

## Invitation to Bid

### 20160209 INTERACTIVE TECHNOLOGY

Responses to an Invitation to Bid will be received by the Purchasing Supervisor, Sumner County Board of Education, 1500 Airport Road, Gallatin, TN 37066 for 20160209 INTERACTIVE TECHNOLOGY until 10:00 a.m. CDT February 9, 2016. Bid responses will be opened at that time, taken under advisement and evaluated. Should you have any questions please contact Chris Brown at [chris.brown@sumnerschools.org](mailto:chris.brown@sumnerschools.org). All proposals are subject to the Board of Education's conditions and specifications which are available from Vicky Currey, Purchasing Supervisor (615) 451-6560. All bids can be viewed on line at [www.sumnerschools.org](http://www.sumnerschools.org).

## NOTICE TO RESPONDENTS

Responses to an Invitation to Bid will be received by the Purchasing Supervisor in the SUPPORT SERVICE FACILITY CONFERENCE ROOM, Sumner County Board of Education, 1500 Airport Road Gallatin, TN 37066. They will be received until **10:00 A.M. Local Time FEBRUARY 9, 2016** for **20160209 INTERACTIVE TECHNOLOGY**, at which time the responses will be opened, taken under advisement and evaluated. ***BIDS WILL BE POSTED ON [www.sumnerschools.org](http://www.sumnerschools.org)***

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## GENERAL REQUIREMENTS AND CONDITIONS

1. The Sumner County Board of Education reserves the right to accept or reject any and/or all responses in whole or in part, and to waive informalities therein.
2. Any responses received after the scheduled closing time for the receipt for responses will not be considered.
3. If a mistake is discovered after the responses are received, only the Sumner County Board of Education may allow the respondent to withdraw the entire response.
4. Partial payments will not be approved unless justification for such payment can be shown. Terms will be net 30 days.
5. Payment will not be made until the said **20160209 INTERACTIVE TECHNOLOGY** are inspected and approved as meeting all specifications by persons appointed by the Sumner County Board of Education.
6. Responses submitted must be in a sealed envelope and marked on the outside as follows:  
**RESPONSE: 20160209 INTERACTIVE TECHNOLOGY**  
**DEADLINE: FEBRUARY 9, 2016 @ 10:00 A.M.**
7. Facsimile responses will not be considered.
8. If a successful bidder violates any terms of their bid, the contract, school board policy or any law they may be disqualified from bidding for a period of two years for minor violations or longer

for major violations. Bids from disqualified bidders will not be accepted during the period of disqualification.

9. Prices quoted on the response (if any) are to be considered firm and binding until the said **20160209 INTERACTIVE TECHNOLOGY** are in the possession of the Sumner County Board of Education.
10. No purchase or contract is authorized or valid until the issuance of a Board Purchase Order in accordance with Board Policy. No Board Employee is authorized to purchase equipment, supplies or services prior to the issuance of such a Purchase Order.
11. Any deviation from these stated terms, specifications and conditions must be coordinated with and approved in writing by the Purchasing Supervisor, Vicky Currey (615) 451-6560.
12. All bids that exceed \$25,000 must have the Company Name, License Number, Expiration Date thereof and License Classification of Contractor listed on outside of sealed envelope. As required by State of Tennessee Code Annotated 62-6-119.
13. The awarded bidder will be required to post a performance and payment bond in the amount of 25% of the contract price if it exceeds \$100,000 as stated by State of Tennessee Code Annotated 12-4-201.
14. If the project cost in excess of \$25,000 a performance bond must be secured by the requesting party in an amount equal to the market improvement value.

The Sumner County Board of Education is soliciting bid proposals for Interactive Technology. Purchases shall be dependent upon funds availability. Qualified vendors are requested to furnish Interactive Technology, warranty information and on-going technical support.

## EVALUATION

Evaluation will be made on the following Criteria: In keeping with the guidelines of, this contract will be awarded to the most cost effective providers who submits a complete and accurate submittal that meets the stated requirements. Prices of eligible services will be the primary factor, but not necessarily the sole factor, in evaluating the bids. Other factors of consideration may include, but are not limited to transition; prior experience, including past performance; personnel qualifications, including technical excellence; management capability, including schedule compliance; cost of ineligible products and services; and flexibility of services. The Sumner County Department of Education does not guarantee award of a contract and reserves the right to reject all bids.

1	Length of Years in Business	15 Points
2	Vendor Service/ Support Location	15 Points
3	Warranty / Service Experience	15 Points
4	Vendor Help Desk Offering during business hours	10 Points
5	Compliance with Bid Specifications	20 Points
6	Price Determination	25 Points

## BID RESPONSE

Vendors shall bid in the following manner

- Complete the attached pricing sheet.
  - Pricing for these products must be provided in the bid response provided with this RFP. The vendor's bid may include additional pages in the vendor's preferred format. However, all pricing must be entered on the attached pricing sheet, as a minimum, to enable the district to compare pricing from all vendors using the pricing sheet. Failure to provide the information requested in this RFP, in the requested format is reason for rejection, without consideration.

- State the percentage off the catalog discount of other related items to the recommended manufacturer.
- State the warranty for each item, listing the toll free Help Desk Line
  - State whether your firm will maintain the Help Desk or if the toll free number offered is that of the manufacturer for that item.
  - All products shall be, as a minimum, warranted for one year on parts and labor.
  - Vendors shall serve as liaison and/or service provided during the term of the warranty.

