

BID SPECIFICATIONS CONTRACT FOR

ACCESS 24/7 Grant Project Interactive Whiteboards and Document Cameras

HARDEMAN COUNTY SCHOOL DISTRICT

GENERAL: Hardeman County School District is requesting bids proposals for a total of nine (9) fixed or mobile interactive whiteboards and nine (9) document cameras. Purchases are dependent upon and linked to Improving Literacy through School Libraries federal grant funding, the Director of School's approval of the contract, and final approval by the individual end users. Qualified vendors are requested to furnish and install/setup interactive whiteboard and document cameras as well as provide training and annual technical support and maintenance of the equipment.

BIDDING INSTRUCTIONS/DEADLINE: Bid package can be located on the Hardeman County Board of Education Website - <http://www.hardemancountyschools.org/Bid%20Packages.html>. Bidders must clearly and independently identify all fees associated with their services including items such as maintenance and any optional/extended services. Questions regarding bid specifications or requirements should be directed to Dr. Dorrie Powell, Librarian – Bolivar Central High School – (731-658-3151, ext. 33). Bids should be clearly identified on the outside of a sealed envelope as “Bid- Interactive Whiteboard and Document Cameras Access 24/7 Grant Project-Hardeman County Schools, ATTN: Willie Spencer/Dorrie Powell” and received no later than 10:00 a.m. central standard time, on January 26, 2011, at the following address:

**The County Mayor's Office
100 N. Main, P.O. Box 250
Bolivar, Tennessee 38008
Attention Willie Spencer / Dorrie Powell**

VENDOR REQUIREMENTS/TERMS OF CONTRACT:

1. **PUBLIC CHAPTER 587.** Vendors are required to comply with Tennessee Code Annotated, Section 49-5-413 enacted on September 1, 2007, which states that all employees who will have access to the grounds of a school must supply verification documentation for each employee that a background check has been performed by Tennessee Bureau of Investigation and the Federal Bureau of Investigation, prior to access to the school.
2. **INDEPENDENT CONTRACTOR/INSURANCE/TAXES.** The parties hereto, in the performance of this Contract, shall be acting in their individual capacities and not as employees, partners, joint venturers, or associates of one another. It is expressly acknowledged by the parties hereto that such parties are independent contracting entities and that nothing in this Contract shall be construed to make an employer/employee relationship or to allow either to exercise control or direction over the manner or method by which the other transacts its business affairs or provides its usual services. The employees or agents of one party shall not be deemed or construed to be the employees or agents of the other party for any purpose whatsoever. None of the parties hereto shall hold itself out in a manner contrary to the terms of this paragraph. No party shall become liable for any representation, act or omission of any other party contrary to the terms of this paragraph. During the term of this Contract, Contractor shall maintain errors and omissions liability insurance with limits not less than one million dollars (\$1,000,000.00). A certificate of insurance, in a form satisfactory to the local government entity, evidencing said coverage shall be provided to the local government agency prior to commencement of performance of this Contract. Throughout the term of this contract, Contractor shall provide an updated certificate of insurance upon expiration of the current certificate. *****Any bid submitted without a certificate of insurance will be rejected.*****
3. **LIABILITY.** The local government entity shall have no liability except as specifically provided in this Contract.
4. **HOLD HARMLESS.** The Contractor agrees to indemnify and hold harmless the local government entity as well as its officers, agents, and employees from and against: (a) any and all claims, liabilities, losses, and causes of action which may arise, accrue, or result to any person, firm, corporation, or other entity which may be injured or damaged as a result of acts, omissions, bad faith, negligence, or willful misconduct on the part of the Contractor, its officers, its employees, or any person acting for or on its or their behalf relating to this Contract; and (b) any claims, damages, penalties, costs and attorney fees arising from any failure of Contractor, its officers, employees, and/or agents, including its sub- or independent contractors, to observe applicable laws, including, but not limited to, labor and minimum wage laws. The Contractor further agrees it shall be liable for the reasonable cost of attorneys for the State in the event such service is necessitated to enforce the terms of this Contract or otherwise enforce the obligations of the Contractor to the State. In the event of any such suit or claim, the Contractor shall give the local government entity immediate notice thereof and shall provide all assistance required by the local government entity in its defense. The local government entity will not indemnify, defend or hold harmless in any fashion the Contractor for any claims, regardless of any language in any attachment or other document that the Contractor may provide. Contractor shall pay the local government entity any expenses incurred as a result of Contractor's failure to fulfill any obligation in a professional and timely manner under this Contract.

