

INVITATION FOR BIDS (IFB) NO. 24-7960  
FURNISH, DELIVER, AND INSTALL  
AUDIO/VISUAL EQUIPMENT  
AT WEBSTER 101  
FOR  
UNIVERSITY OF HAWAII AT MANOA  
HONOLULU, HAWAII

FEBRUARY 2024

BOARD OF REGENTS  
UNIVERSITY OF HAWAII  
HONOLULU, HAWAII

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**IT IS THE RESPONSIBILITY OF ALL BIDDERS TO CHECK THE TABLE OF CONTENTS TO CONFIRM THAT ALL PAGES LISTED THEREIN ARE REVIEWED AND THAT THE MANDATORY BID FORM IS SUBMITTED AS PART OF THEIR BID PACKAGE.**

## NOTICE TO BIDDERS

University of Hawaii IFB No. 24-7960, Furnish, Deliver, and Install Audio/Visual Equipment at Webster 101 for the University of Hawaii at Manoa, will be issued via the Hawaii Electronic Procurement System (HlePRO). **Bids must be submitted via HlePRO no later than 2:30 p.m. HST, March 8, 2024. Bids received after the bid due date and time or not submitted via HlePRO will not be considered.**

Bidders are advised to allow ample time for submitting their bid to ensure the submission process is completed and timely. **Bidders are solely responsible for ensuring their bid submission is completed prior to the bid due date and time.** The University shall not be responsible for any delay or failure of Bidders in submitting a complete bid.

### **ELECTRONIC PROCUREMENT**

Bidders interested in responding to this solicitation must be registered on HlePRO. To register, visit the URL: [https://hiepro.ehawaii.gov/videos/video/vendor\\_registration.html](https://hiepro.ehawaii.gov/videos/video/vendor_registration.html). Reference the Vendor Quick Reference Guide for additional information at <https://hiepro.ehawaii.gov/static-resources/VendorQuickReferenceGuide.pdf>.

HlePRO is the system of record for issuing IFB No. 24-7960 and related amendments (including changes to the bid due date and time). In addition, HlePRO is the sole vehicle for Questions, Requests for Clarification, Bid Submittals (i.e., MANDATORY BID FORM and related attachments) and Notification of Award. Bidders shall review all special instructions in HlePRO related to this IFB which are made a part of this IFB through reference.

### **QUESTIONS AND REQUESTS FOR CLARIFICATION**

Questions and Requests for Clarification regarding the Technical Specifications or any other aspect of the IFB must be submitted via HlePRO by **2:00 p.m. HST, February 29, 2024**. Responses are scheduled to be posted on **March 4, 2024**.

The University shall not be required to answer Questions or Requests for Clarification not submitted via HlePRO or received after the Questions and Requests for Clarification deadline.

David Lassner  
President, University of Hawaii

Posting Date: February 26, 2024

***Vendors are responsible for notifying the Procurement Specialist Michele Elmore (e-mail: [mseomore@hawaii.edu](mailto:mseomore@hawaii.edu)) for accessibility concerns related to this IFB.***

## BID REQUIREMENTS

### FURNISH, DELIVER, AND INSTALL AUDIO/VISUAL EQUIPMENT

Submission of the **MANDATORY BID FORM** via HlePRO confirms a bidder has carefully examined the INVITATION FOR BIDS (IFB) NO. 24-7960, FURNISH, DELIVER, AND INSTALL AUDIO/VISUAL EQUIPMENT AT WEBSTER 101 FOR THE UNIVERSITY OF HAWAII AT MANOA, HONOLULU, HAWAII, and offers to furnish, deliver, and install audio/video equipment to the University of Hawaii at Manoa, Office of Faculty Development and Academic Support, 1733 Donaghho Road, Kuykendall Hall 107, Honolulu, Hawaii 96822, in strict accordance with the true intent and meaning of the Invitation for Bids (IFB) and shall complete delivery within **SIXTY (60) CONSECUTIVE CALENDAR DAYS** from the date designated in the Notice to Proceed, as follows:

#### TAX LIABILITY

Both out-of-state and Hawaii bidders are advised that the amount bid on this solicitation is subject to the general excise tax imposed by Chapter 237, Hawaii Revised Statutes (HRS) and, if tangible property is being imported into the State of Hawaii for resale, the use tax (currently 1/2%) imposed by Chapter 238, HRS. (Refer to Taxes in the General Provisions.) Bidders are therefore cautioned to consider such taxes in formulating their bids since no adjustments to the prices bid shall be allowed.

#### BASIS FOR AWARD

The award of contract, if awarded, shall be made to the lowest responsive and responsible bidder on the **TOTAL AGGREGATE AMOUNT (ITEMS 1 TO 19)**.

Bidders must bid on ALL ITEMS as per the TECHNICAL SPECIFICATIONS to be considered for award. Prices shall be F.O.B. destination including shipping, transportation and delivery charges, warranty costs, expediting fees and all applicable fees and taxes.