## **ADDITIONAL CONDITIONS AND CRITERIA**

- The School System reserves the right to award all items to a single vendor or to multiple vendors on an item-by-item basis.
- The School System does not guarantee any quantities during the term of this agreement. Consequently, the utilization of the contract may vary significantly from fiscal year to fiscal year. The successful vendor(s) is not guaranteed a specific amount of sales during the contract period.
- The vendor(s) agree to include all cost for shipping to the School System central warehouse in the bid price. The warehouse is located at 1500 Airport Road, Gallatin, TN 37066.

## **SPECIFIC INFORMATION**

The products specified in this RFP shall be the most commonly purchased. The specifications are not intended to eliminate any reputable manufacturer, brand or bidder. Reference to manufacturers, brand names, suppliers' itemization numbers, etc. is intended to set quality and feature standards and not exclude bids from others as long as quality and feature standards are met.

The vendor agrees, by submitting a bid response, to include overview training for each item. The training shall be conducted by properly trained and certified individuals. The training shall be per classroom for each installed item. The vendor is to include documentation of additional training per hour, per half day, per one day of training and the detail of the training proposed.

The bid shall be valid beginning on the bid opening date thru December 31, 2016. The School System reserves the right to renew this bid for up to two (2), one-year extensions. The vendor agrees to cap any price increase to a maximum of ten percent (10%) per extension. All extensions are subject to approval by the Sumner County Board of Education.

## **TELEPRESENCE ROBOT (Item #1)**

**Height:** 47" - 59" (remotely adjustable)

**Footprint:** 10" x 9"

**Weight:** 15 lbs.

**Speed:** Slow to Moderate walking speed

**Surface:** Most indoor surfaces, E.g. carpet, concrete, hardwood, tiles.

**Wheelchair ramp:** Yes. will go up about a 5% incline (ADA compliant wheelchair ramp)

**Outdoor use:** No. Double is only meant for indoor use.

**Battery: 8-10 hours per charge (depends on use).** Charge time is about 2 hours. Lithium-Ion, just like laptops.

**Microphone & Speakers:** Currently supports iPad version 2, 3 and 4.

**Camera, LCD display:** Depends on iPad used. Currently supports iPad version 2, 3 and 4.

**Front-facing camera:** iPad's front camera

**Downward facing camera:** iPad's back camera

**Driving distance:** Unlimited. You can drive anywhere indoors as long as you have wireless internet.

**User interface:** "Drive from an iPhone, iPad, or any computer (desktop or laptop) from our web interface (browser). Web interface will work on Mac OS X or Windows.

**Autonomous behavior (Double driving around automatically on its own):** None. The "driver" remote person will have to drive it where he/she wants to be.

**Network requirements:** Wifi or 4G/LTE (cellular). Double itself has no wifi or 4G/LTE. Internet connectivity is obtained directly from your wifi router / access point / repeater directly to the iPad used as the robot's "head".

**Video protocol:** Standards-based WebRTC (Video component in HTML5).

**Video encryption:** Yes, with 128-bit AES. Video is encrypted end-to-end, not stored or recorded.

**No monthly or annual software fees**

### **3 DIMENSIONAL INTERACTIVE FLAT PANEL DISPLAY (Item #2)**

**Operating System:** Windows 10

**HP Illuminator:** Powered by DLP Projector, High-Resolution Camera with up to 14.6 megapixel resolution and the Intel RealSense 3D Camera for instant capture of 2D and 3D objects, along with an LED desk lamp.

**HP Touch Mat:** 20" diagonal, 20-point touch-enabled touch mat with an ultra-resistant top coating

**Stylus:** Adonit Jot Pro stylus to write and draw comfortably. It can be attached magnetically to the upper-right side of the Sprout display

**Processor:** 4<sup>th</sup> generation Intel Core i7-4790S Processor

**Graphics:** NVIDIA GeForce GT 745A with 2GB DDR3 dedicated memory

**Integrated Display:** 23" diagonally, 10-point touch-enabled, Full HD (1920x1080) Wide Viewing Angle, White-LED backlit LCD Display

**Memory:** 8 GB DDR3-1600 (expandable to 16 GB)

**Hybrid Drive:** 1 TB SATA Solid State Hybrid Drive with 8 GB flash acceleration cache offers SSD-like Speed and HDD capacity

**Webcam:** HP High Definition 1 MP Webcam

**Sound:** DTS Sound

**Wireless:** 10/100/1000 Base-T Network and Integrated Bluetooth 4.0 and Wireless LAN 802.11a/b/g/n featuring Dual-band (2.4 GHz and 5GHz) 2x2 MIMO technology

**USB Ports:** Dual USB 2.0 ports and dual USB 3.0 ports, including a powered port to charge phones or other USB devices

**Memory Card Reader:** HP 3-in-1 Media Card Reader – Supports SD, SDHC, SDXC

**Keyboard and Mouse:** Premium wireless chiclet-style keyboard with volume control, Windows 8 hot keys and optical mouse

**Size and Weight:** Height: 23.4 inches (59.3 cm)  
Width: 22.7 inches (57.6 cm)  
Depth: 23.8 inches (60.4 cm)  
Weight: 33.7 lb approx.. (15.29 kg approx.)

