

<u>LOT 5</u>	
1.	Binocular polarizing microscope equipped with camera
2.	Binocular polarizing microscope
3.	Binocular optical microscope with halogen lamp
4.	Stereomicroscope
5.	Trinoculaire Microscope
6.	Digital Camera
Only Brands from Europe, North America, or Japan are acceptable.	
<u>1.Binocular polarizing microscope equipped with camera</u>	
Binocular head, Siedentopf type with Built-in digital camera	
Colour Corrected Infinity Optical System	
Objectif Plan Achromat, DIN	
Focusable and centerable Abbe condenser N.A. 0.90/1.25 with slot for contrast sliders	
Widefield N-WF10× / 20 mm; diopter adjustment on both.	
4X/0.10 (WD 15.9mm), 10X/0.25 (WD 17.4mm), 40X/0.65/S (WD 0.5mm), 100X/1.25/S-Oil (WD 0.15mm)	
Mechanical stage with built-in low position coaxial stage control with tension adjustment and 2-sample holder	
Focusable and centerable Abbe condenser N.A. 0.90/1.25 with slot for contrast sliders	
30° inclined, 360° rotating	
Transmitted light: Quartz halogen lamp 6V / 30W under full Köhler illumination; intensity control	
Coaxial coarse/fine focusing; fine focus precision $\approx 2 \mu\text{m}$ with tension adjustment	
Accessories included Dust cover, power cord, Allen key, Immersion oil (5ml), spare fuse, cord hanger, thumb screw, calibration slide, USB cable	
<u>2.Binocular polarizing microscope</u>	
Binocular, sliding type	
Finite Optical System, 160mm	
45° inclined, 360° rotating	
Interpupillary distance 55-75mm	
Diopter adjustment On both tubes , +/- 5 diopter	
Eyepieces Widefield 10X/18mm	
Semi-Planachromatic SP	
Objectives 4X/0.1, 10X/0.25, 40X/0.65/S, 100X/1.25/S	
Built-in low position coaxial rackless mechanical stage with sample holder	
Travel range X&Y 76x40mm	
Focusable 1.25 N.A. Abbe Condenser, iris diaphragm and filter holder	
Coaxial coarse and fine focusing system with tension adjustment	
Fine focus precision $2 \mu\text{m}$ minimum increment	
Transmitted illumination 3W LED illumination with intensity control	
Accessories included Dust cover and immersion oil	

<u>3.Binocular optical microscope with halogen lamp</u>
Binocular head, Siedentopf type
Colour Corrected Infinity Optical System
Objectif plan Achromat, DIN
Focusable Abbe condenser N.A. 1.25 with slot for contrast sliders
Iris diaphragm
On both eyepieces, +/- 5 diopter
Widefield N-WF10X/20mm with diopter adjustment
Filter holder on top of the illuminator with fixing cap
Coaxial coarse and fine focusing system with tension adjustment with focusing strock 20mm
Illumination interchangeability Quartz halogen 6V/30W or LED 3W
30° inclined, 360° rotating
Standard contrast technique: Brightfield
objectives 4X/0.10 (WD 15.9mm), 10X/0.25 (WD 17.4mm), 40X/0.65/S (WD 0.5mm), 100X/1.25/S-Oil (WD 0.15mm)
Travel range X&Y 80x30mm
Mechanical stage 150x150mm with built-in low position rackless coaxial stage control and sample holder
Accessories included Dust cover, power cord, Allen key, immersion oil (5ml), blue filter, spare fuse, cord hanger, thumb screw
<u>4.Stereomicroscope</u>
Binocular head
Optical system greenough
inclination 45° inclined
Interpupillary distance 52-75 mm
Diopter adjustment On both eyepieces, +/- 5 diopter
Widefield N-WF10X/23mm with diopter adjustment
Zoom, ratio 6.7:1
Objectives 0.75X~5X
Pole type stand with transmitted illumination
Head holder For Ø32mm column and Ø76mm head
Coarse focusing (focusing strok 49mm) system with tension adjustment
Incident illumination LED 3W with intensity control
Transmitted illumination LED 3W with reflector and intensity control
Transmitted light with tilting reflector for oblique illumination
Accessories included Dust cover, black/white and frosted stage plates
<u>5.Trinoculaire Microscope</u>
Trinocular head, Siedentopf type, 360° swiveling
Color Corrected Infinity Optical System (CCIS®)
Objectif Plan Achromat, DIN

