

Oakland University

REQUEST FOR QUOTATION (RFQ)

Benchtop X-ray Micro-Computed Tomography Scanner

FILE 00215

Issue Date: March 13, 2025

Questions Due: March 20, 2025 by 2PM Local Time

Sealed Quotations Due: March 28, 2025 by 2PM Local Time

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SECTION I – BACKGROUND

1.01 Oakland University Background Information

Oakland University (University) is a world-class academic institution located on 1,443 acres of wooded hills and meadows in Rochester, MI. The university was established in 1957 through a generous donation from founders Alfred and Matilda Dodge Wilson. Oakland University celebrated the 50th anniversary of its founding in 2007. When it opened in 1959, 570 students were enrolled, and the charter class graduated in 1963 with 125 students receiving diplomas. Today, nearly 16,000 students attend classes at OU, and our alumni total has grown to approximately 100,000.

As a state-supported institution of higher education, Oakland University has been recognized and is classified as a doctoral research university by the Carnegie Foundation for the Advancement of Teaching. With 139 baccalaureate degree programs and 127 graduate degree and certificate programs, Oakland provides a distinct educational experience with flexible class schedules and state-of-the-art facilities, student services, classroom technologies, research labs, internships and research opportunities with corporate partners. Located in the heart of Oakland County's Automation Alley, the university has forged hundreds of partnerships with hospitals, Fortune 500 companies, cities, government agencies and educational institutions.

All questions regarding this Request for Quotation should be directed to:

Julie Hamilton

Buyer

Oakland University, Purchasing Department

411 Pioneer Drive

Rochester, Michigan 48309

Phone No. (248) 370-4199

Email hamilton@oakland.edu

1.02 RFQ Overview

Oakland University (OU) is soliciting proposals for a new research grade Benchtop X-ray Micro-Computed Tomography Scanner.

SECTION II – SCOPE OF WORK

2.01 Statement of Requirements

The following are minimum requirements for the system. If your product varies in any way from these requirements, please denote in your bid response.

Benchtop X-ray Micro-Computed Tomography Scanner (research grade)

Specifications

- Benchtop Unit

- System Geometry
 - X-ray geometry: Cone beam with sample rotation

- Source to detector distance: Selectable, 224 - 430 mm
 - Source to sample: Selectable, 18.5 – 330 mm
- Imaging Capabilities
 - Best voxel resolution: 2.1 - 100 μm
 - Field of view (FOV): 5 - 200 mm diameter
 - Shortest scan time: 18 seconds
- X-ray Source:
 - Applied voltage: 30 – 130 kV, user adjustable
 - Power (load): 39 W
 - Filament current: 20 – 300 μA , user adjustable
 - Focus size: Minimum 5 μm
 - X-ray target: W
- Sample Stage:
 - Sample size: Maximum 200 mm ϕ x 270 mmH, 5 kg
 - Sample rotation: 0 – 360 degree, computer controlled
 - Sample holders: 5, 12, 25 mm ϕ cylinders and 130 mm ϕ plate
- Sample positioning stage:
 - X and Y axes: - 3 – 3 mm, computer controlled
 - Z axis: 0 – 140 mm, computer controlled
- Optical sample vision:
 - Sample monitor: CCD camera
 - View direction: Top view of sample
- X-ray Camera:
 - Type: Solid-state flat panel
 - Detector pixel size: 49.5 μm
 - Detector size: 7 MP, 2352 x 2944 pixels (116.4 x 145.7mm)
 - Output range: 14 bit
- Field of view (FOV)
 - Standard scan FOV: 5 mm ϕ x 4 mmH – 107 mm ϕ x 72 mmH
 - Offset scan FOV: 200 mm ϕ x 57 mmH
 - Multiple FOV: Multiple FOV stitching available
- Correction
 - Background correction: Automatic background measurement and correction
 - Flat field correction: Automatic flat field measurement and correction
- Data collection software
 - XG control: X-ray source on, off, warm-up, kV and μA settings