#### NOTE TO BIDDERS

An acceptable bid must conform in all material respects to this Invitation for Bids. Any of the following may be grounds for disqualification:

1. Taking exception to any of the specifications, terms or conditions contained in the IFB.
2. Placing conditions on the furnishing of solicited goods or services.
3. Inclusion of a quotation or order form containing additional specifications, terms or conditions.
4. Referencing external documents containing additional specifications, terms or conditions.

Bidders are advised that bids are evaluated as submitted and requests by bidders to delete conditions contained in their bids after bid opening cannot be considered.

## SUBSTITUTIONS TO BE APPROVED IN ADVANCE

The manufacturer and model numbers of items identified in the TECHNICAL SPECIFICATIONS are used as a measure of quality, style, size, appearance, and performance. All equipment must be new and unused. Used or refurbished equipment will not be considered.

Any brand or manufacture of equal or better quality and performance than that specified will be considered for acceptance by the University upon submission of a Request for Substitution (**BID REQUIREMENTS**, Page 5). The Request for Substitution must include a statement of variances which lists all features of the proposed substitution differing from the specifications and/or product specified and must further certify that the substitute has no other variant features. In addition, the Request for Substitution must include manufacturer's literature or brochures containing technical data and illustrations providing sufficient evidence to enable the University to evaluate each feature listed as a variance. The University may, at its discretion, reject or deny any submittal containing insufficient information or any substitution that it deems unequal, and the findings in these regards shall be accepted by the bidder as final and binding.

All requests for substitution of items shall be emailed to the Technical Representative, Mark Nakamura, at [ofdas@hawaii.edu](mailto:ofdas@hawaii.edu), no later than **4:00 p.m. HST, February 29, 2024**. The University shall not be required to consider any Request for Substitution received after this deadline.

The University may at its discretion reject or deny any substitution that it deems unequal, and the findings in this regard shall be accepted by the bidders as final and binding. Notification of approval or rejection/denial of substitution requests shall be included in the University's posting of its response to **QUESTIONS AND REQUESTS FOR CLARIFICATION** (see Notice to Bidders).

**A bid which includes a substitution shall be considered only if the substitution has been approved by the University via the QUESTIONS AND REQUESTS FOR CLARIFICATION.**

SAMPLE FORMAT FOR REQUEST FOR SUBSTITUTION

Date: \_\_\_\_\_

Mark Nakamura  
Graphics Media Specialist  
University of Hawaii at Manoa  
Office of Faculty Development and Academic Support  
Email: [ofdas@hawaii.edu](mailto:ofdas@hawaii.edu)

Mark Nakamura:

Subject: **REQUEST FOR SUBSTITUTION**

Project Title: **IFB No. 24-7960 Furnish, Deliver, and Install Audio/Visual Equipment at Webster 101 for the University of Hawaii at Manoa**

In accordance with the "SUBSTITUTIONS TO BE APPROVED IN ADVANCE" section of the BID REQUIREMENTS, I hereby submit for substitution the attached technical brochure(s) and statement of variances for your review and approval for the item(s) shown below:

<u>ITEM</u>	<u>SPECIFIED BRAND</u>	<u>SUBSTITUTE OR ALTERNATE BRAND</u>	<u>MODEL NUMBER</u>	<u>VARIANT FEATURES</u>
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I further certify that my request for substitution of the above items(s) has no other variant features.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

**NOTES: PLEASE USE YOUR COMPANY'S LETTERHEAD  
IF NO VARIANT FEATURE, INDICATE "NONE"**

## TECHNICAL SPECIFICATIONS

This section indicates the Technical Specifications required for the audio/visual equipment. The Technical Specifications listed herein are the minimum requirements and are **mandatory** for an accepted bid.

### 1. Related Work

AV Contractor shall coordinate all electrical raceway/junction box locations for AV equipment and routing of audio, control and power cables from equipment and pull boxes to system racks.

### 2. Scope of Work

- a. The work as described herein shall be furnished and installed by one firm alone, hereafter referred to as the AV Contractor. The AV Contractor shall furnish and install all equipment and audio-video signal, control wiring, and Line-Voltage Electrical required for the AV Systems described herein.
- b. AV Contractor will act as the Prime Contractor and hold at a minimum Hawaii State C-15 License or C-13 License in order to connect the devices and ensure the existing infrastructure is not overloaded.
- c. Equipment not mentioned herein nor shown but necessary to meet the requirements of this section shall be provided without claim for additional payment.
- d. The AV Contractor shall coordinate all installed items including all necessary cable pass-throughs and structural needs/requirements.
- e. The AV Contractor shall provide all software programming required to provide fully operational systems.
- f. The AV Contractor shall coordinate the specific programming requirements of the AV Control System with a designated University representative, including touch screen layouts and page navigation. All programming written for this project shall be the property of the University and shall be provided to the University upon completion.
- g. Coordinate work with the University:
  - i) All IP device requirements
  - ii) Furniture and custom millwork
  - iii) Equipment rack locations
  - iv) Electrical Power requirements

### 3. Contractor Responsibilities

Include all necessary supervision and issuing of all coordination information to accommodate the AV systems installation for:

- a. Coordination of delivery.
- b. Unloading equipment from delivery trucks.
- c. Safe handling and storage up to the time of permanent placement in the project.
- d. Correction of any damage to the item(s) caused by the Contractor.
- e. Mounting in place and connection(s) as specified.