5. **STATE AND FEDERAL COMPLIANCE.** The Contractor shall comply with all applicable local, State and Federal laws and regulations in the performance of this Contract. This Contract shall be governed by and construed in accordance with the laws of the State of Tennessee regardless of any language in any attachment or other document that the Contractor may provide. Any action between the parties arising from this agreement shall be maintained in the courts of the county of the local government entity in the State of Tennessee. The Contractor agrees that it will be subject to the exclusive jurisdiction of the courts of the State of Tennessee and the courts of the United States which are located within the State of Tennessee in actions that may arise under this Contract.
6. **COMPLETENESS.** This Contract is complete and contains the entire understanding between the parties relating to the subject matter contained herein, including all the terms and conditions of the parties' agreement. This Contract supersedes any and all prior understandings, representations, negotiations, and agreements between the parties relating hereto, whether written or oral.
7. **TECHNICAL SUPPORT/VENDOR OFFICE OR TECHNICIANS.** Vendors are required to have an office or representative(s) within a radius that can provide support within a 24 hour window from time request for support is issued by Hardeman Co. Schools. This will insure that the vendors can provide needed service in a timely manner. Vendor must provide an 800 phone line for technical support at no additional charge to the school system during the warranty period if the support location is out of the local calling area. Vendor is required to provide 48-hour response time on any problems that may occur with network or computer equipment. Please list all technicians, their locations, and experience.

**OFFICE OR TECHNICIAN'S
ADDRESS** _____

**TOLL FREE TECHNICAL SUPPORT
NUMBER** _____

8. **CLIENT/REFERENCE LIST.** Vendor must provide a list of School References (Min. of 5) where similar hardware and software have been installed as proposed. (List Contact Name and Telephone Number, preferably within the State of Tennessee.)
*****Any bid submitted without a client reference list will be rejected.*****
9. **FINANCIAL STABILITY.** Vendor must be willing to provide financial statements and bank references if required to show financial stability to a school system.
10. **PRICE PROTECTION.** All prices must be Free On Board (F.O.B.) to Hardeman Co. Schools. Prices quoted must be good for 1 year from the date of award. Vendor must deliver, setup, install, and test every system on the network. Delivery and installation of these systems into the network must be completed within 90 days of obtaining the purchase order. **Vendor must provide on-site services after the warranty period.**
11. **RIGHT TO REJECT PROPOSALS.** Hardeman Co. School System reserves the right to reject any or all proposals, to waive technicalities or informality and to accept any proposal deemed to be in the best interest of the county.

12. **RIGHT TO PURCHASE SELECTED ITEMS ON BID.** Hardeman Co. School System reserves the right to purchase selected items on this bid. If funds to purchase entire bid are not available, Hardeman Co. School System may purchase selected items at this time and the balance within the next school year.
13. **COMPATIBILITY.** All proposed hardware and software additions must be compatible with previously installed equipment.
14. **CODES, STANDARDS, AND REGULATIONS** All FCC regulations governing Wireless Telecommunications must be followed. All network/telecommunication cabling must comply with applicable Tennessee building and fire codes. All electrical codes, standards and guidelines govern the installation practices and materials used. The minimum standards will meet ANSI/TIA/EIA-568, 569, 570, 598, 606, 607, 758, TIA/EIA TSB-67, 72, 75. Other considerations concerning 802.11 deployment must be met, which includes IEEE 802.11i, IEEE 802.11e, Wi-Fi certification, WMM certification, IEEE 802.11a, IEEE 802.11.b, IEEE 802.11g., IEEE 802.11i, Layer-3 mobility, and IEEE 802.3af.
15. **WARRANTY:** Hardware and installation should be warranted for a minimum of three (3) years.
16. **SEVERABILITY.** If any terms and conditions of this Contract are held to be invalid or unenforceable as a matter of law, the other term and conditions hereof shall not be affected thereby and shall remain in full force and effect. To this end, the terms and conditions of this Contract are declared severable.
17. **IMPLEMENTATION TIMELINE.** All hardware/software recommended by the vendor must be in stock and available for delivery and installation in the quantities requested within 30 calendar days of placement of the order. Initial on-site training must be provided within 45 calendar days of the placement of the order. Follow-up on-site training will be scheduled at an agreed upon date within one calendar year of placement of the order. Vendor agrees that no invoices will be paid until equipment is installed/setup and initial on-site training has been provided.

Any exception taken to any specification **must** be stated immediately following the specification in question. Vendors are advised that the district is interested in receiving proposals from vendors who can offer an interactive whiteboard and document camera already in use by an installed customer base, and that proposals for systems in an Alpha or Beta phase of development will not be considered. The district reserves the right to evaluate all proposals solely on the basis of currently existing features, functions, products, or services meeting the specifications as stated.

I agree to all of the above terms and guarantee to meet all said terms, unless otherwise noted, to the satisfaction of the school district.

Name _____ Title _____

Company _____

Signature _____ Date _____

SCOPE OF WORK:

Hardeman County Schools expects a turnkey solution where the selected vendor is responsible for managing the entire project from design phase through user acceptance, to include any necessary on-going support and maintenance. The Interactive Whiteboard and Document Cameras Bid includes 4 separate and distinct components composed of 1) a fixed interactive whiteboard, 2) a mobile interactive whiteboard, 3) a document camera, and 4) professional development training on both the fixed and mobile interactive whiteboards and document camera. Prospective vendors are permitted to submit individual bids on the three separate components identified in the previous sentence. Responsibilities include, but are not limited to: site surveys; installation of interactive whiteboards and document cameras in the libraries residing at 9 separate schools; technical support and recommendations so that the school system can fully realize the capabilities of the new Interactive Whiteboards and Document Cameras (while conforming to the needs of the individual schools); and initial training to utilize the hardware/software to its full potential. Equipment warranty should cover a minimum of 3 years. As part of the solution, on-site training over the use and management of the interactive whiteboard equipment is expected as part of the user acceptance condition. On-site training is not required for use of the document cameras, but some form of training will be necessary, whether it is on-line, on-site, or in a video format. Hardeman County Schools serves approximately 4100 students in the system's nine (9) schools, which have the following grade configurations: Bolivar Central High School, grades 9-12; Middleton High School, grades 7-12; Bolivar Middle School, grades 6-8; Hornsby Elementary School, grades K-8; Toone Elementary School, grades K-8; Whiteville Elementary School, grades K-8; Middleton Elementary School, grades K-6; Grand Junction Elementary School, grades K-6; and Bolivar Elementary Schools, grades K-5.

The selected Interactive Whiteboards and Document Cameras will serve as a key part of the ACCESS 24/7 Library Grant Project for Hardeman County Schools. The selected vendor must include on-site professional development to ensure that the end-user is trained and capable of fully utilizing interactive whiteboards, and some format of formal professional development must be provided for the use of the document camera. The professional development requirement dictates that proposed fixed and mobile interactive whiteboard solutions must be from the same manufacturer.

Component #1 Fixed Interactive Whiteboard Solution - Critical Requirements

The vendor of the interactive whiteboard under consideration should be in a position to meet the following critical requirements by the proposal due date. None of these critical elements are optional. Vendors must provide references of districts that have implemented the proposed interactive technology meeting these requirements and have been operational for at least one full school year.

The fixed interactive whiteboard solution must meet these critical technology requirements:

- **Quantity will be a minimum 2 systems, each to be installed at a different school site.**
- **Size of fixed whiteboard and model of projector will be determined by site survey and may vary among schools.**
- **Interactive whiteboard and projector should meet specifications listed below in this request package.**
- **All software needed must be included in bid package.**
- **All equipment (board, projector, wall mount) will be quoted to include a minimum 3-year warranty.**
- **Installation must be included in the bid and include site survey, all conduit/conduit, and longer cables if needed; whatever is required for installation must be included in the installation fee.**
- **On-site Professional Development must be included; on-line tutorials may also be provided but will not take the place of on-site training. See component #4 for details.**
- **Vendor must include software and upgrades free of additional charge. Software must be licensed for installation on more than one computer per board.**
- ***Note: Vendor must complete the following checklist for each Fixed Interactive Whiteboard recommended.**

Fixed Interactive Whiteboard Solution

Model # _____

SKU _____

Please answer Y = Yes, N= Not Available, E=Exceeds Specification

General Specifications:

_____ Internal Resolution	2730 points (lines) per inch
_____ Output Resolution	200 points (lines) per inch
_____ Tracking Rate	200 inches per second providing a fast response to pen commands
_____ Output Rate	120 coordinate pairs per second
_____ User Input	Cordless battery-free pen incorporating tip switch and side switch for full mouse functionality
_____ Digitizing Technology	Passive Electromagnetic
_____ Power Requirement	USB powered device
_____ Connection to Computer	USB and wireless
_____ Screen Surface	Low Glare Melamine
_____ Certifications	UL, CE, FCC
_____ Dual User Functionality	2 Teacher and 2 Student pens to be included
_____ Integrated USB Sound	Two integrated slim line speakers and amplifier (with controls, inputs and outputs) to be included
_____ Software	All-inclusive software with multi-user license and upgraded free of charge as newer versions are released
_____ Warranty	Minimum 3 years on board and projector

Integrated USB Sound Specifications:

_____ Amplifier Power Output	20W per channel RMS (<1% distortion)
_____ Controls	Volume, Base, Treble, on/off
_____ Amplifier Frequency Response	40Hz to 18kHz +/-3dB (at 1W)
_____ USB Sound	USB Sound supported for Minimum System Requirements stated
_____ Connectivity – Inputs (4)	Stereo PC, Stereo CD/DVD, Mono Auxiliary, Microphone to PC via PC
_____ Connectivity – Outputs (2)	2 Stereo
_____ Power Requirement	18V 3.3 Amp

Board Specifications (two sizes):

_____ Board Size	78 in diagonal
_____ Resolution	12800 x 9200
_____ Screen Formats	4:3
_____ Overall Dimensions	1868mm x 1329mm (73.5in x 52.3in)

_____ Active Area Dimensions	1628mm x 1175mm (64in x 46in)
_____ Active Area Diagonal	2000mm (78.7in)
_____ Actual Image Diagonal	1958mm (77.1in)
_____ Board Weight (approx.)	28kg (62lb)
_____ Board Size	87 in diagonal
_____ Resolution	14600 x 9200
_____ Screen Formats	16:10
_____ Overall Dimensions	2105mm x 1329mm (82.9in x 52.3in)
_____ Active Area Dimensions	1865mm x 1175mm (73in x 46in)
_____ Active Area Diagonal	2196mm (86.5in)
_____ Actual Image Diagonal	2193mm (86.4in)
_____ Board Weight (approx.)	32kg (71lb)

