

End User: **USM, Institute of Zoology,**
Chisinau

Date: 21.08.2025



Microscope Axio Imager

490016-9880-010

Specification AMK 0819/25

ZEISS Warranty – 12 months

Position	Item number	Description	Quantity
1	430007-9901-000	Stand Axio Imager.A2 LED Axio Imager.A2 microscope stand with LED - Z-drive man., with fine drive knob and fine drive disk, flat with scala, changeable - stage/condenser carrier, detachable - LED illuminator for transmitted light at condenser carrier - Light Control man. with RS 232 interface - integrated 12V DC 100W power unit, stabilized, 100V...240V AC/ 50...60Hz/168VA - country-specific line cable and RS 232 cable	1
2	424501-0000-000	Revolving nosepiece 7x HD cod. f/Imager 7-position objective nosepiece, HD M27 cod.	1
3	425503-9901-000	Binoc Phototube 15/25 Mat Binocular phototube 15°/25 (100:0/0:100), upright image adjustable stop, camera port with interface 60N	1
4	444036-9000-000	Eyepiece PL 10x/23 Br foc Eyepiece PL 10x/23 Br. foc. With mount for reticle diam. 26 mm.	2
5	444801-0000-000	Folding Eyecup Eyepiece eyecup	2
6	423600-0000-000	FL/HD Light Train Man f/ Imager 2/D1/Z1 Reflected-light illuminator for FL and HD for Axio Imager with shutter and with openings for manual stop sliders and filter wheels. Transmission range 340-1100 nm. With 340 nm and 1100 nm ~40%.	1
7	424931-0000-000	Reflector Module FL EC P&C Reflector module FL EC P&C Reflection avoided through tilted mount for emission filters, max. filter thickness: 5 mm	1
8	424906-0000-000	Reflector Turret 6x Man cod f/ Imager 6-position reflector turret man. cod. for P&C modules	1
9	432001-9902-000	Mechanical stage 75x50/240 R Mechanical stage 75x50/240° R with hardcoat anodized surface - 240 x 170 x 18 mm stage plate - coaxial drive right 150 mm, extendable in length by 15 mm, friction setting without any tools	1
10	432333-9000-000	Specimen holder Specimen holder basic for one-hand operation, spring lever left	1
11	434303-0000-000	Dust Protection Set M Dust protection Set M consisting of dust cover (L650xW200xH570 mm), eyepiece cover and protection cap for luminous-field diaphragm optics	1

12	424200-9901-000	Condser Achr Apl 0.9 H D Ph DIC Achromatic-aplanatic universal condenser 0.9 H D Ph DIC with switchable front lens, turret disk, with centerable Ph1, Ph2, Ph3 and D stops, already integrated, 3 mounts for DIC condenser modules, 1 separate position for bright field. For objective magnifications 1.0x-100x, WD=1.2mm	1
13	423052-9641-000	Light Source Viluma 5 RGB-UV Light Source Viluma 5 RGB-UV 4-channel fluorescence light source with integrated control unit for continuous brightness adjustment, quickly switchable. Equipped with 4 solid state LED lamps. Red (631 nm) for excitation of Cy5, Alexa 631, TOTO-3 and similar dyes Green (555 nm) for excitation of Cy3, TRITC, DsRed and similar dyes Blue (469 nm) for excitation of eGFP, Fluo4, FITC and similar dyes UV (385 nm) for excitation of DAPI, Alexa 405, Hoechst 33258 and similar dyes A country-specific power cable and a desktop power supply are included in delivery. When used at an Axio Observer with Incubator XLmulti, the Extension tube for illuminator mount, 17 mm is required..	1
14	489090-9110-000	Filter set 90 HE LED Filter set 90 HE LED (E) for use with ZEISS LED fluorescence light sources. Suitable for fluorescent dyes like DAPI, FITC, TRITC and Cy5 with excitation wavelengths 385, 475, 555 and 630 nm. Contains beam splitter QBS 405 + 493 + 575 + 653 and emission filter QBP 425/30 + 514/30 + 592/25 + 709/100.	3
15	420340-9901-000	EC Plan-Neofluar 10x/0.30 WD=5.2 M27 Objective EC Plan-Neofluar 10x/0.3 M27 (FWD=5.2mm)	1
16	420350-9900-000	EC Plan-Neofluar 20x/0.50 WD=2 M27 Objective EC Plan-Neofluar 20x/0.50 M27 (FWD=2.0mm)	1
17	420360-9900-000	EC Plan-Neofluar 40x/0.75 WD=0.71 M27 Objective EC Plan-Neofluar 40x/0.75 M27 (FWD=0.71mm), incl. Cover glasses, high performance, CG=0.17mm, box with 100 pc.	1
18	420490-9900-000	EC Plan-Neofluar 100x/1.3 Oil WD=0.2 M27 Objective EC Plan-Neofluar 100x/1.30 Oil M27 (FWD=0.20mm), incl. Immersol 518 F, oiler 20ml and Cover glasses, high performance, CG=0.17mm, box with 100 pc.	1
19	426112-0000-000	C-Mount Adapter 60N C 2/3" 0.5x Camera Adapter 60N-C 2/3" 0.5x	1