### 4. Contractor Qualifications

- a. The Contractor shall be experienced in the installation of professional AV systems and have completed within the past FIVE (5) years at least THREE (3) AV systems projects of a size and scope comparable to this project.
- b. The Contractor shall have a manufacturer certified programmer on staff locally for any specialized equipment requiring programming for this project.
  - i) Biamp Certified Programmer
  - ii) Wolfvision Certified Programmer
  - iii) Extron Certified Integrator and Programmer
- c. The Contractor shall provide IEEE Category Cabling Certification Report, Fluke or equivalent.

### 5. Audio Visual Specifications

- a. Item No. 1: Extron TLP Pro 525C, 5" Cable Cubby TouchLink Pro Touchpanel, Part no. 60-1560-12, or approved substitution, each with the following specifications:
  - i) 5" capacitive flip-up touchscreen with 800x480 resolution and 24-bit color depth
  - ii) Easy access to AV, data, and power connections, accommodates AC or AC+USB power module and either five AV cables, or two single space MAAP™ Mini Connectivity Modules, AC Power and AC+USB power modules are available for US, Optional Retractor cable retraction system



- iii) TLP Pro 525C Bracket Kit, Gorilla Glass® screen, quad-core processing, works with any Extron control processor and HC 400 Series system, transformable into an all-in-one Pro xi Series control system using LinkLicense for TLP Control Processor and the TLCA 1 TouchLink Control Port Expansion Adapter, Supports up to four Ethernet-controllable devices using GC Plus and eight using GC Pro, Power over Ethernet
  - iv) Built-in speaker, light sensor adjusts screen brightness as the ambient room lighting changes, patented modular design for fast assembly and serviceability, compatible with TeamWork® Show Me® Cables
  - v) System connection status indicator, high speed USB 2.0 port, automatic clock synchronization, integrated lid switch, adjustable sleep timer, UL/c-UL listed and CE compliant, integrated side, able to manage, monitor, and control this device remotely using GlobalViewer Enterprise Resource Management software, fully customizable using Extron control system
- b. Item No. 2: Extron AC+USB 300 Series Power Module, AC+USB 314 US, Cord, 2US AC, 1USBC, 1USBA, 12A Brkr, Integ PS, 2 Outlet, Part no. 60-1891-01, or approved substitution, each with the following specifications:
- i) For use with Cable Cubby® Series and select TouchLink® enclosures, AC power outlets, USB-C® and USB Type-A power outlets, total of up to 55 watts of USB
  - ii) 12 A circuit breaker for current overload protection, internal Extron Everlast™ power supply, UL-listed attached 9.5' (2.90 m) AC power cord and two 2' US AC outlet cables at the bottom of the module to power optional AV devices
  - iii) Extron Everlast Power Supply covered by a 7-year parts and labor warranty
- c. Item No. 3: Extron HDMI Ultra/9, Ultra Flexible Premium High Speed HDMI Cable, Part no. 26-663-09, or approved substitution, each with the following specifications:
- i) Certified for use with AVEdge, Cable Cubby®, and HSA surface access enclosures
  - ii) Ultra-flexible 28 AWG HDMI cable, conforms to Premium High Speed HDMI Cable performance standards and support 4K (4096x2160) and 1080p @ 60 Hz resolutions, supports ARC and CEC, gold-plated contacts
- d. Item No. 4: Extron IPCP Pro 255Q xi, IPCP Pro xi Quad Core Control Processor, LL UI Upgrade, Part no. 60-1914-01A, or approved substitution, each with the following specifications:
- i) Memory—SDRAM 2 GB, Flash 8 GB
  - ii) Software—Configuration software Global Configurator® Plus and Professional, Programming software Global Scripter®; Control apps Extron Control; Resource management software GlobalViewer® Enterprise; Utilities Toolbelt, embedded web page

- iii) Hardware user interface—TouchLink® Pro touchpanels, Network Button Panels, or eBUS® button panels
  - iv) Ethernet—Network interface controllers (NICs) 1 LAN, 1 AV LAN; Data rate 10/100/1000Base-T, half/full duplex with autodetect ; Protocols DHCP, DNS, HTTP (redirect), HTTPS, ICMP, IEEE 802.1X, NTP, SFTP, SMTP, SNMP, SSH, TCP/IP, UDP/IP
  - v) Serial—1 bidirectional RS-232, RS-422, RS-485 (port 1), 1 bidirectional RS-232 (port 2); Connector; Baud rate and protocol 300 to 115200 baud (9600 baud = default); 8 (default) or 7 data bits; 1 (default) or 2 stop bits, no parity (default), even, or odd parity
  - vi) Digital I/O—4 digital input/output (configurable); Input voltage range 0 to 24 VDC, clamped at +30 VDC, Input impedance >10k ohms; Programmable pullup 1k ohms to +5 VDC
  - vii) IR/serial—1 programmable, unidirectional RS-232 ( $\pm 5$  V), or TTL level (0 to 5 V) infrared (carrier and non-carrier) up to 300 kHz
  - viii) Relay—2 normally open relays, Connector
  - ix) Volume control—Compatible with Extron amplifiers
  - x) External Power supply
- e. Item No. 5: Extron TLP Pro, 7" Tabletop TouchLink Pro Touchpanel 725T, Part no. 60-1562-02, or approved substitution, each with the following specifications:
- i) 7" capacitive touchscreen with 1024x600 resolution and 24-bit color depth, Gorilla Glass, quad-core processing, works with Extron control processor and HC 400 Series system
  - ii) -Uses LinkLicense for TLP Control Processor and the TLCA 1 TouchLink Control Port Expansion Adapter
  - iii) Supports up to four Ethernet-controllable devices using GC Plus and eight using GC Pro, Power over Ethernet
- f. Item No. 6: Extron HDMI Ultra/15, Ultra Flexible Premium High Speed HDMI Cable, Part no. 26-663-15, or approved substitution, each with the following specifications:
- i) Certified for use with AVEdge, Cable Cubby®, and HSA surface access enclosures
  - ii) Ultra-flexible 28 AWG HDMI cable, conforms to Premium High Speed HDMI Cable performance standards