Fixed Frame Specifications:

_____ Board Size	Accommodates board meeting specifications listed above
_____ Projector Mount	Aluminum arm extending 1600mm (62.9in) from the board.
_____ Power	Integrated ‘power management’ system for board and projector
_____ Weight (approx.)	Frame only: 23kg (50.7lb) excl. board, projector and cabling
_____ Complete System Weight	53kg (116lb) (with board fitted)
_____ Cables	All cables needed for installation/operation to be included

Projector Specifications (two types):

_____ Model type	Ultra-short throw LCD
_____ Native Resolution	WXGA (1280 x 800)
_____ Compressed Resolution	up to 1080i
_____ Typical Colors	16.77 million colors
_____ Brightness (ANSI lumens)	1900lm/1500lm/ 2500lm (normal/normal 2/high)
_____ Contrast Ratio	500:1
_____ Noise Level	29dB (normal), 36dB (high brightness mode)
_____ Dimensions (w x d x h) approx.	382mm x 430mm x 129mm (15in x 16.9in x 5in)
_____ Weight approx.	0.7kg (12.5lb)
_____ Aspect Ratio	516:10 (native), 4:3, 16:9
_____ Power Consumption	317W (<0.8W standby)
_____ Device Type	LCD technology
_____ Focus	Manual
_____ Zoom	Digital

_____ Focal Length	Fixed
_____ Projection Distance	0.54m ~ 1.22m (21.3in ~ 48in)
_____ Projection Screen Size	1.27m ~ 2.79m (50in ~ 110in)
_____ Lamp Type	230W lamp
_____ Lamp Life	4000 hrs (normal); 3000 hrs (high)
_____ Keystone Correction	Vertical: $\pm 20^\circ$
_____ Operating Temperature	5°C ~ 35°C (41°F ~ 95°F)
_____ Power Supply Voltage	100-240V AC, 50/60Hz
_____ Horizontal Scan Rate	15Hz ~ 90kHz
_____ Vertical Scan Rate	50Hz ~ 85 Hz
_____ Computer Compatibility	Windows PC (XP or 7, laptop or desktop)
_____ Video Compatibility	NTSC (3.58/4.43), PAL (B/D/G/H/I/M/N), SECAM (B/D/G/K/K1/L), HDTV (720p, 1080i, 1035i), EDTV (480p, 575i), SDTV (480i, 576i)
_____ Inputs/Outputs	Computer In (D-sub 15-pin RGB) x 1 Computer In/Out (D-sub 15-pin RGB) selectable x 1 HDMI (Digital RGB) x 1 Composite Video (RCA) x 1 S - Video x 1 Stereo mini-jack In x 1 Audio In (RCA white/red) x 1 Networking LAN (RJ45) x 1 Serial RS-232C x 1
_____ Security	Kensington Lock, Security cable bar option, pin code security, remote control operated only
_____ On-screen Menu	Arabic, Chinese (Simplified), Chinese (Traditional), Danish, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Kazak, Korean, Norwegian, Polish, Portuguese, Portuguese (Brazilian), Romanian, Russian, Spanish, Swedish, Turkish
_____ Advanced Features	Long Life Filter – 4000hrs Cable Management Cover Quick Lamp Access Direct power on/off
_____ Model Type	Ultra-Short Throw (DLP)
_____ Native Resolution	WXGA (1280 x 800)
_____ Compressed Resolution	up to 1080i
_____ Typical Colors	16.77 million colors
_____ Brightness (ANSI lumens)	2200 ANSI (normal), 2500 ANSI (high)
_____ Contrast Ratio	2000:1
_____ Noise Level	28dB (normal) 32dB (high brightness mode)
_____ Dimensions (w x d x h)	354mm x 319mm x 157mm (13.9in x 12.6in x 6.1in) not including lens; 354mm x 411mm

	x 219mm (13.9in x 16.1in x 8.6in) including lens
_____ Weight	9kg (19.8lb)
_____ Aspect Ratio	16:10 (native), 4:3, 16:9
_____ Power Consumption	290W (<1W standby)
_____ Device Type	DLP Technology
_____ Focus Zoom	Manual Focus N/A
_____ Focal Length	F=2.4
_____ Projection Distance	0.39m ~ 0.56m (15in ~ 22in)
_____ Projection Screen Size	1.98m ~2.79m (78in ~ 110in)
_____ Lamp Type	220W lamp
_____ Lamp Life	6000hrs (normal) 4000hrs (high)
_____ Keystone Correction	Vertical: max ±15°
_____ Operating Temperature	5°C ~ 35°C (41°F ~ 95°F)
_____ Power Supply Voltage	100 - 240V AC, 50/60Hz
_____ Horizontal Scan Rate	15Hz ~ 90kHz
_____ Vertical Scan Rate	43Hz ~ 85Hz
_____ Computer Compatibility	Windows PC (XP or 7, laptop or desktop)
_____ Video Compatibility	NTSC (3.58/4.43), PAL (B/D/G/H/I/M/N), SECAM (B/D/G/K/K1/L), HDTV (720p, 1080i, 1035i), EDTV (480p, 575i), SDTV (480i, 576i)
_____ Inputs	D-sub 15-pin (RGB) x2 HDMI V1.3 x1 RCA x 1, S-Video x 1 LAN (RJ45) x1 RS-232C (D-sub 9-pin) x1 USB x1
_____ Security	Padlock and security cable hole, Kensington lock hole, pin code security
_____ On-screen Menu	Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Turkish
_____ Advanced Features	3D Ready Crestron RoomView Quick Start Instant Off Source Search Freeze Quick Access Lamp Closed Caption

