

Sirius Optics Unit 1 26 Darnick Street Underwood, Qld 4119 Opening Hours

10am-5:30pm Mon-Fri 9am-2pm Sat Phone: 07 3423 2355 www.sirius-optics.com.au

Starlight X-Press SX-46 Cooled Camera

AUD \$7,499.00

Product Images



Short Description

The Trius SX-46

The SX-46 is a full-frame CCD camera with a 16.7 megapixel sensor. It utilises the popular KAF-16200 sensor, which has an 'APS-H' format array of 27 x 21.6 mm, 6uM square pixels. The use of a full frame chip requires a mechanical shutter and so SX have developed a custom 'roller blind' assembly that uses mini stepper motors to provide an extremely uniform shutter action.

The SX-46 incorporates many special features that improve on some other KAF-16200 based products:

1) A multi-coated synthetic sapphire input window. The extremely high thermal conductivity of sapphire (about 25x better than glass) eliminates the need for a window heater, by conducting waste heat from the camera body to the entire window surface. Dewing of the window is extremely unlikely to occur, even with maximum CCD cooling.

2) A stepper driven roller blind shutter with extremely uniform illumination of the sensor, even at 0.1 second exposure time. The shutter is designed for robust long-term use, but is also very easy to service or replace, if necessary.

3) A compact, dry argon filled CCD chamber, with O ring sealing. No desiccant to regularly replace. The window is easy to clean with an air duster or soft cloth.

4) Built-in LED flood illuminator for RBI elimination (trapped electrons from previous images).

5) Fast image download time - approximately 6.5 seconds for a full 16.7 megapixel image.

6) A three stage Peltier cooler to give better than -50C below ambient, with an efficient temperature controller to keep power consumption to less than 2 amps at 12v DC.

7) Standard 'Trius' 3 port USB 2 hub built-in.

8) A compact overall size of 136 mm square and 70 mm deep (+ handles). Only 1.7 Kg total weight.

Camera performance:

27 x 21.6 mm (APS-H format)
4540 x 3640
6.0 x 6.0 uM
9e typical
Approx. 41,000e
Approx. 58% at 530nM
0.6e / ADU

Additional Information

Specifications

N/A