- iii) Support 4K (4096x2160) and 1080p @ 60 Hz resolutions, supports ARC and CEC, gold-plated contacts
- g. Item No. 7: Netgear 30-Port, 24xPoE+, 300W, 2x1G, 4xSFP Managed Switch, Part no. GSM4230P, or approved substitution, each with the following specifications:
- i) 30 total ports, 26x, 1G, 4xSFP
  - ii) Total budget 300W, 24 PoE+ ports
  - iii) 1U rack mount, 440x43.2x400 form factor
- h. Item No. 8: Netgear Cloud Managed WiFi 6, AX3000 Dual Band Multi-Gig WiFi 6 Access Point with Power Adapter, Part no. WAX620PA-100NAS, or approved substitution, each with the following specifications:
- i) WiFi Standards 5.0GHz: 802.11a/n/ac/ax, 2.4GHz: 802.11b/g/n/ax; wireless mode (transmit x receive) 4x4 in 5.0GHz, 4x4 in 2.4GHz; OFDM and OFDMA; Target Wake Time (TWT); Maximum Theoretical Throughput AX3600 3.6Gbps; Maximum Theoretical Throughput per Band 5.0GHz: 2400Mbps, 2.4GHz: 1200Mbps; Antenna Gain Internal 3.1/4.3 dBi (2.4GHz/5GHz); Power over Ethernet (PoE) 802.3at/af; PoE Power Consumption 25.5W
  - ii) Centralized Management— Insight App; Secure Socket Layer (SSL); Wireless Distribution System (WDS)—Repeater, Bridge Point-to-point/Multi-point, Simultaneous Bridge and Wireless Client Association
  - iii) Security—WiFi Protected Access (WPA/WPA2/WPA3), 802.11i, MAC address filtering with access control, 802.1x RADIUS support with EAP TLS, TTLS, PEAP, Neighbor AP detection, Block SSID Broadcast, LAN Support, Guest Network/Captive Portal, Bandwidth management, Link Layer Discovery Protocol, Bandsteering
  - iv) Instant WiFi Mesh—Wireless backhaul to form Mesh Network; Standards IEEE 802.11ax WiFi 6 standard, WMM Wireless Multimedia Prioritization, WDS Wireless Distribution System, Power over Ethernet (PoE) IEEE 802.3af approximately 60% of full throughput performance, Power over Ethernet (PoE) IEEE 802.3at, OFDM/OFDMA
  - v) Physical Interfaces —Interface One 100/1000/2.5GBASE-T Gigabit Ethernet (RJ-45) ports with Auto Uplink™ (Auto MDI-X) supporting IEEE 802.3af or 802.3at Power over Ethernet (PoE)
  - vi) LED—Four (4): Power and Cloud connection; LAN speed; 2.4GHz status; 5.0GHz status; Security—WiFi Protected Access® (WPA, WPA2, WPA3), WPA2 and WPA3 Enterprise, Wireless access control to identify authorized wireless network devices, MAC address authentication, Network Management—NETGEAR Insight App

- vii) Advanced Wireless—Wireless Distribution System (WDS) Bridge mode: Point-to-point wireless, Bridge mode: Point-to-multipoint wireless, Repeater mode, Adjustable Transmit Power Control (TPC), Device detection, Identify type of wireless clients in the network
- i. Item No. 9: Planar Helium PCT2495, 24" Touch Screen Monitor, Part no. 998-3328-00, or approved substitution, each with the following specifications:
- i) Viewable Size 23.8" diagonal (20.75" horizontal x 11.67" vertical)
  - ii) Touchscreen—Multi-Touch Projected Capacitive
  - iii) Number of Touch Points 10
  - iv) Touchscreen Interface USB
  - v) Contrast Ratio (typ) 1000:1
  - vi) Viewing Angle (typ) 178° H,V
  - vii) Response Time (typ) 14 ms, 5ms (G to G)
  - viii) Brightness (w/touchscreen) 360 cd/m<sup>2</sup>; Brightness (w/o touchscreen) 400 cd/m<sup>2</sup>
  - ix) Display Type IPS Edge-Lit LED LCD
  - x) Display Resolution 1920 x 1080, full HD
  - xi) Aspect Ratio 16:9
  - xii) Tilt Range +15° to +65° and flat
  - xiii) Palette 16.7 million colors
  - xiv) Pixel Pitch 0.2745 mm
  - xv) Refresh Rate 50 to 75 Hz (60 Hz recommended); Panel Depth 1.7" (43.6 mm)
  - xvi) Video Inputs HDMI®, DisplayPort (w/HDCP)
  - xvii) HDCP
  - xviii) Audio Output 2 speakers, 1W/ch, headphone out
  - xix) Compatibility Windows® 7, 8, 10, 11 - HID Compliant, Chrome OS, Android & Linux (Kernel above version 3.8)- no drivers needed for basic touchscreen operation
  - xx) External Connections HDMI 19-pin, DisplayPort 20-pin, 3.5mm headphone out, USB (A to B), USB 3.0 A type x 2, AC power-in