Component #2 Mobile Interactive Whiteboard Solution - Critical Requirements

The vendor of the mobile interactive whiteboard under consideration should be in a position to meet the following critical requirements by the proposal due date. None of these critical elements are optional. Vendors must provide references of districts that have implemented the proposed interactive technology meeting these requirements and have been operational for at least one full school year.

The interactive whiteboard mobile solution must meet these critical technology requirements:

- **Quantity will be a minimum 7systems, each to be installed at a different school site.**
- **Interactive whiteboard and projector should meet specifications listed below in this request package.**
- **All software needed must be included in bid package.**
- **All equipment (board, projector, mobile stand) will be quoted to include a minimum 3-year warranty.**
- **Installation/setup must be included in the bid and include site survey, all panduit/conduit, and longer cables if needed; whatever is required for installation must be included in the installation fee.**
- **On-site Professional Development must be included; on-line tutorials may also be included but will not take the place of on-site training. See component #4 for details.**
- **Vendor must include software and upgrades free of additional charge. Software must be licensed for installation on more than one computer per board.**
- **If an LCD projector will not work with the mobile interactive whiteboard, please state this in your bid response.**
- ***Note: Vendor must complete the following checklist for each Mobile Interactive Whiteboard recommended.**

Interactive Whiteboard Mobile Solution

Model # _____ **SKU** _____

Please answer Y = Yes, N= Not Available, E=Exceeds Specification

General Specifications:

_____ Internal Resolution	2730 points (lines) per inch
_____ Output Resolution	200 points (lines) per inch
_____ Tracking Rate	200 inches per second providing a fast response to pen commands
_____ Output Rate	120 coordinate pairs per second
_____ User Input	Cordless battery-free pen incorporating tip switch and side switch for full mouse functionality
_____ Digitizing Technology	Passive Electromagnetic
_____ Power Requirement	USB powered device
_____ Connection to Computer	USB and wireless
_____ Screen Surface	Low Glare Melamine
_____ Certifications	UL, CE, FCC
_____ Dual User Functionality	2 Teacher and 2 Student pens to be included
_____ Integrated USB Sound	Two integrated slim line speakers and amplifier (with controls, inputs and outputs) to be included
_____ Warranty	Minimum 3 years on board and projector

Integrated USB Sound Specifications:

_____ Amplifier Power Output	20W per channel RMS (<1% distortion)
_____ Controls	Volume, Base, Treble, on/off
_____ Amplifier Frequency Response	40Hz to 18kHz +/-3dB (at 1W)
_____ USB Sound	USB Sound supported for Minimum System Requirements stated
_____ Connectivity – Inputs (4)	Stereo PC, Stereo CD/DVD, Mono Auxiliary, Microphone to PC via PC
_____ Connectivity – Outputs (2)	2 Stereo
_____ Power Requirement	18V 3.3 Amp

Board Specifications:

_____ Board Size	87 in diagonal
_____ Resolution	14600 x 9200
_____ Screen Formats	16:10
_____ Overall Dimensions	2105mm x 1329mm (82.9in x 52.3in)
_____ Active Area Dimensions	1865mm x 1175mm (73in x 46in)
_____ Active Area Diagonal	2196mm (86.5in)
_____ Actual Image Diagonal	2193mm (86.4in)
_____ Board Weight (approx.)	32kg (71lb)

Mobile Stand Specifications:

_____ Board Size	Accommodates board meeting specifications listed above
_____ Height Settings	Height-adjustable mount, with 600mm (23.6in) of adjustment from 350mm (13.8in) to 950mm (37.4in) ± 50mm (1.9”). Top and bottom limit stops to be fitted if the full range of movement is not required/appropriate. Height adjustment powered by electrical motor and operated by a switch.
_____ Actuator Specification	Input Voltage: 24VDC Max Load: 750N Static Load: more than 750N Speed: 30mm/s (no load), 20mm/s (750N) Stroke Length: 600 ± 2mm Retracted Length: 795 ± 2mm End Mounting Dimension: H Type, ø10.1 hole, 6.3mm Slot Limit Switch: Built-in Duty Cycle: S2-10min Temperature: -26° - 65°C IP Degree: IP54 AC-DC Adaptor:

