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The Spinor Optics Biolux 400 XSP48 is the successor to our popular Spinor Optics Start 40-400x. It is recommended for young and elderly researchers of the micro-world optical microscope with a significantly redesigned construction. The optical system has been improved, which determines the quality of the microscopic image. In addition, the microscope has a socket in the base for battery installation, thanks to which observations can be carried out in the field or where we do not have access to the power grid. The shape of the body also makes it easier to move and carry the microscope. The advantages of Biolux 400x XS48 to Spinor Optics Start 40-400x and outstanding features – an improved optical system with optical glass of the highest quality allows you to get an even better picture - bright and without distortion – Built-in battery operation without the need for a plug - it is possible to take the microscope in the field – a holder integrated in a tripod that facilitates the safe transfer of the microscope – solid metal body guarantees long-term reliability, made of light and durable alloys – double adjustment of focus: coaxial macrometric and micrometer knob - it facilitates precise adjustment of the focus, which is especially important especially at high magnifications (in this price range it is worth paying attention to) – dual lighting system with smooth brightness adjustment: passing (bottom - so-called DIA) for observing preparations on glass slides (transparent objects, transmitting light beam) and reflected (upper - so-called EPI); Reflected lighting allows you to observe non-transparent objects (eg insects, minerals, fabrics, coins) – LED illumination prevents the preparation and microscope from heating up (no risk of scalding) and guarantees several tens of thousands of hours of work – achromatic 4x, 10x and 40x lenses as well as WF10x wide field eyepiece – real range of magnifications obtained thanks to lenses: from 40x to 400x (you can also buy an additional 16x eyepiece and gain 640x magnification) – cross table with preparation handle and precise shift knobs in the horizontal plane in the X and Y axes - precise selection of the test area – the movement mechanism of the preparation has a vernier - a special scale that increases the accuracy of the reading – six-seater wheel with colorful filters that allow you to choose the optimal lighting conditions and get better image contrast during the observation – a set of ready-made preparations included (you can start the observation immediately after unpacking), preparatory tools (for preparing your own preparations) and materials for maintaining the optics in cleanliness - a detailed list in the "equipment" section Technical parameters – Monocular head rotated by 360 °, inclined at 45 ° – lenses with glass optics: 4x, 10x, 40x – wide field eyepiece with a glass optic: WF10x – the possibility of mounting in the eyepiece tube of a digital microscope camera or glasses with a larger magnification (to be bought) – range of magnifications in the standard 40x - 400x standard completion – five different contrast color filters plus one free slot on the rotary dial – three-socket objective revolver – upper (reflected) and lower (passing) illumination LED with brightness adjustment - changing the operating mode by means of a switch at the back of the microscope – Possibility of working on batteries, without the need of connecting to the electricity grid – 90 x 90 mm functional table with cross mechanism with a specimen mounting holder, equipped with horizontal shift knobs (X / Y) – the movement mechanism of the preparation has a vernier - a special scale that increases the accuracy of the reading – coaxial double sided micro / macro knobs for focusing – solid ergonomic metal stand with a modern design, has a special holder for safe carrying the microscope – dimensions: 120 x 156 mm (base), height: 290 mm – weight: about 1500 g Equipment – ready-made preparations (5 items) – glass slides (5 items) – coverslips (10 pcs) – plastic box for preparations – a plastic round container with a lid – tweezers – pipette – test preparations – preparative stick – preparative stick – special paper for cleaning the optics – adhesive labels for labeling preparations – anti-dust cover for the microscope – AC adapter Warranty 2 years below - photos taken with the Spinor Optics 400 XSP48 microscope and a Bresser camera with 2 megapixels USB; preparations - selected Levenhuk biological preparations; click to view the full-resolution image