- xxi) Internal Power Supply (AC power)
  - xxii) Service and Support 3-Year Customer First™ Warranty featuring FREE Advance Replacement
- j. Item No. 10: Samsung, QBB-N series 55" Direct-Lit 4K Crystal UHD LED Display, Model no. QB55B-N, or approved substitution, each with the following specifications:
- i) Screen Size 55"
  - ii) Resolution 3840x2160(16:9)
  - iii) Brightness 350nits
  - iv) Contrast Ratio (Typical) 4000:1
  - v) Color Gamut 92% (DCI-P3, CIE 1976)
  - vi) Orientation Landscape / Portrait
  - vii) Inputs—HDMI 2.0 (3); USB 2.0 x 2
  - viii) Output—Stereo mini jack
  - ix) Speaker 10W, 2ch
  - x) Internal Player Processor 1.7GHz Quad-Core CPU; Operating System Tizen 6.5; Storage (FDM) 8GB
  - xi) Software—Workspace (Microsoft365/VMWare/RDP), Custom Home, Auto Source Switching & Recovery, Dicom Simulation Mode, Upgradable Web-Engine, Tizen Enterprise Platform, Video Conference Solution
  - xii) Security 802.1x (WPA2 Enterprise): EAP-TLS, EAP-TTLS, EAP-PEAP
- k. Item No. 11: Wolfvision, Vesa mount for Cynap Core Pro, Part no. 102263, or approved substitution, each with the following specifications:
- i) VESA mount for Cynap Core Pro
- l. Item No. 12: Wolfvision Cynap Core Pro, Wireless presentation and collaboration system, Part no. 102029, or approved substitution, each with the following specifications:
- i) Intel i3 7th generation-Processor with Linux Embedded operating system, 8GB memory, 120GB SSD, control through Ethernet/LAN/WLAN (Browser based HTML5 and protocol), BYOD
  - ii) BYOD-Mirroring for MacOS, iOS, Android and Windows, document and mediaplayer, Office365 web applications

- iii) Web conferencing, playback of video and audio, USB/UVC/UAC and Streaming inputs
  - iv) Visualizer-integration (control and image), support for WolfVision vSolution Matrix, vSolution Cast and vSolution App
  - v) Firmware updates through USB, Ethernet/LAN and vSolution Link PRO Interfaces: 2xEthernet/LAN, USB 2.0, USB 3.0 supporting UAC/UVC, inbuilt WLAN supporting infrastructure and access point mode
  - vi) Audio Line In/Out, Kensington® Lock, HDMI-output, HDMI-input, Output signals Widescreen (16:9): 2160p30 UHD, 1080p60 FullHD, 1080p30 FullHD, 720p60 HD
- m. Item No.13: Wolfvision Cynap Pro - Version A (HDMI), Wireless presentation and collaboration system, Part no. 102030-A1, or approved substitution, each with the following specifications:
- i) Intel Processor with Linux Embedded operating system, 8GB memory, 120GB SSD, control through Ethernet/LAN/WLAN (Browser based HTML5 and protocol), BYOD
  - ii) BYOD-Mirroring for MacOS, iOS, Android and Windows, document and mediaplayer, Office365 web applications
  - iii) Web conferencing, playback of video and audio, local recording and lecture capture recording, local streaming and webcasting, USB/UVC/UAC and Streaming inputs
  - iv) Visualizer- integration (control and image), support for WolfVision vSolution Matrix (optional featurepack), vSolution Cast and vSolution App
  - v) Firmware updates through USB, Ethernet/LAN and vSolution Link PRO, Voucher for RF-remote with gyro-sensor, Interfaces: 2xEthernet/LAN, USB 2.0, USB 3.0 supporting UAC/UVC, inbuilt WLAN, supporting infrastructure and access point mode
  - vi) Audio Line In/Out, Kensington® Lock, 3xHDMI-outputs, 2XHDMI-inputs. 19" case with detachable mounting brackets for rackmount or standalone, Output signals Widescreen (16:9): 2160p60 UHD, 2160p30 UHD, 1080p60 FullHD, 1080p30 FullHD
- n. Item No. 14: Wolfvision, vSolution Matrix Pack for Cynap, Part no. 102261, or approved substitution, each with the following specifications:
- i) Package to upgrade functionality of Cynap for configuring and controlling Active Learning Spaces (license key only)