_____ Projector Boom	Input Voltage: 100 ~ 240VAC Output Voltage: 29VDC Current: 2Amp (4Amp protected) Cable and Plug: 1.5m, IEC Plug Aluminum boom arm, extends 740mm (29.1in) from the back of the System. Projector Boom adjusts with the height of the Board reducing the need for specific re-calibration following height adjustment.
_____ Mobile Base Dimensions	1400mm x 740mm (55.1in x 29.1in)
_____ Room Height Requirements	Minimum 2562mm (100.87in) for full range
_____ Door Size Requirements	Minimum door height clearance of 1962mm (77.24in) and door width clearance of 775mm (30.5in).
_____ Power	Integrated 'power management' system for Board, Mobile Stand and Projector with one lead from the Mobile System to plug in to a wall socket.
_____ Weight	Frame only (approx.): 100kg (220.5lb); excludes board, projector, cabling and accessories. Complete System Weight (approx.): 140kg (308.5lb) (when Board is fitted)
_____ Connectivity Panel	Connectivity panel with inputs for VGA, stereo jack audio, USB-B input (for Board), S-video, composite video plus auxiliary audio jack inputs, Cat 5e Ethernet input.
_____ Cables	All cables needed for installation/operation to be included
_____ Power	Integrated 'power management' system for board and projector
_____ Storage Unit	Drawer or cabinet section in base for storage
_____ Dry Erase Whiteboard	Additional whiteboard space attached to side
_____ Shelf	Mounted on side of board to support laptop up to 17 inches or document camera of similar size with security lock/cable included

Projector Specifications (two types):

_____ Model type	Ultra short throw LCD
_____ Native Resolution	WXGA (1280 x 800)
_____ Compressed Resolution	up to 1080i
_____ Typical Colors	16.77 million colors
_____ Brightness (ANSI lumens)	1900lm/1500lm/ 2500lm (normal/normal 2/high)
_____ Contrast Ratio	500:1

_____ Noise Level	29dB (normal), 36dB (high brightness mode)
_____ Dimensions (w x d x h) approx.	382mm x 430mm x 129mm (15in x 16.9in x 5in)
_____ Weight approx.	0.7kg (12.5lb)
_____ Aspect Ratio	516:10 (native), 4:3, 16:9
_____ Power Consumption	317W (<0.8W standby)
_____ Device Type	LCD technology
_____ Focus	Manual
_____ Zoom	Digital
_____ Focal Length	Fixed
_____ Projection Distance	0.54m ~ 1.22m (21.3in ~ 48in)
_____ Projection Screen Size	1.27m ~ 2.79m (50in ~ 110in)
_____ Lamp Type	230W lamp
_____ Lamp Life	4000 hrs (normal); 3000 hrs (high)
_____ Keystone Correction	Vertical: ±20°
_____ Operating Temperature	5°C ~ 35°C (41°F ~ 95°F)
_____ Power Supply Voltage	100-240V AC, 50/60Hz
_____ Horizontal Scan Rate	15Hz ~ 90kHz
_____ Vertical Scan Rate	50Hz ~ 85 Hz
_____ Computer Compatibility	Windows PC (XP and 7, laptop or desktop)
_____ Video Compatibility	NTSC (3.58/4.43), PAL (B/D/G/H/I/M/N), SECAM (B/D/G/K/K1/L), HDTV (720p, 1080i, 1035i), EDTV (480p, 575i), SDTV (480i, 576i)
_____ Inputs/Outputs	Computer In (D-sub 15-pin RGB) x 1 Computer In/Out (D-sub 15-pin RGB) selectable x 1 HDMI (Digital RGB) x 1 Composite Video (RCA) x 1 S - Video x 1 Stereo mini-jack In x 1 Audio In (RCA white/red) x 1 Networking LAN (RJ45) x 1 Serial RS-232C x 1
_____ Security	Kensington Lock, Security cable bar option, pin code security, remote control operated only
_____ On-screen Menu	Arabic, Chinese (Simplified), Chinese (Traditional), Danish, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Kazak, Korean, Norwegian, Polish, Portuguese, Portuguese (Brazilian), Romanian, Russian, Spanish, Swedish, Turkish
_____ Advanced Features	Long Life Filter – 4000hrs Cable Management Cover Quick Lamp Access Direct power on/off