20	426560-9051-000	Camera AxioCam 705 color R2 Microscopy Camera AxioCam 705 color R2 (D) High Performance microscopy camera incl. driver software 64 bit USB 3.0 PCIe x1 interface, USB 3.0 cable 3 m and IR barrier filter (coated) Sensor Type: SONY IMX250 Exmor CMOS, SONY Pregius Global Shutter Color filter array Number of Pixels: 2464 (H) x 2056 (V) = 5.07 Mega pixel Pixel Size: 3.45 µm x 3.45 µm Chip Size: 8.5 mm x 7.1 mm, equivalent to 2/3" (diagonal 11.1 mm) Spectral Range: With IR barrier filter approx. 400 nm to 720 nm Full Well Capacity: Approx. 11,000 e at gain 1x (typ.) Adjustable Signal Amplification: 1x, 2x, 4x, 8x, 16x Selectable Resolution (color and monochrome): H x V Binning Factor (1x1 to 5x5 digital) 2464 x 2056 1x1 Basic Resolution 1232 x 1028 2x2 816 x 684 3x3 608 x 514 4x4 480 x 410 5x5 (at 2x2 combined analog and digital binning for further increase of sensitivity) H x V Subsampling Factor 2464 x 2056 1x1 1232 x 1028 2x2 Live Frame Rate: (1 ms exposure, default setting Fast Mode) H x V Frame Rate (fps) 1232 x 1028 30 Frame Rates for TimeSeries Recording: (1 ms exposure, further depending on hardware and software configuration) H x V (ROI) Frame Rate (fps) 2464 x 2056 60 1920 x 1080 115 1232 x 1028 173 (2x2 subsampling, full field of view) 1024 x 1024 121 512 x 512 235 1920 x 256 436 Read Noise Full Well Capacity Dynamic Range (at gain) 2.20e (1x) 11,000 e 1:5000 1.74 e (2x) 5,000 e 1:3100 1.48 e (4x) 2,700 e 1:1800 1.29 e (8x) 1,300 e 1:1300 1.15 e (16x) 690 e 1: 600 HDR Mode Dynamic Range 1:25,000 Software Supported Camera Operation: Exposure time adjustment with continuous, automatic or manual mode, adjustable over or under-exposure mode, optional measurement on defined target area (spot-meter), adjustable color saturation, White balance adjustment interactive or automatic mode with selectable target white balance color (warmer / colder) Readout of Sensor Sub Regions ("ROI"): Adjustable Digitization: 8, 12, 14 bit / pixel (8 out of 14 bit or compression mode) Dark Current: < 0.5 e/p/s @ 18 °C sensor temperature Cooling: Stabilized temperature to 18 °C (for ambient temperatures from 18 °C to 30 °C) Exposure Time Range: 0.1 ms to 60 s Hardware Trigger: Trigger-In for exposure time control, Trigger-Out for exposure time, Readout time and trigger ready status (further accessories required) Status-LED for Camera: Color coded operation status, dimmable Camera Interface: USB 3.0 (Optional operation with USB 2.0 at reduced frame rate) Optical Interface: C-Mount Thread Depth for Objectives: max. 5 mm Size / Weight: Approx. 10.8 cm x 7.8 cm x 5.1 cm (2.3" x 3.2" x 2.0") / 580 g Housing: Blue anodized aluminum, with cooling fins on top, 1/4" photo thread for tripod mount Registration: CE Power Supply: Provided by USB 3.0 and USB 2.0, max. 7 W consumption Environmental Conditions: 5 °C to 35 °C, max. 80% relative air humidity, not condensing, free air circulation required Supported Operating Systems: for ZEN: Windows 10 x64 Supported Application Software: ZEN 3.6 (blue edition, Hotfix 3.6.6) or higher, ZEN core 3.5 (Hotfix 3.5.4) or higher The required application software is available via the ZEISS Download Center.	1
21	410135-0002-312	SW ZEN 3.12 DLic ZEN 3.12 Image acquisition and processing under Windows 10 / Windows 11 x64 User interface configurable, control of the ZEISS microscope systems and components, extensive acquisition and analysis, CZI image format The following functions are included: - Basic 3D viewing - Colocalization - Connect basic - Direct processing - Manual EDF - Measurement - Panorama - Spectral unmixing - ZEN Data Storage Client - Acquisition Base (time series and multichannel) - ZEN API Gateway Includes a Docker Desktop license required by selected ZEN toolkits.	1
22	430000-7011-101	IM Axio Imager EN	1

23	430000-7244-001	GA LIGHT MANAGER EN	1
24	423052-7021-101	IM Viluma 5/7 EN	1
25	424905-0261-000	Stickers for AxioImager	1
26	424905-0260-000	Sticker fluorescent	1
27	000000-1766-630	Reflector Modules Storage Case Storing case for 6 pieces of reflector modules P&C	1
28	474030-9010-000	Cover glassess 1,5 H, high-performance, Cover glasses 1,5 H, high-performance, 100 pc	2
29	000000-2563-019	Immersion 518 F (20ml) packed, free	1
30	000000-1501-144	Tool bag f/AxioScope	1
31	000000-0015-248	Offset screwdriver DIN 911-4	1
32	457411-9012-000	Cable RS232 3m	1
33	000000-0454-142	Cable USB-2.0 A-4plug/B-4plug gy 3.0m	1