- Camera control: Live monitor and CT scan modes
- Stage control: Sample rotation, sample position
- Geometry correction: Automatic geometry correction measurement
- Measurement modes: Single still projection, live projection, continuous CT scan, step CT scan
- CPU Specifications
 - OS: Windows 10 or higher
 - Memory: 128 GB
 - Storage: 512 GB SSD + 8 TB HDD
 - Professional-grade graphics card
- Reconstruction Software
 - Method: Filtered back projection
 - Supported scan methods: Full scan and offset scan
 - Focusing correction: Auto-focus correction
 - Artifact reduction: Ring artifact reduction, beam hardening correction
- Service Support
 - Service support to be provided directly by the manufacturer.
- Power Requirements
 - 100 - 120 VAC, 1-phase, 15 A
 - 200 - 240 VAC, 1-phase, 8 A

SECTION III - RFQ PROPOSAL CONTENT AND REQUIREMENTS

Proposal Content: Respondents are instructed to complete, sign (if required), and return the following documents in the following order as their proposal submittal.

Responses must include the following OU required documents:

- A signed copy of the RFQ indicating the Supplier agrees to the RFQ in its entirety, including Oakland University's Terms and Conditions
- Schedule A - Addendum Acknowledgement
- Schedule B – Insurance Acknowledgement
- Schedule C – Cost Proposal in Excel format
- Schedule D – Detailed Proposal
- Schedule E – Specification Exceptions

Failure to submit information in accordance with the RFQ requirements and procedures may be cause for disqualification.

3.01 Cost/Fees

Proposals must include a fee schedule for the goods and/or services being proposed. The schedule should indicate all proposed costs will be held firm for a period of at least one hundred twenty (120) days following submission of the proposal.

Firms must clearly and unambiguously specify the cost of the equipment in their proposals. Any reimbursable fees should be identified separately.

Any other taxes, fees, or commissions applicable to the proposed contract are the responsibility and liability of the proposer, who must include these cost items in the price of the goods and services.

3.02 Freedom of Information Act Requests

The Supplier understands that the University complies with the Michigan Freedom of Information Act ("FOIA") and that the University may provide Confidential Information to other persons or entities upon receipt of a FOIA request. Section "z" of the FOIA states that security information is exempt from disclosure.

A FOIA request must be submitted in writing to the FOIA Office (or Coordinator). The request may be transmitted in hard copy, by email, or by facsimile. Refer to Oakland University's website for procedures and guidelines to submit a FOIA request - <https://www.oakland.edu/policies-regulations/FOIA/>.

SECTION IV – EVALUATION

4.01 Evaluation Criteria for Award

Proposals will be evaluated by the University based upon criteria and requirements within the RFQ on specifications and detailed proposal, and to Oakland University's estimation of how well the Supplier will be able to address the requirements as outlined in this RFQ response. If there are portions of any proposal the University finds unacceptable or otherwise in need of clarification or revision, the University reserves the right to negotiate with any or all Suppliers. Any exceptions to the specifications or any other special considerations or conditions requested or required by Supplier will be enumerated by the Supplier and submitted as part of its Proposal, together with an explanation as to the reason the specifications cannot be met. Each Supplier will be required and expected to meet the specifications in their entirety.

The evaluation of proposals has one basic objective: to determine whether the proposer meets the requirements set forth in this RFQ and has the best value proposal to the University. All information must be legible, in order, and easily interpreted. Pricing, the ability to meet the University's needs, and the efficiency of the Supplier's ordering process should be clear and concise. At Oakland University's sole discretion, incomplete packages may be rejected.

4.02 Process for Award

Without limitation and at its sole option, OU reserves the right to accept or reject any or all submissions, to take exception to these RFQ specifications, to negotiate with finalists, or to waive any informality and

to accept any response which the University deems to be in its best interest. Firms may be excluded from further consideration for failure to fully comply with the specifications of this RFQ.

OU may decide to reject all proposals and/or to reissue this RFQ with modifications. OU will not award contracts to proposers that are debarred, suspended or otherwise determined ineligible by, nor to proposers that OU has determined to be non-responsible.

OU reserves the right to make an award based solely on the original quotations received or to negotiate further with proposers. The proposer selected for the award will be chosen on the basis of an assessment of the greatest benefit to OU, not necessarily on the basis of lowest price. OU also reserves the right to negotiate and award any element of this RFQ, make multiple awards, reject any or all proposals or waive any minor irregularities or technicalities in proposals received as the best interest of OU may require.