### **INTERACTIVE WHITEBOARDS (Item #3)**

Recommended minimum interactive whiteboard specifications

- Must support both pen and finger touch interaction
- Must support interaction using objects other than the included pens or a finger
- Must support multitouch-enabled gestures on multitouch Windows® and Mac operating systems
- Must support at least two simultaneous touches
- Must enable at least two users to write simultaneously
- Must enable at least two users to interact simultaneously without having to switch to a

multiuser mode or work in confined areas of the interactive surface

- Must enable users to interact with, move and manipulate digital ink as if it were an object, when used with compatible software
- Must offer optical finger touch interactive technology featuring at least four cameras display
- At a minimum, must be available in 77-inch and wide-format 87-inch (diagonal) screen sizes
- Must support dry-erase markers and magnets
- Must weigh no more than 52 lb. (23.1 kg) Accessories
- Must come with at least two pens
- Interactive whiteboard provider must offer pen ledge and pen tray options
- Pen tray must feature color select buttons, access to the on-screen keyboard, right-click and orient features and optional projector controls Operating system support
- Must support Windows and Mac operating systems Integration
- Must integrate with other products from the interactive whiteboard provider, including interactive whiteboard software, interactive response systems and document cameras

Warranty

- The interactive whiteboard must be covered under a warranty program that includes at least a two-year limited equipment warranty and an optional warranty extension of



up to five years (total) Software\*

- Must include integrated interactive whiteboard software at no additional cost
- Interactive whiteboard provider must offer a software development kit (SDK) that enables educators and third-party developers to create custom web based widgets
- Interactive whiteboard provider must offer additional plug-ins or add-ons, including 3D and

math tools, that integrate with the interactive whiteboard software

- Software must provide access to classroom-ready resources on an online community website directly from the software interface
- Software must provide access to at least 80 lesson activities on an online community that are designed specifically for multiple users Support and community
- Phone and online support must be available at no charge, with no time limit
- Must include conferencing support that allows users to conference with the interactive

whiteboard provider's technical support

- Must offer an app for mobile devices specifically dedicated to providing and accessing support
- Support site must include a searchable knowledge base with at least 1,500 documents and no access restrictions
- Additional content and lesson plans must be available online. Free web-based resources must be available on demand and searchable by subject and subcategory. Users must be able to preview resources before downloading.
- The interactive whiteboard provider must facilitate an open online community where users can share best practices, download lesson plans and exchange ideas
- The interactive whiteboard provider's online community must offer more than 60,000 resources, including standards-correlated lessons and applications from leading educational

publishers and content providers

Regulatory compliance

- Must include CSA (U.S./Canada), FCC, IC and CE certification
- Interactive whiteboard provider must perform OECD Conflict Minerals due diligence

## Environmental compliance

- Must include EU REACH, RoHS, WEEE, Packaging and Battery
- Must include China EIP
- Must include US Packaging and California Proposition 65
- Must have an option to Host live demos, presentations, training events, webinars and ad hoc collaborative sessions.
- Present slides and demonstrate products to remote participants.
- Review documents together.
- Show and work on meeting notes simultaneously with remote participants.
- Help colleagues and customers navigate intranet and Internet sites.
- Remotely control meeting participants' computers, with their permission.
- View meeting participants who are using webcams.
- Speak with and listen to meeting participants using Voice over Internet Protocol
  - (VoIP) technology.
  - Must be flawlessly interactive with Smart Notebook applications

## **MULTIPLE PANEL VIDEO WALL (Item #4)**

### **(4) Flat Panel Monitors with the following equipment and software specifications**

- Screen Size 55" Class
- Screen Size (Diag.)54.64"
- Backlight Type Full-Array LED
- Local Dimming Yes, Active LED Zones™ x12
- Resolution1920 x 1080 (1080p)
- Effective Refresh Rate120Hz
- Clear Action240
- Aspect Ratio16:9
- Dynamic Contrast Ratio5M: 1
- Viewable Angle (H/V)178°/178°
- Number of Colors16.7 Million
- OSD Language English, Spanish, French
- Speakers/Power Output10W x 2
  
- DTS StudioSound™ Yes
- DTS TruVolume™ Yes
- VIA (VIZIO Internet Apps)Yes, VIZIO Internet Apps Plus™
  
- Built-in Wi-Fi YesSecond Screen Interactivity Yes
  
- HDMI Ports3 (2 bottom / 1 side)
- Component1 (bottom)
- Composite1 (bottom)
- Tuner1 (bottom)
- Ethernet1 (bottom)
- USB Ports1 (side)
  
- Analog Audio Out1 (side)
- Digital Audio Out (SPDIF)1 (side)
  
- Remote ControlXRT122

- USB Music Yes
  - USB Photo Yes
  - USB Video Yes
  
  - Energy Compliance ENERGY STAR® 6.1
  - Power Consumption 52.8 W
  - Standby Power Consumption <0.5W
  - Ambient Light Sensor Yes
  - Mini desktop
  - 1 x Core i5 4210U / 1.7 GHz
  - RAM 4 GB
  - HDD 500 GB
  - HD Graphics 4400
  - WLAN : 802.11b/g/n
  - Windows 7 Professional 64-bit Edition / Windows 10 Pro downgrade
  - pre-installed: Windows 7
  - Streaming Video to all panels
  - Display nodes to all panels
  - Controller node
  - Second control node option
- System must be able to display individual views or application on each panel.

