

SPECIFICATION FOR UPRIGHT COMPOUND RESEARCH MICROSCOPE WITH IMAGE ANALYSIS SYSTEM

MICROSCOPE TYPE	ADVANCE RESEARCH MICROSCOPE ATTACHED WITH COMPUTER FOR BRIGHT FIELD, PHASE CONTRAST AND FLUORESCENCE ATTACHMENT ALONG WITH IMAGE ANALYSIS SYSTEM. THE SYSTEM SHOULD HAVE ECO MODE FOR LIGHT MANAGEMENT CONTROL AND SNAP OR PHOTO SWITCH ON MICROSCOPE BODY FOR TAKING PICTURE/IMAGE WHILE VIEWING THE SAMPLE.																		
MAGNIFICATION	40X-1000X FOR OBSERVATION OR BETTER.																		
EYEPIECE & OBSERVATION TUBE	SUPER WIDE FIELD ANWITH FOV 22mm OR MORE , WITH LIGHT PATH SELECTION/LIGHT BEAM SPLITTING FACILITY OF 100/0, 0/100 OR BETTER, INTER PUPILLARY DISTANCE ADJUSTMENT RANGE : 50 – 75 mm. EYE PIECE : 10X / FOV 22 mm FOV WITH DIAOPTER ADJUSTMENT FACILITY ON BOTH EYEPIECE.																		
NOSE PIECE	REVERSED SEXTUPLE REVOLVING NOSEPIECE WITH ANALYZER SLOT.																		
OBJECTIVES	BSET SUITED FOR BIGHT FIELD, PHASE CONTRAST MICROSCOPY, PLAN ACHROMAT OBJECTIVES CAPABLE FOR DOING FLUORESCENCE IMAGING. <table border="1"> <thead> <tr> <th><u>OBJECTIVE</u></th> <th><u>N.A</u></th> <th><u>W.D</u></th> </tr> </thead> <tbody> <tr> <td>PLAN ACHROMAT 4X/5X</td> <td>0.10</td> <td>15.00 MM OR BETTER</td> </tr> <tr> <td>PLAN ACHROMAT 10X PHASE</td> <td>0.25</td> <td>6.5MM OR BETTER</td> </tr> <tr> <td>PLAN ACHROMAT 20X PHASE</td> <td>0.40</td> <td>1.2MM OR BETTER</td> </tr> <tr> <td>PLAN FLUOR 40XPHASE</td> <td>0.75</td> <td>0.66MM, (SPRING-LOADED)</td> </tr> <tr> <td>PLAN FLUOR 100X OIL</td> <td>1.30</td> <td>0.2MM, (SPRING- LOADED))</td> </tr> </tbody> </table>	<u>OBJECTIVE</u>	<u>N.A</u>	<u>W.D</u>	PLAN ACHROMAT 4X/5X	0.10	15.00 MM OR BETTER	PLAN ACHROMAT 10X PHASE	0.25	6.5MM OR BETTER	PLAN ACHROMAT 20X PHASE	0.40	1.2MM OR BETTER	PLAN FLUOR 40XPHASE	0.75	0.66MM, (SPRING-LOADED)	PLAN FLUOR 100X OIL	1.30	0.2MM, (SPRING- LOADED))
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POLARIZER & ANALYZER	POLARIZER AND ANALYZER FOR VIEWING AND IDENTIFYING CRYSTAL SAMPLES BY THE INTERFERENCE COLOR AND OBSERVING BI-REFRINGENT SAMPLES.																		
COARSE/FINE FOCUSING	SMOOTH COARSE AND FINE FOCUSING WITH FOCUSING STOPPER COARSE MOTION TORQUE ADJUSTABLE THOUGH TORQUE ADJUSTMENT KNOB, FINE 0.1MM PER ROTATION/ COARSE 9.33 MM PER ROTATION OR BETTER																		
STAGE	RIGHT HANDLE MECHANICAL STAGE WITH SLIDES HOLDER FOR VIEW TWO SLIDES WITH HARD COATED ANODIZED SURFACE X/Y DRIVE KNOB ATTACHED TO LEFT OR RIGHT FOR OPERATOR CVONVENIENCE, THE STAGE MOVEMENT SHOULD BE MINIMUM 75X 50 MM.																		
ERGONOMICS	ERGONOMIV STAGE AND DRIVE WITH SOFT TOUCH MATERIALS TO INCREASE WORKING COMFORT																		
CONDENSER	UNIVERSAL CONDENSER WITH FOR BRIGHT FIELD, PHASE CONTRAST & DARK FIELD MICROSCOPY APPLICATION																		
ILLUMINATION	HIGH LUMINESCENT UNIFORM LED ILLUMINATION WITH MINIMUM POWER CONSUMPTION, WORKING LIFE SHOULD BE 45,000 HRS OR BETTER, WITH DESIGN TO PROVIDE UNIFORM ILLUMINATION ACROSS ALL CORNERS AT ALL MAGNIFICATIONS																		
EPI-FLUORESCENCE ATTACHMENT	WITH FOUR POSITION FLUORESCENCE FILTER TURRET WITH 100 WATT MERCURY ILLUMINATION WITH FOLLOWING BAND PASS FLUORESCENCE FILTERS- <ol style="list-style-type: none"> 1. FILTER BLOCK UV FOR DAPI/HOECHST (EX 361-389, DM415 AND EM 430-490NM); 2. FILTER BLOCK BLUE FOR FITC/ACRIDINE ORANGE/AURAMINE (EX465-495, DM505 AND EM 515-558NM); 3. FILTER BLOCK GREEN FOR TRITC/RHODAMINE/PROPIUM IODIDE (EX537-552, DM565 AND EM 582-637NM) 																		