SECTION V - PROCUREMENT PROCESS

5.01 Submission Method, Date and Time

One (1) copy of the sealed proposal shall be submitted electronically. All responses must be submitted online via Grizzfiles. If you plan to submit a proposal, please request an upload link at least five days prior to the bid submittal by emailing hamilton@oakland.edu. Put the proposal number and name in the subject line. Proposals must be received **by March 28, 2025 @ 2:00 P.M. Eastern Time**. Proposals will not be opened publicly. It is the firm's responsibility to ensure that its proposal is delivered at the proper time and place.

Expenses for developing and presenting responses to this RFQ shall be the entire responsibility of the Supplier and shall not be chargeable to the University. All supporting documentation and manuals submitted with this proposal will become the property of the University.

Unless otherwise stated above, proposals submitted are to be in accordance with the outline and specifications contained and are to remain in effect a minimum of 120 days from the date of submission, and may be subject to further extensions as negotiated.

OU reserves the right to accept or reject any or all proposals, and may cancel this solicitation at any time for any reason at the university's discretion.

5.02 Questions and Interpretations

All inquiries to this RFQ must be submitted in writing hamilton@oakland.edu by **March 20, 2025 @ 2:00 P.M. Eastern Time**. An Addendum will be issued with responses to all questions received.

5.03 Withdrawal of Proposals

Proposals may be withdrawn by written notice to the prescribed OU Buyer, prior to the proposal deadline date. Negligence on the part of the Supplier in preparing the proposal confers no right of withdrawal or modification of the proposal after the proposal deadline has elapsed.

5.04 Price and Scope of Work Changes

All proposals should be firm and not subject to change by the Supplier for a period of one hundred twenty days (120) from the proposal deadline date. Note, however, OU reserves the option to negotiate prices downward and to negotiate additional scope of work and cost changes based on final negotiations with the selected Supplier.

5.05 Mistakes in Proposals

If a mistake in a proposal is suspected or alleged, the proposal may be corrected or withdrawn prior to the due date for this solicitation. If negotiations are not held, or if best and final offers have been received, the Firm may be permitted to correct a mistake in its proposal and the intended correct offer may be considered based on the conditions that follow:

The mistake and the intended correct offer are clearly evident on the face of the proposal.

The Firm submits written evidence which clearly and convincingly demonstrates both the existing offer, and such correction would not be contrary to the fair and equal treatment of other Firms.

Mistakes discovered after award shall not be corrected unless OU Counsel makes a written determination that it would be disadvantageous to OU not to allow the mistake to be corrected. The approval or disapproval of requests of this nature shall be in writing by OU's Legal Counsel.

5.06 Execution of Proposals

The original proposal must contain a manual or electronic (date and time stamped) signature of an authorized representative of the Proposer. The proposal must be typed or printed in ink. All corrections made on the proposal sheets must be initialed by the authorized representative. The company name must appear on each sheet. The proposal must include all documents, materials and information required herein.

SECTION VI – GENERAL CONDITIONS

6.01 Terms and Conditions

Any contract resulting from this Request for Proposal is subject to and shall be performed in accordance with the University's General Terms and Conditions for Agreement located at the following: [OU Terms & Conditions](#).

The University's preferred payment method is with a University credit card (Pcard). **The University will not accept convenience fees or increased pricing due to Pcard payment.** The University is tax exempt, State of Michigan tax is not applicable.

Any person, firm, corporation or association submitting a proposal shall be deemed to have read and understood all the terms, conditions and requirements in the specifications/scope of work.

Upon University request, the awarded supplier must agree to provide independently audited financial statements including its statement of financial position, statement of operations, and statement of cash flows for at least the past three years. Furthermore, the Contractor must agree to permit the University, upon request, to audit privileges, related to the University's account. Failure to agree to this may result in disqualification of your bid.

Purchase Orders issued to the Supplier throughout the term of an agreement for services shall be subject to any and all of the provisions noted in this RFQ. If there is a discrepancy between the information stated in this RFQ and the University's T&Cs, the T&Cs will apply.

This RFQ in no manner obligates the University to the eventual purchase of any products or services described, implied, or which may be proposed, and may be terminated by the University without penalty or obligation at any time.