25° inclined, 360° swiveling
Trinocular light split Fixed 50:50
Interpupillary distance 48-75mm
Diopter adjustment On both eyepieces, +/- 5 diopter
Widefield UC-WF10X/20mm with diopter adjustment
Objectives 4X/0.10 (WD 30.5mm), 10X/0.25 (WD 17.4mm), 40X/0.65/S (WD 0.6mm), 100X/1.25/S-Oil (WD 0.16mm)
Objective mounting thread W 4/5"x1/36" (RMS standard)
Compact mechanical stage with built-in low position rackless coaxial stage control and sample holder, Upright
Focusable and centerable Abbe condenser N.A. 0.90/1.25 with slot for contrast sliders
Iris diaphragm
Coaxial coarse and fine focusing system (precision 2µm) with tension adjustment
Filter holder On top of the illuminator with fixing cap
Transmitted illumination Koehler LED 3W & Quartz halogen 6V/30W with intensity control
Illumination interchangeability Halogen/LED and LED color temperature interchangeability
Light memory, sleep mode (auto on-off), nosepiece LED light intensity indicator
USB 2.0 for external camera power
Accessories included Dust cover, power cord, Allen key, blue filter, halogen bulb, LED module
<u>6.Digital Camera</u>
Digital microscope camcorder
Sensor type: CMOS
Sensor Size: 1/2.5"
Integrated LCD screen 10" HDMI input
Live resolution: 800x600 pixels USB
Effective Pixels: 2592 x 1944 (5.0 MP)
Optical calculation: 1/2,5"
Output: USB, HDMI, RCA video
Active resolution: 1080i HD
Focusable lens: 12mm
2 variable diameter eyepiece adapters (30 & 38 mm)
Macrotube for specimens observation
Video capture : 1080p (Full HD)
Remote control included
Software included for PC & MAC
Two year warranty

<u>LOT 6</u>	
1.	Standard pH electrode
2.	Benchtop conductivity/ TDS/ Salinity/ Temp
3.	PORTABLE CONDUCTIVITY/TDS SALINITY/TEMP
4.	PH meter
5.	PH meter
6.	Digital Abbe Refractometer
7.	Portable Turbidity Meter
Only Brands from Europe, North America, or Japan are acceptable.	
<u>1.Standard pH electrode</u>	
Basic pH combination electrode.	
Gel or liquid electrolyte	
PH 0-14	
With BNC plug, 1m cable.	
<u>2.Benchtop conductivity/ TDS/ Salinity/ Temp</u>	
Simultaneous displays of conductivity, salinity or TDS with temperature measurements.	
Convenient one point calibration. Calibration data is stored in memory and is ready for use on power up.	
Adjustable TDS coefficient, reference temperature and temperature	
Uses one conductivity cell for conductivity, salinity and TDS measurement	
Accepts 4-wire conductivity cells with k=0,475 cell constant and 2-wire K=0,1 cell constant for improved flexibility and accuracy	
Low battery indicator	
IP54 waterproof case	
Conductivity K = 0,475	
Range Resolution Accuracy	
0,0 to 475µS/cm 0,1µS/cm ±1% of reading +2µS/cm	
475 to 4750µS/cm 1µS/cm ±1% of reading +5µS/cm	
4,75 to 47,50mS/cm 0,01mS/cm ±1% of reading +0,05mS/cm	
47,5 to 200,0mS/cm 0,1mS/cm ±2,5% of reading +0,5mS/cm	
Conductivity K = 0,1	
Range Resolution Accuracy	
0,00 to 99,99µS/cm 0,01µS/cm ±1% of reading	
100 to 200µS/cm 0,1µS/cm ±1% of reading	
Salinity: Range 0.0 to 70.0 -ppt / Resolution 0.1 ppt / Accuracy ±0.2%	
Temperature: Range -10.0 to +90.0 °C /Resolution 0.1 °C / Accuracy ±0.2% or ±4%	
4 wire conductivity cell: K = 0,475	
6 x 1,5 Volt AAA batteries or AC adaptor	
Flexible electrode holder and operating manual	

