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â€¢ camera at a reasonable budget, allowing you to take breathtaking photos of the starry sky â€¢ great for monochrome photos, work in narrow bands, connected (LRGB or three-color) â€¢ Orion StarShoot G3 is equipped with a 1/2 "CCD sensor with integrated thermoelectric cooling (Peltier, TEC) â€¢ 16 bit A / D conversion â€¢ can work as an autoguider (has a built-in ST-4 port) â€¢ Complete Orion Camera Studio software included that allows you to easily capture and process images â€¢ software compatible with Windows XP, Vista, 7, 8 and 10 â€¢ ASCOM drivers included in the set that allow the camera to work with other programs and for guidings Below : a combination of 2 different dark frames (180 seconds) using cooling and without cooling. The cooling system in the StarShoot G2 camera reduces the number of hot pixels and the total noise of the image. Above : screenshot of the included software. Technical parameters â€¢ range of applications: deep sky astrophotography (DS), guiding â€¢ matrix: Sony ICX419ALL CCD monochrome â€¢ die dimensions: 7.40 mm x 5.95 mm â€¢ resolution / layout: 752 x 582 â€¢ single pixel size: 8.6 x 8.3 μ m â€¢ Possibility to work as an autoguider: yes, it has a ST-4 port â€¢ exposure time range: from 0.01 sec to infinity â€¢ A / D converter resolution: 16 bit â€¢ depth of the potential well: 50000 e- â€¢ RMS = 9 e- â€¢ dark current (for 0 ° C) = 0.01 e- / pixel / sec â€¢ thermoelectric cooling: yes, ? = -10 ° C â€¢ built-in IR filter: no â€¢ telescope mount: 1.25 "nosepiece, 2" nosepiece, T-2 thread â€¢ connection with a computer: USB 2.0 â€¢ time to complete the full frame: 2 seconds â€¢ compatibility: Windows XP / Vista / 7/8/10, ASCOM â€¢ port for guiding: yes, in ST-4 standard â€¢ binning: 1x1, 2x2 â€¢ backfocus: 19 mm (from thread T) â€¢ weight: 340 g â€¢ elements of the set: camera, USB cable, power cable as standard in the cigarette lighter socket, nose, software disc