Expenses for developing and presenting proposals will be the entire responsibility of the Supplier and will not be chargeable to the University. All supporting documentation and manuals with this proposal will become the property of the University.

The Supplier understands that the University complies with the Michigan Freedom of Information Act ("FOIA") and that the University may provide Confidential Information to other persons or entities upon receipt of a FOIA request. Section "z" of the FOIA states that security information is exempt from disclosure.

Smoke Free Campus: Effective Fall 2013, the University is smoke-free. Contractors are responsible to ensure that all employees and all subcontractors' employees are in compliance anytime they are on Oakland's main, or extension center campuses. The complete policy can be found at [Policy 475](#).

6.02 Conflict of Interest

The Supplier affirms that to the best of its knowledge there exists no actual or potential conflict-of-interest between the Supplier's family, business, or financial interests and providing the Services. The Supplier will not attempt to influence any University employee by the direct or indirect offer of anything of value. The Supplier also warrants that no officer or employee of the University has or will have a direct or indirect personal financial interest in the Agreement. The Supplier also affirms that neither the Supplier nor any of its employees has paid or agreed to pay any person, other than bona fide employees and consultants working solely for the Supplier, any fee, commission, percentage, brokerage fee, gift or any other consideration contingent upon or resulting from the execution of an Agreement.

In the event of change in either Supplier's interests or Services under this Agreement, the Supplier will inform the University regarding all possible conflicts-of-interest which may arise as a result of such change. The Supplier agrees that conflicts-of-interest will be resolved to the University's satisfaction or the University may terminate the Agreement.

Oakland University reserves the following rights: to accept or reject any bid; to reject all bids' to waive any formalities or irregularities contained in a bid that do not comply with the terms and conditions of the invitation to bid, any modifications to the invitation to bid, or any specifications; to select the bid and/or items that in the sole and absolute discretion of Oakland University are in Oakland University's best interest whether or not the bid selected is the lowest monetary bid received.

6.03 Cost of Proposal

Suppliers are responsible for all their costs associated with the preparation of proposals. All costs incurred, directly or indirectly, associated with the preparation of proposals shall be the sole responsibility of and shall be borne by the respondents.

6.04 Form of Purchase

The acceptance of the proposed Firm's offer for the product/services specified herein will be made by issuance of a duly authorized contract or purchase order prepared by OU. Suppliers are cautioned to make no assumptions or accept any representations by any employee, member, officer or representative of OU concerning the award until a contract agreement is executed.

6.05 Government Restrictions

In the event any governmental restrictions may be imposed which would necessitate alteration of the material, quality, workmanship or performance of the goods or services offered, it shall be the responsibility of the successful Firm to immediately notify OU in writing specifying the regulation which requires alteration. OU reserves the right to accept any such alteration, including any reasonable price adjustments occasioned thereby, or to cancel the contract at no expense to OU.

6.06 Nonconformance to Conditions/Specifications/Scope of Services

Services will be inspected for compliance with specifications. Services not conforming to specifications may not be accepted at the Firm's expense. Services not provided in accordance with the Scope of Services may result in the Firm being found in default. In the event of default all procurement costs may be charged against the Firm. Any violations of these stipulations may result in the Firm's name being removed from OU's proposal mailing list.

6.07 Assignment or Transfer

The successful Firm shall not assign or transfer any interest in any subsequent contract, in whole or part, without written approval of OU. Claims for sums of money due, or to become due from OU pursuant to the contract may be assigned to a bank, trust company or other financial institution. OU is hereby expressly relieved and absolved of any and all liability in the event a purported assignment or subcontracting of the contract is attempted in the absence of the Firm obtaining OU's prior written consent.

6.08 Patents - Licenses and Royalties

The successful Firm shall indemnify and save harmless OU and its employees from liability of any kind, including cost and expenses for or on account of any copyrighted, patented, or not patented invention, process or article manufactured or used in the performance of the contract, including its use by OU. If the Supplier uses any design, device or material covered by letters, patent, or copyright, it is mutually agreed and understood that the proposal prices shall include all royalties or cost arising from the use of such design, device or materials involved in the work. Further all residual right to Patents, Licenses and Royalties (e.g., software and license to use same purchased) shall revert to OU at the end of the Agreement.