<u>3. PORTABLE CONDUCTIVITY/TDS SALINITY/TEMP</u>
Simultaneous displays of conductivity, salinity or TDS with temperature measurements.
Convenient one point calibration. Calibration data is stored in memory and is ready for use on power up.
Adjustable TDS coefficient, reference temperature and temperature coefficient
Uses one conductivity cell for conductivity, salinity and TDS measurement
Accepts 4-wire conductivity cells with $k=0,475$ cell constant and 2-wire $K=0,1$ cell constant for improved flexibility and accuracy
50 data set reviewable memory
Automatic shut off function (30 minutes of non-use)
Battery life approx. 200-500 hours
Low battery indicator
IP65 waterproof case
Conductivity $K = 0,475$ Range Resolution Accuracy 0,0 to 475 μ S/cm 0,1 μ S/cm $\pm 1\%$ of reading +2 μ S/cm 475 to 4750 μ S/cm 1 μ S/cm $\pm 1\%$ of reading +5 μ S/cm 4,75 to 47,50mS/cm 0,01mS/cm $\pm 1\%$ of reading +0,05mS/cm 47,5 to 200,0mS/cm 0,1mS/cm $\pm 2,5\%$ of reading +0,5mS/cm
Conductivity $K = 0,1$ Range Resolution Accuracy 0,00 to 99,99 μ S/cm 0,01 μ S/cm $\pm 1\%$ of reading 100 to 200 μ S/cm 0,1 μ S/cm $\pm 1\%$ of reading
Salinity 0-70 ppt Resolution 0.1ppt accuracy $\pm 0,2\%$ Full Scale
Temperature -10,0 to 90,0 $^{\circ}$ C / Resolution 0,1 $^{\circ}$ C / Accuracy $\pm 0,2\%$ or $\pm 4\%$ Full Scale
Included accessories: 1 x 4-wire conductivity with $k=0,475$, 9 V battery, operating manual, carrying case
<u>4.PH meter</u>
Simultaneous displays pH or mV and temperature.
pH Range: -2.00 to 16.00 pH
Resolution: 0.01 pH
Accuracy: ± 0.01 pH ± 1 digit
mV Range: -1999 to +1999 mV
Resolution: 1 mV
Accuracy: $\pm 0.1\%$
Temperature Range: -10.0 to 120.0 $^{\circ}$ C
Resolution: 0.1 $^{\circ}$ C
Accuracy: $\pm 0.5\%$

pH Buffer Recognition: US (4.01, 7.00, 10.01); NIST (4.00, 6.86, 9.18)
pH Electrode Offset Recognition: ± 90 mV at pH 7.00 or 6.86
pH Electrode Slope Recognition: $\pm 30\%$ at pH 4.00, 4.01, 9.18, or 10.01
Temperature Compensation: Automatic or manual (-10.0 to 120.0 °C)
Automatic Calibration: With buffer recognition for European and US buffer sets
Automatic lock mode and end point sensing are available to lock in stable readings.
50 data set reviewable memory.
Automatic shut off function (30 minutes of non-use)
Battery life 1000 hours
Low battery indicator
IP65 waterproof case
Accessories including: ATC probe 6000AST, each 1 x 100 ml BOECO Buffer solution pH 4,01, pH 7,00, 9 V battery, operating manual, carrying case.
<u>5.PH meter</u>
MULTIPARAMETER PH/ORP/TEMP BENCH TOP METER
LCD display with backlight showing pH / ORP and temperature readings
Automatic buffer recognition (NIST and USA)
Automatic or manual temperature compensation
Bluetooth function to connect to tablets
PH range -2.00 to 16.00 pH
PH resolution 0.01 pH
PH accuracy ± 0.01 pH
mV (ORP) range -1999.9 to 1999.9 mV
mV resolution 0.1 mV
Temperature range: -10.0 to 120.0 °C
Temperature resolution / accuracy : 0.1 °C resolution, ± 0.2 °C accuracy
Calibration points Up to 5-point calibration for pH; ORP offset too.
Input impedance $> 1 \times 10^{12} \Omega$
When the unit is connected to a bluetooth device, the user can store data into the device that meets GLP requirements
IP65 waterproof case
Accessories including ATC probe, 500 mL buffers pH 4.01 & 7.00, AC adaptor, electrode holder, operating Manual, 6 x 1,5 V AAA batteries
<u>6.Digital Abbe Refractometer</u>
Refractive index ND: 1.3000-1.7000
Brix BX - TC: 0-95 %
Brix BX: 0-95 %

Refractive index accuracy ND: ± 0.0002
Brix BX accuracy - TC: $\pm 0.1 \%$
Brix BX accuracy: $\pm 0.1 \%$
Temperature displaying range: 0-50°C
Correcting range of BX versus temperature: 15-45°C
Weight (kg): 12,0
Dimensions (mm): 330 x 180 x 380
Included accessories:
Standard sample block
Inner-hexagon spanner
3 x Illuminating bulb(s)
Plastic cover hood
3 x Fuses
Instruction manual
<u>7.Portable Turbidity Meter</u>
On-site turbidity measurement of aqueous samples
Nephelometric method of measurement (90°) compliant with ISO 7027.
Light Source: Infra-red emitting-diode (wavelength ~ 850 nm)
Measurement Range: 0 to 1000 NTU
Accuracy:
$\pm 2\%$ of reading from 0-500 NTU
$\pm 3\%$ of reading from 501-1000 NTU
Repeatability: ± 0.01 NTU or $\pm 1\%$ of reading, whichever is greater (for gel-samples)
Calibration Standards: Supplied with 4 standards: 0.02, 20, 100, 800 NTU
Construction / Casing: ABS material; rugged, portable design
Protection Rating: IP 67
Battery / Power: Up to ~1,200 sample tests from one set of batteries.
Dimensions (W x H x D): 68 x 50 x 155 mm
Measurement Standards: Designed for ISO 7027 compliance in turbidity measurement
Two year warranty