_____ Model Type	Ultra-Short Throw (DLP)
_____ Native Resolution	WXGA (1280 x 800)
_____ Compressed Resolution	up to 1080i
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_____ Brightness (ANSI lumens)	2200 ANSI (normal), 2500 ANSI (high)
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_____ Dimensions (w x d x h)	354mm x 319mm x 157mm (13.9in x 12.6in x 6.1in) not including lens; 354mm x 411mm x 219mm (13.9in x 16.1in x 8.6in) including lens
_____ Weight	9kg (19.8lb)
_____ Aspect Ratio	16:10 (native), 4:3, 16:9
_____ Power Consumption	290W (<1W standby)
_____ Device Type	DLP Technology
_____ Focus Zoom	Manual Focus N/A
_____ Focal Length	F=2.4
_____ Projection Distance	0.39m ~ 0.56m (15in ~ 22in)
_____ Projection Screen Size	1.98m ~2.79m (78in ~ 110in)
_____ Lamp Type	220W lamp
_____ Lamp Life	6000hrs (normal) 4000hrs (high)
_____ Keystone Correction	Vertical: max ±15°
_____ Operating Temperature	5°C ~ 35°C (41°F ~ 95°F)
_____ Power Supply Voltage	100 - 240V AC, 50/60Hz
_____ Horizontal Scan Rate	15Hz ~ 90kHz
_____ Vertical Scan Rate	43Hz ~ 85Hz
_____ Computer Compatibility	Windows PC (XP or 7, laptop or desktop)
_____ Video Compatibility	NTSC (3.58/4.43), PAL (B/D/G/H/I/M/N), SECAM (B/D/G/K/K1/L), HDTV (720p, 1080i, 1035i), EDTV (480p, 575i), SDTV (480i, 576i)
_____ Inputs	D-sub 15-pin (RGB) x2 HDMI V1.3 x1 RCA x 1, S-Video x 1 LAN (RJ45) x1 RS-232C (D-sub 9-pin) x1 USB x1
_____ Security	Padlock and security cable hole, Kensington lock hole, pin code security
_____ On-screen Menu	Arabic, Chinese (Simplified), Chinese (Traditional), Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Turkish
_____ Advanced Features	3D Ready Crestron RoomView Quick Start Instant Off

Source Search
Freeze
Quick Access Lamp
Closed Caption

Component #3 Document Camera - Critical Requirements

The vendor of the document camera under consideration should be in a position to meet the following critical requirements by the proposal due date. None of these critical elements are optional. Vendors must provide references of districts that have implemented the proposed interactive technology meeting these requirements and have been operational for at least one full school year.

The document camera must meet these critical technology requirements:

- **Quantity will be 9 document cameras, each to be used in conjunction with a wall-mounted or mobile interactive whiteboard and a Windows PC (laptop or desktop) in a school library.**
- **Document camera solutions should meet specifications listed below.**
- **Document cameras must be compatible with Windows XP and Windows 7.**
- **Document cameras will be quoted to include a minimum 3-year warranty.**
- **All cables needed for connection with PC computer and/or interactive whiteboard must be included.**
- **All software needed must be included**
- **Vendor must include software/upgrades for integration with PC computer and/or interactive whiteboard free of additional charge. Software must be licensed for installation on more than one computer per board.**
- **Note: Vendor must complete the Checklist for the Document Camera that is recommended.**

Document Camera Solution

Model # _____ SKU _____

Please answer Y = Yes, N= Not Available, E=Exceeds Specification

General:

_____ Power Source	12VDC (AC adaptor 100-240V)
_____ Power Consumption	15W (AC adaptor included)
_____ Outside Dimensions (approx.)	W350xD370.5xH411.5mm (W13.8xD14.6xH16.2in) (when Setup)
_____ Weight (approx.)	2.9kg (6.4lbs) (Main body only)
_____ Input selection	Main / External
_____ Output terminal	RGB output Min Dsub 15p connector, female Composite video output RCA pin* jack/75Ω unbalanced (NTSC/PAL)
_____ Input terminal	RGB input Mini Dsub 15P connector female
_____ Recorder terminal	Dedicated connector
_____ Ext. control terminal	USB (2.0 compliant) Type B receptacle
_____ Memory interface	SD card slot

Camera:

_____ Lens	f = 3.85mm - 20.02mm (5.2x zoom) F2.8 - 3.2
_____ Frame rate	Max. 30 frames /sec.
_____ Shooting area	SXGA: Max. 417x331mm Min. 92x74mm WXGA : Max. 417x246mm Min.92x56mm

_____	Limit of focus	XGA: Max. 417x309mm Min. 92x69mm 50mm - ∞ (2.0in x) form lens top
_____	Optical zoom	5.2X
_____	Digital zoom	8X
_____	Focus	Auto / Manual
_____	Image pick-up element	1/3" CMOS
_____	Total pixels	Horizontal 1384, Vertical 1076(Approx.) 1,490,000 pixels
_____	Effective Pixels	Horizontal 1329, Vertical 1049
_____	Synchronized signal	Internal
_____	Analog RGB Output	0.7V (p-p) 75Ω unbalanced Synchronized signal SXGA: Positive polarity WXGA: Horizontal negative polarity, Vertical positive polarity XGA: Negative polarity SXGA: 1280x1024 @60Hz Horizontal frequency: 63.981 kHz Vertical frequency: 60.020Hz WXGA: 1280x800 @60Hz Horizontal frequency: 49.306 kHz Vertical frequency: 59.910Hz XGA: 1024x768 @60Hz Horizontal frequency: 48.363 kHz Vertical frequency: 60.004Hz
_____	White balance	Full auto/One-push/Manual
_____	Image rotation	0°/ 180°
_____	Mode	Text 1, Text 2, Text 3, Graphic 1, Graphic 2
_____	Pause	Provided
_____	Slide show	Provided (SD image data)
_____	Illumination lamp	White LED

Component #4 Professional Development - Critical Requirements

The vendor of the interactive white board (mobile and fixed) under consideration must be in a position to meet the following critical requirements by the proposal due date. None of these critical elements are optional.

