm	75%	0.45Kg	>23K	16 bit

Colour TRIUS PRO Camera Specifications

Product	CCD	Mega Pixels	CCD Size (mm)	No of Pixels/Size	Download Time	Read Noise	Delta Cooling	Size Dia/Length	QE	Weight	Full Well Depth	Data Format
PRO-25C	ICX453	6.2M	23.4 x 15.6	3024 x 2016 (7.8um x 7.8um)	3.5 secs	7-e	-40°C	75 x 70mm	60%	0.45Kg	>25K	16 bit
PRO-814C	ICX814	9.2M	12.5 x 10	3388 x 2712 (3.69um x 3.69um)	5 secs	3-e	-45°C	75 x 70mm	77%	0.45Kg	>12K	16 bit
PRO-694C	ICX694	6.1M	12.5 x 10	2750 x 2200 (4.54um x 4.54um)	3.5 secs	3.5-e	-45°C	75 x 70mm	77%	0.45Kg	>17K	16 bit
PRO-674C	ICX674	2.8M	9 x 6.7	1940 x 1460 (4.54um x 4.54um)	2.5 secs	3.5-e	-45°C	75 x 70mm	77%	0.45Kg	>17K	16 bit
PRO-825C	ICX825	1.45M	9 x 6.7	1392 x 1040 (6.45um x 6.45um)	0.6 secs	3.5-e	-50°C	75 x 70mm	75%	0.45Kg	>23K	16 bit

For further information, please contact us at info@starlight-xpress.co.uk