

Request for Proposal 101921  
Microscope RFB  
Addendum #1 Questions and Answers  
November 22, 2021

We had a lot of questions on specifications for the microscope. To answer all of these I am attaching more information at the end of this addendum sheet with the specifications needed.

- 1.) Question: I had a few questions regarding the RFB for microscopes. It doesn't seem to specify what capabilities you are looking to purchase, it appears it is just listing all the possibilities for a microscope to be. For example, for illumination it has Halogen, LED, and Illumination Mirror, microscopes only have one of those, not all three. Also, it says a microscope that is capable of Brightfield, Fluorescence, Phase...etc. We have microscopes that are capable of all of that, but are you looking for each microscope to have all of those on them? I think it might be beneficial to have a conversation with the end user and find out what specs they need in a microscope. Like what light source they want, what objectives...etc. Also, would I be able to bring in one of our microscopes to demo? I would imagine it would more than likely they are looking for Brightfield applications, but please let me know, I appreciate it!

Partial Answer: A demo may be done after bids are received not before.

- 2.) Question: I am wondering if the price for microscopes with brightfield, darkfield, phase contrast, fluorescence and polarization. or just you want the ability to be able to add these options?

Answer: Detailed specs will be at the end of this addendum.

- 3.) Question: My email is in regards the bid # 101921 Microscope RFB. We need specifics on the applications, to offer the appropriate microscope.

We need a more detail specification:

- Transmitted light, brightfield
- Darkfield
- Phase contrast
  
- Fluorescence
- Simple polarization contrast
- Illumination
- Transmitted light: HAL 30 (halogen), illumination mirror
- Reflected light: LED fluorescent reflected light

Answer: Detailed specs will be at the end of this addendum.

- 4.) Question: I am working on our bid response for RFB #101921. I have a couple of questions. We are already registered with WVOasis.gov so do we need to fill out and return Exhibit A Vendor Registration Form with our bid proposal? As a side note we just had to pay our \$125 registration with them, but they are having technical difficulties and the system has not updated our status as of yet. They said this is completely their issue and they are working to get it resolved. I just wanted to make sure there will not be any red flags with the bid because of this.

It appears like I need to submit the following documents with my bid. Is this correct?

- W9
- Secretary of State business license
- Exhibit C Purchasing Affidavit
- Signed Title Page
- 1 reference
- Simple bid response
- Complete description of how work will be conducted
- Estimated schedule of completion of work
- 2 hard copies of bid

Answer: If you are already a vendor of the state you do not need to fill out Exhibit A vendor registration form. All of the documents listed are required to be submitted with your bid.

- 5.) Question: Where do I send the bid? Is this the address to mail it to? Thanks!

2900 Dempsey Branch Road

Mount Gay, WV 25637

Answer: Yes, please send bid responses to Attention: Velva Pennington, Southern West Virginia Community and Technical College, P.O. Box 2900 Dempsey Branch Road, Mount Gay, WV 25637

- 6.) Question: The RFB does not state which objective magnifications you are looking for. I am assuming 4x, 10x, 40x, and 100x objectives. Some models come with 4x, 10x, and 40x with the 100x being optional. Our quotation will include the price for the microscopes and the 100x objectives as two separate line items.

Answer: Detailed specs will be given at the end of this addendum.

Detailed Specs of microscope below. The microscope needs to be an equal or comparable microscope to the ZEISS System Primostar 3.

### **ZEISS System Primostar 3**

#### **Microscopes**

Stand Upright

Optical system Infinite TL180\*

Minimum viewing height in mm 370 mm to 410 mm

Eyepiece suitable for wearers of glasses

Field of view in mm 20/22

Integrated carrying handle

Integrated solution to accommodate cable when stored

Power supply External, on the stand

Intensity indicator for illumination

#### **Contrasting Techniques**

Transmitted light, brightfield

#### **Illumination**

Full Köhler

LED transmitted light illumination

Plug-in mirror fixed Köhler

#### **Camera and Digital Classroom**

Integrated 8.3 MPx HD with numerous interfaces and flexible setup (USB 3.0, HDMI, Ethernet, Wi-Fi compatible). Comparable to the specifications listed below. Documentation with integrated WiFi camera in all objectives is required.

Integrated 4K microscope camera	
Sensor type	Sony CMOS image sensor color, Rolling Shutter
Sensor size	Image diagonal 8.1 mm, equivalent to 1/2.1" (7.1 mm x 4.0 mm)
Pixel count	3840 (H) x 2160 (V) = 8.3 MP, Ultra HD (4K)
Pixel size	1.85 µm x 1.85 µm
Bit depth	3 x 8 bit/pixel
Exposure range	0.06 ms up to 1 s
Gain	1x – 22x adjustable
Frame rate	HDMI: 30 fps Ethernet: 30 fps USB 3.0: up to 30 fps
Cooling system	Passive cooling
Spectral sensitivity	Approx. 400 nm – 700 nm, IR filter RGB Bayer color mask
Interface	HDMI, USB 3.0 Type C, Ethernet, Micro-D
Wi-Fi compatibility	Via USB Wi-Fi adapter and router
Power supply	External power supply provided, 9 W, compatibility to international sockets available
Operating system	for ZEN Imaging Software: Windows 10 x64 Prof./Ultimate and higher for Labscope: Windows 7/10 x64 Prof./Ultimate and iOS v11 and higher
Software	On Screen Display (OSD) for stand alone Labscope v2.9 (win), v2.8.3 (iOS) and higher ZEN (blue edition) v3.0 and higher TWAIN driver
Image enhancement functions	Active denoising, active sharpening, HDR
Automatic features	Automatic exposure and gain regulation at Ultra HD resolution (4K), auto white balance, fast live image under low light conditions

Use free of charge Labscope App (or comparable free app) on your Windows PC or iOS device to create images, movies, and share your results with peers.

### Accessories

Binocular eyepiece 10x

Objective lenses (4x, 10x, 20x, 40x, 100 Oil), transmitted light mirror required;

Eyepiece pointer and crossline micrometer preferred

Abbe condenser