System must be expandable

**PROJECTOR ITEM 1: CLASSROOM BASED INTERACTIVE 3 LCD PROJECTOR  
(Item #5)**

**Projection System:** 3LCD, 3-chip technology

**Projection Method:** Front/rear/wall mount/table

**Driving Method:** Poly-silicon TFT Active Matrix

**Pixel Number:** 1,024,000 dots (1280 x 800) x 3

**Color Brightness (Color Light Output):** 3300 lumens<sup>1</sup>

**White Brightness (White Light Output):** 3300 lumens<sup>1</sup>

**Interactive Color Brightness (Color Light Output):** 3300 lumens<sup>1</sup>

**Interactive White Brightness (White Light Output):** 3300 lumens<sup>1</sup>

**Aspect Ratio:** 16:10

**Native Resolution:** 1280 x 800 (WXGA)

**Lamp Type:** E-TORL™ 245 W UHE

**Lamp Life:**

- ECO mode: Up to 6,000 hours<sup>2</sup>
- Normal mode: Up to 4,000 hours<sup>2</sup>

**Throw Ratio Range:**

- (4:3) 0.33 – 0.44
- (16:10) 0.27 – 0.37
- (16:9) 0.27 – 0.37

**Size (projected distance):**

- (4:3) 53" – 88"
- (16:10) 60" – 100"
- (16:9) 59" – 97"

**Keystone Correction:**

Manual:

- Vertical: ±3 degrees
- Horizontal: ±3 degrees

**USB Plug 'n Play:**

- Mac OS® 10.5 / 10.6 / 10.7 / 10.8 / 10.9
- Windows 2000 XP / Windows Vista® / Windows 7 / Windows 8

**Contrast Ratio:** Up to 10,000:1

**Color Reproduction:** Up to 1.07 billion colors

**Color Processing:** 10 bit



**PROJECTOR ITEM 2: CLASSROOM BASED CEILING MOUNT PROJECTOR (Item #6)**

**Projection System:** 3LCD, 3-chip technology

**Projection Method:** Front / rear / ceiling mount

**Driving Method:** Poly-silicon TFT Active Matrix

**Pixel Number:** 786,432 dots (1024 x 768) x 3

**Color Brightness (Color Light Output):** 3000 lumens<sup>1</sup>

**White Brightness (White Light Output):** 3000 lumens<sup>1</sup>

**Aspect Ratio:** 4:3

**Native Resolution:** 1024 x 768 (XGA)

**Resize:** 640 x 480 (VGA), 800 x 600 (SVGA), 1280 x 800 (WXGA), 1280 x 960 (SXGA2), 1280 x 1024 (SXGA3), 1366 x 768 (WXGA60-3), 1400 x 1050 (SXGA+), 1440 x 900 (WXGA+), 1680 x 900 (WXGA++), 1600 x 1200 (UXGA60)

**Lamp Type:** 200 W UHE

**Lamp Life:**

- ECO mode: Up to 10,000 hours<sup>2</sup>
- Normal mode: Up to 5,000 hours<sup>2</sup>

**Throw Ratio Range:** 1.48 (Zoom:Wide), 1.77 (Zoom:Tele)

**Size (projected distance):** 30" to 300" (0.89 to 9.12 m) (Zoom:Wide)

**Keystone Correction:**

- Vertical: ±30 degrees (Automatic)
- Horizontal: ±30 degrees (Slider)

**USB Plug 'n Play:** Projector is compatible with PC and Mac® computers

**Contrast Ratio:** Up to 10000:1

**Color Reproduction:** Up to 1 billion colors

**Color Processing:** 10 bit  
Projection Lens

**Type:** Manual focus

**F-number:** 1.58 – 1.72

**Focal Length:** 16.9 mm – 20.28 mm

**Zoom Ratio:** 1.0 – 1.2

**Display Performance:**

- NTSC: 480 lines
- PAL: 576 lines

(Depends on observation of the multi-burst pattern)

**Input Signal:** NTSC / NTSC4.43 / PAL / M-PAL / N-PAL / PAL60 / SECAM

**Interfaces:**

- USB-A x 1
- USB-B x 1
- LAN x 1
- HDMI x 1
- HDMI/MHL® x 1
- Computer/Component x 2
- Video x 1
- S-video x 1
- RS-232c x 1
- Mic: Stereo Mini-jack 1
- Monitor Out x 1
- Audio 1 & 2
- Audio L & R
- Audio Out x 1
- Wireless LAN port: 802.11 b/g/n (optional – module sold separately)

**Speaker:** 16 W (mono)

**Operating Temperature:** 41° to 95° F (5° to 35° C)

**Power Supply Voltage:** 100 – 240VAC ±10%, 50 / 60Hz AC

**Power Consumption:**

- ECO mode: 221 W
- Normal mode: 299 W
- Communication on: 2.3 W Standby
- Communication off: 0.21 W Standby