- o. Item No. 15: Wolfvision Cynap Pro - Version A - Warranty extension for 2 calendar years, Part no. 999078, or approved substitution, each with the following specifications:
  - i) Warranty extension for 2 calendar years for a total of 5 years warranty
- p. Item No. 16: Wolfvision Cynap Core Pro, Part no. 999081, or approved substitution, each with the following specifications:
  - i) Warranty extension for 2 calendar years for a total of 5 years warranty
- q. Item No. 17: Wolfvision VZ-8.UHD Visualizer - Version A (HDMI), Part no. 102026, or approved substitution, each with the following specifications:
  - i) 1-CMOS 1/1.8" Progressive Scan camera with 3840x2160 pixels (native 4K UHD resolution), sRGB colour precision, 1600 lines, 64x zoom (16x optical + 4x digital), high frame rate of 60 fps
  - ii) Integrated touchscreen LCD control & preview monitor, high speed auto focus, 9-point touch & focus
  - iii) 8GB internal memory, USB-host for external memory, recording and streaming of content, control and firmware updates through USB and Ethernet/LAN, optional IR-remote control
  - iv) Built-in digital scaler for HDMI-inputs, 3 programmable presets
  - v) Reflection free working surface, tilt range of camera: 90° (to audience)
  - vi) Kensington® lock Output signals widescreen (16:9): 720p, 1080p, 4K UH
  - vii) Outputs—HDMI, USB 3.0, Ethernet/LAN
- r. Item No. 18: Freight
  - i) Freight, ground shipping and handling, and insurance to Hawaii and job site
- s. Item No. 19: Installation
  - i) Installation – Installation shall be scheduled after the University spring semester when classes are not in session and work to be provided by the AV Contractor as described in the Special Provisions section of this IFB. Work shall be coordinated with the Technical Representative. Tentative schedule is from May 13-17, 2024.

**All questions pertaining to the Technical Specifications must be submitted per the instructions in the QUESTIONS AND REQUESTS FOR CLARIFICATION section of the NOTICE TO BIDDERS. The submittal of a bid shall be considered as acceptance of the specifications as published.**

**Any manufacturer providing equal or better quality to the Technical Specifications will be considered for acceptance by the University upon submission of a written request for approval with manufacturer's literature or brochures containing technical data on the proposed items. The University may, at its discretion reject or deny any product offer that it deems to not be equivalent, and the findings in this regard shall be final and binding.**



## SPECIAL PROVISIONS

### 1. SCOPE

The Furnishing, Delivery, and Installation of Audio/Visual Equipment at Webster 101 for the University of Hawaii at Manoa, shall be in accordance with the terms and conditions of IFB No. 24-7960 and the General Provisions dated September 2013, included by reference. The General Provisions may be viewed at:

<https://www.hawaii.edu/procurement/vendor-info/terms-and-conditions/general-provisions-for-goods-and-services/>.

### 2. AUTHORITY

IFB No. 24-7960 is issued under the provisions of the Hawaii Revised Statutes, Chapters 103 and 103D. All prospective Bidders are charged with presumptive knowledge of all requirements of the cited legal authorities. Submission of a valid executed bid by any prospective Bidder shall constitute an affirmation of such knowledge on the part of such prospective Bidder.

### 3. TECHNICAL REPRESENTATIVE OF THE PROCUREMENT OFFICER (TRPO)

The Technical Representative of the Procurement Officer is Mark Nakamura, Graphic Media Specialist, telephone (808) 956-9567, email: [ofdas@hawaii.edu](mailto:ofdas@hawaii.edu).

### 4. BIDDER'S QUALIFICATIONS

Bidder should be engaged in a business whose primary and customary interest is to provide the specified goods and/or services. The bidder must have the requisite experience, appropriate forms of insurance, and applicable licenses and permits to successfully meet the requirements of the contract. The University reserves the right to disqualify any bidder who, in its opinion, does not have the requisite experience, expertise, insurance or applicable licenses and permits to successfully meet the requirements of the contract.

### 5. CONDITIONS AT SITE

Each bidder shall visit the site and examine the conditions of same and be aware or satisfied as to the character and amount of work to be performed as called for by the specifications. No additional allowance will be granted because of lack of knowledge of such conditions. Bidders shall arrange for an appointment by contacting Mark Nakamura at [ofdas@hawaii.edu](mailto:ofdas@hawaii.edu) to schedule an appointment.

6. SUBMITTAL OF TECHNICAL DATA

With their bids, bidders shall submit manufacturer's literature or brochures with technical data and illustrations of the equipment being offered. **Technical data must demonstrate that the furniture being offered meets the minimum requirements of the Technical Specifications.** All bids will be evaluated by the information submitted at the time of bid opening; therefore, any changes/additions to the technical data should be noted

7. DISCONTINUED MODELS

If the model specified is discontinued prior to delivery, Contractor shall provide to the University a letter from the manufacturer, on company letterhead, stating the model number being discontinued, the replacement manufacturer and model number, and verifying statement that the replacement meets or exceeds the minimum Technical Specifications. Contractor shall furnish, deliver and install the replacement model at the original bid price.