The professional development solution for the interactive white board must meet these critical requirements:

- One Initial Day of **Instructor led On-Site Training** for up to 20 participants on use of proposed interactive whiteboard. Initial on-site training must be provided within 45 calendar days of the placement of the order.
- Follow-up **Instructor led On-Site Training** on-site training will be scheduled at an agreed upon date within one calendar year of placement of the order, and will be for up to 20 participants on use of proposed interactive whiteboard.

**BID RETURN FORM FOR COMPONENT #1
FIXED INTERACTIVE WHITEBOARD SOLUTION**

VENDOR'S NAME _____ CONTACT PERSON _____ ADDRESS _____ _____	TELEPHONE _____ FAX NO. _____ EMAIL _____ _____
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SIGNATURE OF/FOR VENDOR DATE

Provide your bid total after considering all specifications herein. Final cost proposals should be included for all software and recommended equipment, including any equipment which may be purchased separately. Cost should be provided on a unit basis, when possible. All separate modules or features should be separated in the cost proposal. Annual maintenance/support and training costs should be included. Prices shall remain valid for 1 year after the bid opening. Deviation from this response form will result in disqualification. Optional features should be detailed with associated cost referenced below.

Fixed Interactive Whiteboard (Cost Per Unit)

78 inch interactive whiteboard with ultra short throw LCD projector mounted on arm attached to board including software	\$
78 inch interactive whiteboard with ultra short throw DLP projector mounted on arm attached to board including software	\$
87 inch interactive whiteboard with ultra short throw LCD projector mounted on arm attached to board including software	\$
87 inch interactive whiteboard with ultra short throw DLP projector mounted on arm attached to board including software	
Installation/setup of fixed interactive whiteboard	\$
Extended Maintenance Agreement for fixed interactive whiteboard (3 yr. min.)	\$
Extended Maintenance Agreement for projector (3 yr. min.)	\$
Base Price 78 inch interactive with LCD projector per school:	\$
Base Price 78 inch interactive with DLP projector per school:	\$
Base Price 87 inch interactive with LCD projector per school:	\$
Base Price 87 inch interactive with DLP projector per school:	\$

**BID RETURN FORM FOR COMPONENT #2
MOBILE INTERACTIVE WHITEBOARD SOLUTION**

VENDOR'S
NAME

TELEPHONE

CONTACT
PERSON

FAX NO.

ADDRESS

EMAIL

SIGNATURE OF/FOR VENDOR

DATE

Provide your bid total after considering all specifications herein. Final cost proposals should be included for all software and recommended equipment, including any equipment which may be purchased separately. Cost should be provided on a unit basis, when possible. All separate modules or features should be separated in the cost proposal. Annual maintenance/support and training costs should be included. Prices shall remain valid for 1 year after the bid opening. This form may not be altered in any way. Deviation from this response form will result in disqualification. Optional features should be detailed with associated cost referenced below.

Mobile Interactive Whiteboard (Cost Per Unit)

87 inch interactive whiteboard with ultra short throw LCD projector mounted on arm attached to board including software	\$
87 inch interactive whiteboard with ultra short throw DLP projector mounted on arm attached to board including software	\$
Installation/setup of mobile interactive whiteboard	\$
Extended Maintenance Agreement for mobile interactive whiteboard	\$
Extended Maintenance Agreement for projector	\$
Base Price with LCD projector	\$
Base Price with DLP projector	\$

*BID RETURN FORM FOR COMPONENT #3
DOCUMENT CAMERA*

VENDOR'S
NAME

TELEPHONE

CONTACT
PERSON

FAX NO.

ADDRESS

EMAIL

SIGNATURE OF/FOR VENDOR

DATE

Provide your bid total after considering all specifications herein. Final cost proposals should be included for all software and recommended equipment, including any equipment which may be purchased separately. Cost should be provided on a unit basis, when possible. All separate modules or features should be separated in the cost proposal. Annual maintenance/support and training costs should be included. Prices shall remain valid for 1 year after the bid opening. This form may not be altered in any way. Deviation from this response form will result in disqualification. Optional features should be detailed with associated cost referenced below.

Document Camera (Cost Per Unit)

Digital document camera	\$
Installation/setup of document camera	\$
Extended Maintenance Agreement for document camera	\$
Professional Development Training on the use of the Document Camera *Note: Please state in what kind of format training this will be furnished.	\$
Base Price per school:	\$

*BID RETURN FORM FOR COMPONENT #4
PROFESSIONAL DEVELOPMENT*

VENDOR'S
NAME

TELEPHONE

CONTACT
PERSON

FAX NO.

ADDRESS

EMAIL

SIGNATURE OF/FOR VENDOR

DATE

Provide your bid total after considering all specifications herein. Prices shall remain valid for 1 year after the bid opening. This form may not be altered in any way. Deviation from this response form will result in disqualification. Optional features should be detailed with associated cost referenced below.

Professional Development on Proposed Interactive fixed and mobile whiteboard for up-to 20 participants:

Initial Instructor-led On-site Training	\$
Follow-up Instructor-led On-site Training	\$
Base Price:	\$