**Fan Noise:**

- ECO mode: 29 dB
- Normal mode: 37 dB

**Security:**

- Kensington®-style lock provision
- Padlock
- Security anchor bar

**Eco Features:**

- RoHS compliant
- Recyclable product<sup>3</sup>



- Epson America, Inc. is a SmartWay<sup>SM</sup> Transport Partner<sup>4</sup>

Dimensions

**Including feet:** 11.6" x 9.7" x 3.5" (W x D x H)

**Excluding feet:** 11.6" x 9.6" x 3.4" (W x D x H)

**Weight:** 6 lb (2.7 kg)

Remote Control

### **PROJECTOR ITEM 3: CLASSROOM BASED 3D PROJECTOR (Item #7)**

**Projection System:** 3LCD, 3-chip technology,  
RGB liquid crystal shutter projection system

**Projection Method:** Front / rear / ceiling mount

**Driving Method:** Poly-silicon TFT Active Matrix

**Pixel Number:** 1,024,000 dots (1280 x 800) x 3

**Color Brightness (Color Light Output):** 3000 lumens x 2 projectors<sup>1</sup>

**White Brightness (White Light Output):** 3000 lumens x 2 projectors<sup>1</sup>

**Aspect Ratio:** Native 16:10 widescreen

**Native Resolution:** 1280 x 800 (WXGA)

**Resize:** 640 x 480 (VGA), 800 x 600 (SVGA), 1024 x 768 (XGA), 1152 x 864 (SXGA), 1280 x 960 (SXGA2), 1280 x 1024 (SXGA3), 1360 x 768 (WXGA 60-2), 1440 x 900 (WXGA+), 1400 x 1050 (SXGA+), 1600 x 900 (WXGA++), 1600 x 1200 (UXGA), 1680 x 1050 (WSXGA+ 60)

**Lamp Type:** 200 W UHE (E-TORL)

**Lamp Life:**

- ECO mode: Up to 5000 hours<sup>2</sup>
- Normal mode: Up to 4000 hours<sup>2</sup>

**Throw Ratio Range:** 1.42 – 1.56

**Size (projected distance):**

For stacked configuration

- White screen: 80" – 150" (8.2' – 15.4')
- Silver screen: 80" – 120" (8.2' – 12.5')

**Keystone Correction:**

Automatic

- White screen: Vertical/Horizontal: ±15 degrees
- Silver screen: Vertical/Horizontal: ±10 degrees

**Mac Connectivity:** Projector is Mac compatible via USB, DVI to HDMI or VGA adapter (not included)

**Contrast Ratio:** Up to 5000:1 (Stack 3D)

**Color Reproduction:** Up to 1 billion colors

**Passive 3D Stack Function:** Yes

**3D Format:** Auto / Side-by-Side / Top & Bottom / 2D / Frame Packing  
Projection Lens

**Type:** Manual Focus / Manual Optical Zoom

**F-number:** 1.58 – 1.72

**Focal Length:** 16.9 mm – 20.3 mm

**Zoom Ratio:** 1.0 – 1.2 Optical

**Lens Cover:** Slide lens shutter (A/V mute slide)

**Display Performance:**

- NTSC: 480 lines
  - PAL: 576 lines
- (Depends on observation of the multi burst pattern)

**Input Signal:** NTSC / NTSC4.43 / PAL / M-PAL / N-PAL / PAL60 / SECAM

**Interfaces:**

- Computer: D-sub 15 pin x 2
- Component video: D-sub 15 pin x 1 (shared with computer 1)
- S-video: Mini DIN x 1
- Composite video: RCA (Yellow) x 1
- Audio in: RCA x 1 (L and R)
- USB connector: Type B x 1 (USB display, audio and mouse control, stack 3D control)<sup>3</sup>
- USB connector: Type A x 1 (USB memory/document camera, stack 3D control)
- HDMI x 1
- Serial: RS-232c x 1
- Monitor out: D-sub 15 pin x 1 (shared with computer 2)
- Audio out: Mini stereo x 1

**Speaker:** Two x 2 W monaural

**Standby Audio:** Through Audio Out only

**Operating Temperature:** 41° to 95° F (5° C to 35° C)

**Power Supply Voltage:** 100 – 240V ±10%, 50 / 60Hz

**Power Consumption:**

- ECO mode: 237 W
- Normal mode: 289 W
- Communication on: 3.2 W standby
- Communication off: 0.36 W standby

**Fan Noise:**

- ECO mode: 32 dB
- Normal mode: 39 dB

**Security:**

- Kensington® security lock port
- Padlock
- Security cable hole
- Password protect function

**Dimensions**

**Including feet:** Single: 12.8" x 9.6" x 3.1" (W x D x H)

**Dual Stacked:** 14.6" x 13.8" x 8.8" (W x D x H)

**Dual Stacked Weight:** 17.4 lb (includes mount and polarizing filters)

**PROJECTOR ITEM 4: CLASSROOM BASED MOBILE HD PROJECTOR (Item #8)**

Brightness 2000 lumens

Contrast Ratio 2100:1

Image Size 27.2 in - 361 in

Projection Distance 3.3 ft - 39 ft

Uniformity 85 %

Resolution WXGA - WXGA (1280 x 800)

Native Aspect Ratio Widescreen

Color Support 1.07 billion colors

Lamp Type 165 Watt

Lamp Life Cycle 3000 hour(s) / 5000 hour(s) (economic mode)

Features High-bandwidth Digital Content Protection System (HDCP), Brilliant Color

Lens Aperture F/2.5-2.67

Vertical Keystone Correction -35 / +40

Video Input TV System NTSC, PAL-B/G, PAL-N, PAL-M, PAL-I, NTSC 4.43, PAL-D, SECAM L, PAL-H, SECAM K1, SECAM D/K, SECAM B/G, M-NTSC Analog Video Signal RGB, S-Video, composite video