6.09 Permits and Licenses

The successful Firm shall obtain all permits and licenses that are required for performing its work. The Firm shall pay all related fees and costs in connection with required permits and licenses. Proof of ownership shall be made on all software used in the execution of the contract. The Firm will hold OU harmless for any violation of software licensing resulting from breaches by employees, owners, and agents of the Firm.

6.10 Taxes

The successful Firm is responsible for all state and federal payroll and/or social security taxes. The Firm shall hold OU harmless in every respect against tax liability.

6.11 Insurance Requirements

The awarded Supplier will be required to obtain insurance protecting Oakland University, Supplier and any subcontractor of Supplier performing services covered by the RFQ. The awarded Supplier agrees to immediately comply with the insurance provisions and maintain insurance levels at its sole expense. Supplier shall provide acknowledgement and evidence of such insurance prior to execution of the Contract, found in **Schedule B**. If you cannot currently meet the requirements, proposals must include a statement agreeing to meet these requirements at no additional cost by the time of contract signing. Failure to meet this requirement may cause the proposal to be considered non-responsive and subject to disqualification.

6.12 Proof of Insurance

The successful Firm shall furnish to OU a certified copy of the policy or policies covering the work as required in the specifications as evidence that the insurance required will be maintained in force for the entire duration of the contract with OU. OU must be listed as an additional insured.

6.13 Federal, State and Local Reporting Compliance

The Firm shall provide such financial and programmatic information as required to comply with all Federal, State, and local law reporting requirements.

6.14 Notices

All written notices required to be given by either party under the terms of the contract(s) resulting from the contract award shall be addressed to the Firm at their legal business residence as given in the contract. Written notices to OU shall be addressed as provided in the contract.

6.15 Cancellation

Irrespective of any default hereunder, OU may also at any time at its discretion cancel any subsequent contract related to this solicitation, in whole or in part. In the event of cancellation, the Firm shall be entitled to receive equitable compensation for all work completed and accepted prior to such termination or cancellation as shall be indicated in the contract.

6.16 Travel

All travel and miscellaneous expenses related to this solicitation will be borne by the Firm unless otherwise provided in the contract for services.

6.17 Non-Discrimination

In accordance with the U.S. Constitution and all federal legislation and regulations governing fair employment practices and equal employment opportunity including, but not limited to Title VI (42 USC 2000d, et seq.) and Title VII (42 USC 2000e, et seq.) of the Civil Rights Act of 1964 (P.L. 88-352, 78 Stat. 241) and the U.S. Department of Justice regulations (28 CFR Part 42, et seq.) and the U.S. Department of Labor regulations (29 CFR Part 1601, et seq.) issued pursuant to those Titles, Executive Order 11246 (September 24, 1965) as amended, the Michigan Constitution and all state laws and regulations governing fair employment practices and equal employment opportunity, including but not limited to the Michigan Civil Rights Act (P.A. 1976 No. 453) and the Michigan Handicappers Civil Rights Act (P.A. 1976 No. 220), the Contractor agrees that it shall not discriminate against any employee or applicant for employment with respect to hire, tenure, terms, conditions or privileges of employment because of religion, race, color, national origin, age, sex, sexual orientation, height, weight, marital status or handicap that is unrelated to the individual's ability to perform the duties of a particular assignment or position. The Contractor hereby recognizes the right of the United States and the State of Michigan to seek judicial enforcement of the foregoing covenant against discrimination, against itself or its subcontractors connected directly or indirectly with the performance of this Contract.

This award is subject to the Department of Commerce Financial Assistance Standard Terms and Conditions and the requirements under 2CFR 200.

ACCEPTANCE

Please indicate your acceptance of Oakland University’s Terms and Conditions and the provisions stated in this RFQ in the space provided below. Complete the information at the bottom of this document and return this signed page with your RFQ response.

Thank you.