DIGITAL COLOR HIGH RESOLUTION CAMERA	DIGITAL COLOR CAMERA CAPABLE OF HANDLING BRIGHT FIELD, DARK FIELD, PHASE CONTRAST & FLUORESCENCE IMAGES WITH 1/1.8" CMOS CHIP, 5.9 MILLION PIXEL OR MORE RESOLUTION, QUANTUM EFFICIENCY 60% OR MORE. LIVE DISPLAY MODE, 12.0 FRAMES/SEC. AT FULL RESOLUTION, MAX 29 FRAME PER /SEC. AT ROI MODE THROUGH BINNING/PIXEL AVERAGING MODE, USB3.0 PORT FOR ATTACHING CAMERA TO DESKTOP/ THROUGH SINGLE WIRE WITH C-MOUNT CAMERA ADAPTER
IMAGE ANALYSIS SOFTWARE	WITH FEATURES FOR IMAGE ACQUISITION AND DEVICE CONTROL, MULTI-CHANNEL IMAGE MERGING, LIVE IMAGE CAPTURE, TIME LAPSE IMAGING, MANUAL MEASUREMENT & OBJECT COUNTING, LARGE IMAGE, REPORT GENERATOR FACILITY, VECTOR LAYER & MULTI- DIMENSIONAL FILE FORMAT ETC.
COMPUTER SPECIFICATIONS	BRANDED COMPUTER WITH I-5 PROCESSOR, 8 GB RAM, 1 TB HDD, KEYBOARD, OPTICAL MOUSE, DVD WRITER, 19" TFT HD COLOR MONITOR, MULTIMEDIA KIT, USB3.0 PORT & CABLE ALONG WITH 2 KVA UPS (COMPATIBLE WITH BACK UP)
NOTE:	<ul style="list-style-type: none"> • MICROSCOPE, CAMERA & SOFTWARE SHOULD BE FROM SAME MANUFACTURER FOR BETTER COMPATIBILITY, INTEGRATION & SERVICE SUPPORT • VENDOR SHOULD ENCLOSE PROPER ORIGINAL CATALOGUE & WEBSITE LINK DETAILS FOR EVALUATION OF QUOTED SYSTEM.
COMPLIANCE CERTIFICATE	<ul style="list-style-type: none"> • THE QUOTED EQUIPMENT SHOULD NECESSARILY ISO/ US-FDA/EUROPEAN CE CERTIFIED.
PERFORMANCE CERTIFICATE WITH USER LIST WITH SUPPLIED ORDER	<ul style="list-style-type: none"> • VENDOR SHOULD ENCLOSE USER LIST WITH DETAILS OF MINIMUM 10 PREMIER GOVERNMENT RESEARCH INSTITUTE TO HAVE SUPPLIED SIMILAR SYSTEM IN LAST 2 YEARS.
WARRANTY	<ul style="list-style-type: none"> • 1 YEAR CMC AND 5 YEARS AMC