8. DELIVERY AND COORDINATION OF WORK

Prior to delivery, the Contractor shall contact the Mark Nakamura, Technical Representative, (808) 956-9567 to coordinate delivery and installation of the equipment. Items shall not be delivered or installed without prior approval.

Deliver to: University of Hawaii at Manoa  
Office of Faculty Development and Academic Support  
1733 Donaghho Road, Kuykendall Hall 107  
Honolulu, Hawaii 96822

Install at: University of Hawaii at Manoa  
2528 McCarthy Mall, Webster Hall 101  
Honolulu, Hawaii 96822

9. DAMAGED/DEFECTIVE EQUIPMENT

The University of Hawai'i reserves the right to reject damaged or defective equipment, which shall be promptly and satisfactorily replaced by the Contractor at no additional cost of the University.

10. INSTALLATION

- a. Material shall be stored in areas as designated by the University. Noise and other disrupting activities normally resulting from operations are detrimental to the conduct of normal activities in adjacent locations surrounding the project area. Accordingly, the Furnishings Contractor shall exercise every precaution to keep noise resulting from their operations to a minimum.

- b. The Furnishings Contractor shall follow the guidelines of installation technique as described in the manufacturer's specifications.
- c. The Furnishings Contractor shall be expected to adhere to the guidelines and maintain the level of craftsmanship and quality intended as an acceptable installation of its products when combined in application as a total system.
- d. The Furniture Contractor shall work with the University in developing an installation plan that may be installed incrementally or on a single date.
- e. Any items that are shipped unassembled are the sole responsibility of the Furniture Contractor to assemble.

11. USE OF POWER DRIVEN EQUIPMENT

Contractor is cautioned to take all necessary safety precautions to protect the building occupants and the public whenever power driven equipment is used.

12. POSITIONING OF FURNITURE AND EQUIPMENT

- a. Details of setting up and installing the furniture and/or equipment shall be arranged so that other activities shall progress and interference is minimized.
- b. Contractor shall do all fitting and fastening necessary to install any fixed item in its permanent position, and position portable items of furniture and/or equipment so that the final inspection can be made by the University.
- c. After the furniture and/or equipment are installed, Contractor shall clean, inspect, and make ready for use all items of furniture and equipment so that the University can perform the final inspection.

13. ADJUSTMENT AND CLEANING

- a. All moving parts of furniture and equipment shall be adjusted for smooth and proper operation.
- b. Contractor shall clean the furniture and equipment to remove all dirt, smudges, and other marks.
- c. Scratches and other defects on painted or finished surfaces shall be touched up to the satisfaction of the University.

14. CLEAN-UP REQUIREMENTS

- a. The Furnishings Contractor shall execute cleaning to keep work, the site and adjacent properties or areas free from accumulation of waste materials, rubbish and windblown debris.
- b. Furnishings Contractor shall provide and be responsible for on-site containers for the collection of waste materials, debris and rubbish. Coordinate location of containers with the University.
- c. All unusable debris and waste materials shall be hauled away by Furnishings Contractor to an appropriate off-site dump area. Follow all current applicable laws.
- d. Frequency of clean-up shall coincide with rubbish producing events or as requested by the University.
- e. Burning of trash is expressly forbidden.

15. PROTECTION OF WORK AREAS

- a. The Furnishings Contractor shall take appropriate measures to avoid scratching and otherwise damaging floor, wall and ceiling surfaces, wall corners, doors, door frames, etc.
- b. After the furniture and equipment are installed, the Furnishings Contractor shall repair, replace or pay the expense for repair of damages resulting from Furnishings Contractor's fault or negligence in protecting the existing property. All walls, floors, ceilings, etc., will be repaired in a thorough manner, including painting and finishing necessary to leave the area in perfect condition. Such repair work shall meet the satisfaction of the University.

16. WARRANTY

The office furniture furnished shall be new and as specified. The Contractor shall warrant that all furniture furnished under this contract must have original manufacturer's warranty. The Contractor shall replace and/or repair any defective equipment at no cost to the University during the period of warranty, provided such defects are not due to abuse or negligence on the part of the University.

17. INCREASE OF QUANTITY

At the time of award, the University reserves the right to increase quantity for the furniture specified in the IFB and the Contractor shall agree to honor the unit cost as provided in the mandatory bid form and coordinate delivery and installation of the additional furniture with the Technical Representative.

18. INSURANCE

Contractor shall, and shall ensure that all Contractor Agents shall, during the entire term of this Contract, at no cost to UH, procure and maintain, or cause to be procured and maintained, the following insurance described below, issued by an insurance company or companies authorized to do business in the State of Hawai'i with at least an A – VII Financial Rating according to the current edition of Best's Key Rating Guide:

a. Required Insurance Coverage.