Digital Video Standard High-Definition Multimedia Interface (HDMI)

Video Interfaces VGA, HDMI, composite video, S-Video

Video Modes 480p, 720p, 1080i, 1080p, 480i, 576i, 576p

Video Output

Analog Video Signal RGB

Speakers Type Integrated

Sound Output Mode Mono

Output Power / Channel 1 Watt

Input Device Type External

## Expansion / Connectivity

Interfaces 1 x composite video input - RCA 1 x S-video input - 4 pin mini-DIN 1 x audio line-out - mini-phone stereo 3.5 mm 1 x audio line-in - mini-phone stereo 3.5 mm 1 x component video / RGB input - 15 pin HD D-Sub (HD-15) 1 x HDMI - 19 pin HDMI Type A 1 x USB - 4 pin USB Type B ( management )

Miscellaneous Included Accessories Spare projector lamp, wireless remote control

Cables Included 1 x VGA cable

Security Features Security lock slot (cable lock sold separately)

Power Device Internal

Nominal Voltage AC 120/230 V (50/60 Hz)

Power Consumption Operational (Standby) 1 Watt

## **Dimensions & Weight**

Width 8.1 in

Depth 6.1 in

Height 3 in

Weight 2.6 lbs

## **DOCUMENT CAMERA (Item #9)**

### **Imaging Element:**

- Pick-up device: 1/2.7" CMOS sensor
- Effective pixels: 1920 x 1080, 2 megapixels
- White Balance: Auto
- Exposure: Auto
- Brightness: Auto

### **Output Signals / Resolution:**

- VGA: SXGA (1280 x 1024), XGA (1024 x 768), WXGA (1280 x 800), HD (1366 x 768), 1080p
- USB: QVGA, VGA, SVGA, XGA, SXGA
- HDMI: 480p / 720p / 1080p
- Composite Video: NTSC/PAL

**Frame Rate:** 30 frames per second (fps) maximum

### **Lighting Source:**

- Upper: White LED x 2
- Brightness: 250 lx or above

Optics

**Lens:** F – number: 3.4 – 5

### **Capture Area:**

- 11.7" x 16.5" (XGA)
- 11.7" x 20.7" (1080p)

### **Zoom:**

- 12x optical zoom
- 10x digital zoom

**Focus:** Auto

Functions

**Image Rotation:** ±90 degrees

**Internal Memory:** 1 GB internal, SD card slot, USB flash drive port

Interface

**Input Terminal:** VGA, mic input<sup>1</sup>, USB-A (for PC-free annotation, USB flash drive)

**Output Terminal:** VGA, USB-B, HDMI, Composite video

## Dimensions

**Open / Unfolded:** 10.6" x 12.3" x 18.8" (W x D x H)

**Closed / Folded:** 14.4" x 4.8" x 4.7" (W x D x H)

**Weight:** 6.6 lb

## Other

### **Security:**

- Kensington® lock support
- Metal security bar
- Security mounting holes

**Operating Temperature:** 41° to 95° F (5° to 35° C)

**Power Supply Voltage:** 100 – 240 V AC / DC

### **Power Consumption:**

- Operating: 17 W
- Standby mode: 0.48 W



## **TELEPRESENCE VIDEO CONFERENCING (Item #10)**

### **Audio Input**

Form Factor:

Type: External

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Microphone

### **Environmental Parameters**

Humidity Range

Operating:

Max Operating Temperature: 15 - 80%

Min Operating Temperature: 104 °F

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32 °F

### **Input Device**

Connectivity

Technology:

Type: Wireless

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Remote control

### **Interface Provided**

Connector Type:

Interface: 15 pin D-Sub (DB-15)

Qty: VGA input

Type: 1

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Video

Connector Type:	
Interface:	19 pin HDMI Type A
	HDMI input
Type:	
	Camera
Interface:	
Qty:	HDMI output
	2
Connector Type:	
Type:	4 pin USB Type A
	USB
Connector Type:	
Interface:	Mini-phone stereo 3.5 mm
Type:	Line-in
	Audio
Connector Type:	
Interface:	8 pin DIN
Type:	RS-232
	Serial
Interface:	
	Line-out
Connector Type:	
Interface:	RJ-45
Type:	Ethernet 10Base-T/100Base-TX/1000Base-T
	Network

## Modem

Connectivity  
Technology:

Data Compression  
Protocol: Wired

Digital Signaling  
Protocol: G.711 , G.722 , G.722.1 , G.728 , G.729.A

Features: H.225 , H.239 , H.281 , H.323 , H.460 , SIP

Max Transfer Rate: Auto gain control , Echo cancellation

---

6 Mbps

## Networking

Connectivity  
Technology:

Data Link Protocol: Wired

Features: Ethernet , Fast Ethernet , Gigabit Ethernet

Type: Auto-uplink (auto MDI/MDI-X)

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Network adapter

## Power Device

Form Factor:

Frequency  
Required: External

Nominal Voltage: 60 Hz

Type: AC 120/230 V

---

Power adapter

## Service

Support Details Full  
Contract Period:

Support Details  
Type: 1 year

---

Limited warranty

### **Service & Support**

Type:

---

1 year warranty

### **System**

Conferencing  
System Type:

---

Video conferencing kit

### **Video Input**

Color Support:

Digital Video  
Capture Resolution: Color

Form Factor: 1920 x 1080

Type: External

---

Digital video camera

### **Video Output**

Digital Video  
Standard:

Form Factor: High-Definition Multimedia Interface (HDMI)

Max External  
Resolution: External

Supported Display  
Graphics: 1920 x 1200

Type: 1280x720 , 1680x1050 , 1920x1200 , HDTV  
(1920x1080) , SXGA (1280x1024) , SXGA+

(1400x1050) , VGA (640x480) , XGA (1024x768)

**PRINTER ITEM 1: 3D PRINTER (Item #11)**

Wi-Fi, USB and Ethernet connectivity ensures a seamless production workflow

Smart Extruder, motion controllers, and gantry design

On-board camera and diagnostics, and assisted build plate leveling

App and cloud enabled

Makes true-to-life objects quickly and easily

Build Volume

25.2 L x 19.9 W x 15.0 H cm

[9.9 x 7.8 x 5.9 in]

7,522 cubic centimeters

[456 cubic inches]

Enables you to manufacture on demand

Create realistic prototypes and models for demonstrations and presentations

One-year MakerBot MakerCare Protection Plan

**PRINTER ITEM 2: LASERJET BLACK AND WHITE (Item #12)**

Recommended monthly page volume 750-4,000 pages

Print speed Black print speed Up to 40ppm

Standard connectivity Hi-speed USB 2.0 port Host USB 2.0 Ethernet 10/100/1000T network

Two-sided printing Automatic

Display 2-line LCD

Paper handling Tray 1: up to 100 sheets Tray 2: up to 250 sheets

**PRINTER ITEM 3: LASERJET COLOR (Item #13)**

Print speed black: Normal: Up to 33 ppm

Print speed color: Normal:Up to 33 ppm

First page out (ready) Black: As fast as 11 sec

Color: As fast as 11 sec

Print quality black (best) Up to 1200 x 1200 dpi

Print quality color (best) Up to 1200 x 1200 dpi

Duty cycle (monthly, A4)Up to 75,000 pages

Recommended monthly page volume 1500 to 5000

Print technology Laser

Processor speed 800 MHz

Print languages HP PCL 6, HP PCL 5 (HP PCL 5 driver available from the Web only), HP postscript level 3 emulation, native PDF printing (v 1.4)

Display 4-line LCD (color graphics)



**PRINTER ITEM 4: COLOR LASER PRINTER (Item #14)**

<b>Print Technology</b>	Color Laser Technology
<b>Consumable Type</b>	4 Toner Cartridges & Drum
<b>Max. Black Print Speed (ppm)</b>	25ppm Black
<b>Max. Color Print Speed (ppm)</b>	25ppm Color
<b>Duplex Printing Standard</b>	Yes
<b>Print Resolution (maximum dpi)</b>	Up to 2400 x 600 dpi
<b>LCD Display</b>	Yes (Flip-up)
<b>First Time to Print</b>	Less than 16 sec (color and black)
<b>Printer Driver Compatibility†</b>	Windows® & Mac OS®
<b>Standard Memory (MB)</b>	128MB Memory
<b>Optional Memory (MB)</b>	Up to 256 MB (DDR2 16bit, 144pin)‡
<b>Toner Save Mode</b>	Yes
<b>Max. Monthly Duty Cycle‡</b>	40,000 pages
<b>Recommended Monthly Print Volume‡</b>	500 to 3,000 pages
<b>Standard Paper Capacity (sheets)‡</b>	250-Sheet Input Capacity
<b>Optional Paper Capacity (sheets)</b>	LT-300CL (500 sheets)‡
<b>Multi-purpose Tray Capacity‡</b>	50-Sheet Multi-purpose Tray
<b>Output Paper Capacity (sheets)</b>	150 sheets (face down)
<b>Paper Handling Size - Paper Tray</b>	Letter, Legal, Executive, Folio, A4, A5, B6
<b>Paper Handling Size - Multi-purpose Tray</b>	Width 2.75" to 8.5", Length 4.57" to 16"
<b>Sheet Weight - Paper Tray</b>	16-28 lbs. (bond)
<b>Sheet Weight - Multi-purpose Tray</b>	16-43 lbs. (bond)
<b>Media Type</b>	Plain Paper, Thin Paper, Thick Paper, Thicker Paper, Recycled Paper, Bond, Label, Envelope, Env. Thin, Env. Thick, GlosvPaper

**Recommended Paper Brands**

Plain Paper: Xerox 4200 20 lb., Hammermill  
Laser Paper 24 lb., Labels: Avery Laser Label  
#5160, Glossy Paper

**SUMNER COUNTY BOARD OF EDUCATION**

Purchasing Department  
1500 Airport Road  
Gallatin, TN 37066

COMPANY NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

TELEPHONE \_\_\_\_\_

FAX \_\_\_\_\_

TOLL FREE \_\_\_\_\_

EMAIL \_\_\_\_\_

AUTHORIZED COMPANY REPRESENTATIVE \_\_\_\_\_ *SIGNATURE*

AUTHORIZED COMPANY REPRESENTATIVE \_\_\_\_\_ *PRINTED*

DATE \_\_\_\_\_

BUSINESS LICENSE NUMBER \_\_\_\_\_  
(If Applicable)

STATE OF TN SALES TAX NUMBER \_\_\_\_\_  
(If Applicable)

BID TITLE 20160209 INTERACTIVE TECHNOLOGY

DEADLINE FEBRUARY 9, 2016 @ 10:00 A.M.