ACCEPTANCE ACKNOWLEDGEMENT:

I have reviewed and do accept Oakland University’s Terms and Conditions as stated on the University web page. I have read and agree to abide by the terms of this RFQ. I also acknowledge that I am a legally authorized representative of the business entity noted below and, as such, have the authority to enter into agreements and make commitments on its behalf:

Company: _____ Address:
Authorized Signature: _____ Date:
Printed Name: _____ Title:
Phone #: _____ Email:

NOTE: OAKLAND UNIVERSITY RESERVES THE FOLLOWING RIGHTS: TO ACCEPT OR REJECT ANY BID; TO REJECT ALL BIDS; TO WAIVE ANY FORMALITIES OR IRREGULARITIES CONTAINED IN A BID THAT DO NOT COMPLY WITH THE TERMS AND CONDITIONS OF THE INVITATION TO BID, ANY MODIFICATIONS TO THE INVITATION TO BID, OR ANY SPECIFICATIONS; TO SELECT THE BID AND/OR ITEMS THAT IN THE SOLE AND ABSOLUTE DISCRETION OF OAKLAND UNIVERSITY ARE IN OAKLAND UNIVERSITY’S BEST INTEREST WHETHER OR NOT THE BID SELECTED IS THE LOWEST MONETARY BID RECEIVED.

SCHEDULE A – Addendum Acknowledgement

ADDENDA:

The undersigned affirms that the cost of all work covered by the following Addenda are included in the price of this proposal.

Addendum No. _____ Date: _____ Addendum No. _____ Date: _____

Addendum No. _____ Date: _____ Addendum No. _____ Date: _____

Addendum No. _____ Date: _____ Addendum No. _____ Date: _____

Firm Name:

SCHEDULE B-INSURANCE REQUIREMENTS ACKNOWLEDGEMENT

, at its sole expense, shall cause to be issued and maintained in full effect for the term of this agreement, insurance as set forth hereunder:

Workers' Comp:	Statutory Limits & EL \$1,000,000
Commercial General Liability:	\$1,000,000 per occurrence, \$2,000,000 aggregate
Auto Liability:	\$1,000,000
Excess (Umbrella):	\$2,000,000 per occurrence

Respondents must provide an insurance certificate as part of their proposal submittal showing evidence of insurance. If you cannot currently meet the requirements proposals must include a statement agreeing to meet these requirements at no additional cost by the time of contract signing. Failure to meet this requirement in your RFQ response may eliminate your company's proposal.

1. Oakland University and its Board of Trustees must be listed as an "Additional Insured" on the Certificate of Insurance.
2. Supplier must provide an insurance certificate before commencing service delivery, must keep the certificate up-to-date, and must forward copies of all revised certificates of insurance to the Risk Management Department at Oakland University within thirty (30) days of the change.
3. Notice of cancellation must be submitted thirty (30) days prior to the termination of the insurance coverage.
4. Awarded Supplier shall notify the University of any Accidents and/or claims, including without limitation accidents or claims involving bodily injury, death or property damage, arising on or within the Licensed Premises. Such notice shall be provided in writing as soon as practicable, however in any event within five days of Awarded Supplier's receipt of notice of the accident or claim.
5. Required insurance coverage and any self-insured retention may be required to be modified by the University if, in the sole judgment of the University, the levels of risk associated with Awarded Supplier's operations require modification of such coverage.
6. Failure of the Awarded Supplier to obtain and maintain appropriate insurance as specified by the University, without gap, may be deemed a material breach of this license and at the sole discretion of the University may be cause for contract termination.

Exceptions to the above insurance requirements are to be approved, in writing, by the Office of Risk Management. Exceptions are determined by the type and nature of the contract and the individual contractor.

SCHEDULE D - DETAILED PROPOSAL

IMPORTANT: The Following must be included with your bid response:

1. Product Documentation with detailed specifications – attached and marked for identification as:
2. Warranty Documentation
 - a. Standard warranty – attached and marked for identification as:
 - b. Extended warranty – attached and marked for identification as:
3. Provide detailed information on the software and any required license agreement. Information attached and marked for identification as:
4. Guaranteed Shipment (Days):
5. Please provide details on how to access and what is included with the free technical support.
6. Do you provide instrument specific training courses? If yes, please provide information on what is included and how the course is delivered (in person; online; recorded, etc). _____
7. Please describe what is involved in the installation process. What items will the University be required to complete? _____
8. Please state where your product is manufactured. _____

SCHEDULE E – SPECIFICATION EXCEPTIONS

IMPORTANT: The Following must be included with your bid response:

Firms must state if their proposed equipment meets or exceeds all system requirements as stated in Section 2.01 Statement of Requirements.

