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See what pictures can be taken with CCD cameras and even small astronomical telescopes! Up to 30 frames per second A color CCD camera for astronomical observation with a telescope at speeds up to 30 frames per second, without an infrared filter. Using the IC Capture.AS software included with the camera, you can capture image sequences without loss of quality and without compression, as AVI files. Sony color CCD sensor The DBK 31AU03.AS CCD camera for astronomical applications uses the ICX204AK CCD matrix from Sony. With a 1/3 "format, the sensor has a resolution of 1024 x 768 pixels. Noise, even with long exposures, is minimal. Thanks to unsurpassed quality, the ICX204AK matrix is often used in industrial image processing applications. No compression, no filter The DBK 31AU03.AS CCD camera does not use compression and does not block infrared. As a result, it is a more universal camera - filters, including an IR cut filter can be attached, obtaining the desired results. Mount to the telescope through C-mount Fixing the camera to the spectacle hood is very easy and fits all lifts in the 1.25-inch standard. Just remove the eyepiece and insert the adapter in its place - the mounting sleeve screwed to the camera (the adapter is part of the set, you do not have to order it additionally). Now all you have to do is tighten the screws that secure the eyepiece in the extractor so that the camera does not fall out when you move / change the position of the telescope. Fast data transfer via USB The Astronomical DBK 31AU03.AS camera generates a fast stream of uncompressed color images. To be able to send it to a computer that supports the camera, a quick connector is necessary. That's why the camera is equipped with a USB 2.0 cable. Software included in the set for Windows This camera is supplied with the WD WD DCAM TIS camera driver and IC Capture.AS control software. You can find more about the software [HERE](#) Technical parameters

- Symbol (manufacturer's mark): DBK 31AU03.AS
- Type: color camera, working on a USB connector, without an IR filter
- Connection method to the computer: USB
- Manufacturer: The Imaging Source
- Matrix / sensor type: CCD
- Type: progressive scan
- Matrix / sensor specification: Sony ICX204AK (PDF)
- Resolution: 1024 x 768 pixels
- Exposure time: from 1 / 10000s to 60min
- Reinforcement: 0 - 36 dB
- The number of frames per second at the maximum resolution (FPS) thirty
- Mounting the lens: C / CS mount
- Video format at FPS: 1024 x 768, BY8 (RAW) @ 30, 15, 7.5, 3.75 fps 1024 x 768, UYVY @ 15, 7.5, 3.75 fps
- Power supply: from 4.5 to 5.5V

through a USB cable â€¢ Power consumption: about 500mA at 5V direct current â€¢ Dimensions: 50.6mm x 50.6mm x 50mm â€¢ Weight: 265g â€¢ Working temperature range: -5 ° C to 45 ° C â€¢ Storage temperature range: -20 ° C to 60 ° C
Humidity (work): 20% to 80% â€¢ Humidity (storage): 20% to 95%