BID GOOD THRU \_\_\_\_\_

Guaranteed days till delivery after receipt of order \_\_\_\_\_ Days

**BID SHEET**

**Company Name:** \_\_\_\_\_

**ITEM #1**

Pricing \_\_\_\_\_

Manufacturer \_\_\_\_\_

Model \_\_\_\_\_

Warranty \_\_\_\_\_

Help Desk Number \_\_\_\_\_ Vendor or Manufacturer  
(Circle One)

Percentage Discount of Related Catalog products from this Manufacturer: \_\_\_\_\_

**ITEM #2**

Pricing \_\_\_\_\_

Manufacturer \_\_\_\_\_

Model \_\_\_\_\_

Warranty \_\_\_\_\_

Help Desk Number \_\_\_\_\_ Vendor or Manufacturer  
(Circle One)

Percentage Discount of Related Catalog products from this Manufacturer: \_\_\_\_\_

**ITEM #3**

Pricing \_\_\_\_\_

Manufacturer \_\_\_\_\_

Model \_\_\_\_\_

Warranty \_\_\_\_\_

Help Desk Number \_\_\_\_\_ Vendor or Manufacturer  
(Circle One)

Percentage Discount of Related Catalog products from this Manufacturer: \_\_\_\_\_

**ITEM #4**

Pricing \_\_\_\_\_

Manufacturer \_\_\_\_\_

Model \_\_\_\_\_

Warranty \_\_\_\_\_

Help Desk Number \_\_\_\_\_ Vendor or Manufacturer  
(Circle One)

Percentage Discount of Related Catalog products from this Manufacturer: \_\_\_\_\_

**ITEM #5**

Pricing \_\_\_\_\_

Manufacturer \_\_\_\_\_

Model \_\_\_\_\_

Warranty \_\_\_\_\_

Help Desk Number \_\_\_\_\_ Vendor or Manufacturer  
(Circle One)

Percentage Discount of Related Catalog products from this Manufacturer: \_\_\_\_\_

**ITEM #6**

Pricing \_\_\_\_\_

Manufacturer \_\_\_\_\_

Model \_\_\_\_\_

Warranty \_\_\_\_\_

Help Desk Number \_\_\_\_\_ Vendor or Manufacturer  
(Circle One)

Percentage Discount of Related Catalog products from this Manufacturer: \_\_\_\_\_

**ITEM #7**

Pricing \_\_\_\_\_

Manufacturer \_\_\_\_\_  
Model \_\_\_\_\_

Warranty \_\_\_\_\_

Help Desk Number \_\_\_\_\_ Vendor or Manufacturer  
(Circle One)

Percentage Discount of Related Catalog products from this Manufacturer: \_\_\_\_\_

**ITEM #8**

Pricing \_\_\_\_\_

Manufacturer \_\_\_\_\_  
Model \_\_\_\_\_

Warranty \_\_\_\_\_

Help Desk Number \_\_\_\_\_ Vendor or Manufacturer  
(Circle One)

Percentage Discount of Related Catalog products from this Manufacturer: \_\_\_\_\_

**ITEM #9**

Pricing \_\_\_\_\_

Manufacturer \_\_\_\_\_  
Model \_\_\_\_\_

Warranty \_\_\_\_\_

Help Desk Number \_\_\_\_\_ Vendor or Manufacturer  
(Circle One)

Percentage Discount of Related Catalog products from this Manufacturer: \_\_\_\_\_

**ITEM #10**

Pricing \_\_\_\_\_

Manufacturer \_\_\_\_\_  
Model \_\_\_\_\_

Warranty \_\_\_\_\_

Help Desk Number \_\_\_\_\_ Vendor or Manufacturer  
(Circle One)

Percentage Discount of Related Catalog products from this Manufacturer: \_\_\_\_\_

**ITEM #11**

Pricing \_\_\_\_\_

Manufacturer \_\_\_\_\_  
Model \_\_\_\_\_

Warranty \_\_\_\_\_

Help Desk Number \_\_\_\_\_ Vendor or Manufacturer  
(Circle One)

Percentage Discount of Related Catalog products from this Manufacturer: \_\_\_\_\_

**ITEM #12**

Pricing \_\_\_\_\_

Manufacturer \_\_\_\_\_  
Model \_\_\_\_\_

Warranty \_\_\_\_\_

Help Desk Number \_\_\_\_\_ Vendor or Manufacturer  
(Circle One)

Percentage Discount of Related Catalog products from this Manufacturer: \_\_\_\_\_

**ITEM #13**

Pricing \_\_\_\_\_

Manufacturer \_\_\_\_\_

Model \_\_\_\_\_

Warranty \_\_\_\_\_

Help Desk Number \_\_\_\_\_ Vendor or Manufacturer  
(Circle One)

Percentage Discount of Related Catalog products from this Manufacturer: \_\_\_\_\_

**ITEM #14**

Pricing \_\_\_\_\_

Manufacturer \_\_\_\_\_

Model \_\_\_\_\_

Warranty \_\_\_\_\_

Help Desk Number \_\_\_\_\_ Vendor or Manufacturer  
(Circle One)

Percentage Discount of Related Catalog products from this Manufacturer: \_\_\_\_\_