

iCam™

Astronomical imaging camera



iOptron iCam™ family of astronomical imaging cameras. Consisting of 2 color and one monochrome models using Sony IMX sensors, our iCams deliver high sensitivity with low read out noise. Each version utilizes both a unique DPS (dead pixel suppression) technology and HCG (high conversion gain) mode which respectively eliminate any abnormal/ dead pixels and reduce high gain readout noise while retaining the high dynamic range as found when set at low gain. Each camera also has an ST-4 guiding port to facilitate a connection to the mount for autoguiding.

iCam™ 464C (#3373) imaging camera uses a Sony IMX464 color sensor. The imaging area is 1/1.8", with 2.9um pixel size, 4.2MP resolution (2712*1538) and diagonal of 9mm. When the camera is connected to the USB3.0 interface and full-resolution preview is used, it can reach 93 fps in RAW8 mode (10bit ADC). During image recording, the actual recording speed is affected by the hard drive writing speed. It is recommended to use a high-quality solid state drive to record data to realize the full benefit of the USB3.0 data speed. An IR850 or CH4 filter can be used with the camera for infrared imaging.

iCam™ 462C (#3372) uses a Sony IMX462 color sensor. The imaging area is 1/2.8", with 2.9um pixel size, 2.1MP resolution (1944*1096) and diagonal of 6.5mm. When the camera is connected to the USB3.0 interface and full-resolution preview is used, it can reach 136 fps in RAW8 mode (10bit ADC). During image recording, the actual recording speed is affected by the hard drive writing speed. It is recommended to use a high-quality solid state drive to record data to realize the full benefit of the USB3.0 data speed. An IR850 or CH4 filter can be used with the camera for infrared imaging.

iCam™ 178M (#3371) imaging camera uses a Sony IMX178 mono sensor. The imaging area is 1/1.8", with 2.4um pixel size, 6.4MP resolution (2096*2078) and diagonal of 9mm. When the camera is connected to the USB3.0 interface and full-resolution preview is used, it can reach 60 FPS in RAW8 mode (10bit ADC). During image recording, the actual recording speed is affected by the hard drive writing speed. It is recommended to use a high-quality solid state drive to record data to realize the full benefit of the USB3.0 data speed.

Product	Description	MAP
3371	iCam 178M monochrome camera	\$309.00
3372	iCam 462C color camera	\$259.00
3373	iCam 464C color camera	\$309.00
3370	iCam ext. tube	TBA



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all prices are in US dollars

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