Mark the appropriate box for each item whether it meets, exceeds or is an exception to the listed specifications. If exceeds or is an exception, provide in a separate document detail for each.

X-ray Micro-Computed Tomography Scanner

Requirement	Meets	Exceeds	Exception
Benchtop Unit			
System Geometry			
<ul style="list-style-type: none"> X-ray geometry: Cone beam with sample rotation 			
<ul style="list-style-type: none"> Source to detector distance: Selectable, 224 - 430 mm 			
<ul style="list-style-type: none"> Source to sample: Selectable, 18.5 – 330 mm 			
Imaging Capabilities			
<ul style="list-style-type: none"> Best voxel resolution: 2.1 - 100 μm 			
<ul style="list-style-type: none"> Field of view (FOV): 5 - 200 mm diameter 			
<ul style="list-style-type: none"> Shortest scan time: 18 seconds 			
X-ray Source			
<ul style="list-style-type: none"> Applied voltage: 30 – 130 kV, user adjustable 			
<ul style="list-style-type: none"> Power (load): 39 W 			
<ul style="list-style-type: none"> Filament current: 20 – 300 μA, user adjustable 			
<ul style="list-style-type: none"> Focus size: Minimum 5μm 			
<ul style="list-style-type: none"> X-ray target: W 			
Sample Stage			
<ul style="list-style-type: none"> Sample size: Maximum 200 mmφ x 270 mmH, 5 kg 			
<ul style="list-style-type: none"> Sample rotation: 0 – 360 degree, computer controlled 			
<ul style="list-style-type: none"> Sample holders: 5, 12, 25 mmφ cylinders and 130 mmφ plate 			
Sample Positioning Stage:			
<ul style="list-style-type: none"> X and Y axes: - 3 – 3 mm, computer controlled 			
<ul style="list-style-type: none"> Z axis: 0 – 140 mm, computer controlled 			
Optical Sample Vision:			
<ul style="list-style-type: none"> Sample monitor: CCD camera 			
<ul style="list-style-type: none"> View direction: Top view of sample 			
X-ray Camera:			
<ul style="list-style-type: none"> Type: Solid-state flat panel 			
<ul style="list-style-type: none"> Detector pixel size: 49.5 μm 			
<ul style="list-style-type: none"> Detector size: 7 MP, 2352 x 2944 pixels (116.4 x145.7mm) 			
<ul style="list-style-type: none"> Output range: 14 bit 			
Field of View (FOV)			
<ul style="list-style-type: none"> Standard scan FOV: 5 mmφ x 4 mmH – 107 mmφ x 72 mmH 			
<ul style="list-style-type: none"> Offset scan FOV: 200 mmφ x 57 mmH 			
<ul style="list-style-type: none"> Multiple FOV stitching available 			
Correction			
<ul style="list-style-type: none"> Automatic background measurement & correction 			
<ul style="list-style-type: none"> Automatic flat field measurement and correction 			

SCHEDULE E – SPECIFICATION EXCEPTIONS - Continued			
Requirement	Meets	Exceeds	Exception
Data Collection Software			
<ul style="list-style-type: none"> • XG control: X-ray source on, off, warm-up, kV and μA settings • Camera control: Live monitor and CT scan modes • Stage control: Sample rotation, sample position • Geometry correction: Automatic geometry correction measurement • Measurement modes: Single still projection, live projection, continuous CT scan, step CT scan 			
CPU:			
<ul style="list-style-type: none"> • OS: Windows 10 or higher • Memory: 128 GB • Storage: 512 GB SSD + 8 TB HDD • Professional-grade graphics card 			
Reconstruction Software			
<ul style="list-style-type: none"> • Method: Filtered back projection • Supported scan methods: Full scan and offset scan • Focusing correction: Auto-focus correction • Artifact reduction: Ring artifact reduction, beam hardening correction 			
Power Requirements:			
<ul style="list-style-type: none"> • 100 - 120 VAC, 1-phase, 15 A • 200 - 240 VAC, 1-phase, 8 A 			