Commercial General Liability Insurance. Commercial general liability insurance written on occurrence basis covering claims with respect to injuries or damages to persons or property sustained as a result of the activities of the Contractor and/or the Contractor Agents, within, on, or about the Premises and/or the UH Campus, with limits not less than the following:

Bodily Injury and Property Damage Combined Single Limit  
 \$1,000,000.00 Each occurrence  
 \$2,000,000.00 General Aggregate per policy year  
 \$2,000,000.00 Products and Completed Operations Aggregate per policy year

Such limits may be achieved through the use of umbrella/excess liability insurance sufficient to meet the requirements of this paragraph 18 (Insurance) covering the Contractor's conduct within the Premises and/or the UH Campus and all of the activities and operations of the Contractor.

b. Automobile Insurance. If required by UH Automobile Liability Insurance to include coverage for any owned, non-owned, leased, or hired automobiles with limits of not less than the following:

Bodily Injury – Per Person	\$1,000,000.00
Bodily Injury – Per Accident	\$1,000,000.00
Property Damage – Each Accident	\$1,000,000.00
Basic No-Fault Insurance	As required by Hawai'i law

In the event there is a change in Hawai'i law regarding financial responsibility and insurance requirements of automobile owners or users which make this requirement obsolete, UH shall have the right to impose a new requirement consistent with the then Applicable Laws.

c. Workers' Compensation Insurance. Workers' Compensation insurance with respect to work by employees of the Contractor and the Contractor Agents on or about the Premises and/or the UH Campus, with coverage, amounts, and limits as required by law.

- f. Common provisions. Each insurance policy that Contractor and/or any of the Contractor Agents are obligated to obtain under this Agreement shall be subject to the following:
1. Notice of changes. Contractor will be required to notify UH of any cancellation, limitation in scope, material change, or non-renewal of any insurance coverage right away (but no later than five (5) business days of receiving notice from the insurer).
  2. UH insurance not primary. Insurance obtained by Contractor and/or any Contractor Agents pursuant to this Agreement will be primary and any UH insurance will apply only in excess of and not contribute with such insurance obtained by Contractor and/or any Contractor Agents.
  3. Name UH as an additional insured. UH shall be named as an additional insured on all insurance coverage that Contractor and/or any Contractor Agent is required to obtain under this Agreement except for workers compensation and employers liability insurance.
  4. Waiver of subrogation. All insurance obtained by Contractor will contain a waiver of subrogation endorsement in favor of UH.
  5. UH not required to pay premiums. Contractor and Contractor Agents will be responsible for paying all costs associated with obtaining the required insurance coverage described in this Agreement, including all premiums. UH will not be responsible for paying any such costs.
  6. Acceptable deductibles. The terms and amounts of any deductibles for the required insurance coverage under this Agreement must be reasonable and acceptable to UH based upon the type of insurance involved and the conduct of the Concession.
- g. Deposit insurance certificates. Contractor will timely deposit and keep on deposit with UH, certificates of insurance necessary to satisfy UH that the insurance requirements of this Agreement have been and continue to be satisfied during the term of the Agreement.
- h. UH may cure failure to obtain/maintain insurance. If Contractor fails to provide and maintain the insurance required by this Agreement after written notice to comply from UH, UH may, but shall not be required to, procure such insurance at the sole cost and expense of Contractor, who shall be obligated to immediately reimburse UH for the cost thereof plus ten percent (10%) to cover UH's administrative overhead.

- i. Lapse in insurance constitutes a breach. Any lapse in, or failure by Contractor or any Contractor Agents to procure and maintain the insurance coverage required under this Agreement, at any time during and throughout the term of this Agreement, shall be a breach of this Agreement and UH may terminate the rights of Contractor and all Contractor Agents to conduct the Concession.
- j. Insurance shall not limit Contractor liability. Obtaining the required insurance coverage will not be construed to limit Contractor's liability hereunder or to fulfill Contractor's indemnification, defense, and hold harmless obligations under this Agreement. Notwithstanding the required insurance coverage, Contractor shall be obligated for the full and total amount of any damage, injury, or loss arising from acts or omissions of Contractor and/or the Contractor Agents.
- k. UH may adjust insurance requirements. UH may, upon reasonable notice and reasonable grounds, increase or change the form, type, coverage, or coverage limits of the insurance required hereunder, in which event Contractor shall, and shall cause the Contractor Agents to, obtain insurance, as modified. UH's requirements shall be reasonable and shall be designed to provide protection against the kind and extent of risks that exist at the time a change in insurance is required. Contractor shall satisfy all UH risk management requirements that are in effect as of the Effective Date and as may be amended from time to time.

19. PAYMENT

Contractor shall be remunerated upon submission of a properly executed original invoice and ONE (1) copy, indicating the contract number, to:

University of Hawaii at Manoa  
Office of the Vice Provost for Academic Excellence  
2500 Campus Road  
Hawaii Hall, Room 209  
Honolulu, Hawaii 96822

EXHIBIT A



Home | OFDAS Spaces and Innovative Rooms | Webster 101

# Webster 101 Collaborative Classroom





# Webster 101 Collaborative Classroom



## Room Specs

- Capacity: 64 students
- 8 tables, each with a monitor and a panel for students to connect their own technology, and seating for 8 students.
- Writing surfaces located along all wall surfaces for students' use
- There is a technology podium from which instructors and students can make presentations.
- Webcam (Polycom USB: camera/mic/speaker)