

RFQ COPY

TYPE NAME/ADDRESS HERE

Lee Hartman & Sons, Inc.

3 Davis Court

State of West Virginia Department of Administration **Purchasing Division** 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

# Request for Quotation

**ADDRESS CHANGES TO BE NOTED ABOVE** 

SHELLY MURRAY 304-558-8801

SCHOOL FOR THE DEAF & BLIND RECEIVING DEPARTMENT

**301 EAST MAIN STREET** ROMNEY, WV 26757-1894

Hurricane, WV 25526 304-822-4810 **V 304-**397-4100 F 304-397-4101 DATE PRINTED TERMS OF SALE SHIP VIA FOB FREIGHTTERMS Not 30 6 b 1) Just Trod 06/16/2010 BID OPENING DATE: 07/22/2010 OPENING TIME 01:30PM LINE QUANTITY UOP ITEM NUMBER · · · UNIT PRICE AMOUNT THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA SCHOOLS FOR THE DEAF AND BLIND, IS SOLICITING BIDS FOR VIDEO CONFERENCEING EQUIPMENT PER THE ATTACHED SPECIFICATIONS. RECEIVED TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO SHELLY MURRAY IN THE WEST VIRGINIA PURCHASING DIVISION 200 JUL 21 A 8: 23 VIA MAIL AT THE ADDRESS SHOWN AT THE TOP OF THIS RFQ, VIA FAX AT 304-558-4115, OR VIA EMAIL AT PUBLIFASING DIVISION SHELLY.L.MURRAY@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 07/08/2010 AT THE CLOSE OF BUSINESS. ALL TECHNICAL QUESTIONS RECEIVED, IF ANY, WILL BE ADDRESSED BY ADDENDUM AFTER THE DEADLINE. 0001 725-55-01-001 \$ 265,00000 TELEPHONE OR VIDEO CONFERENCE EQUIPMENT THE MODEL/BRAND/SPECIFICATIONS NAMED HEREIN ESTABLISH THE ACCEPTABLE LEVEL OF QUALITY ONLY AND ARE NOT INTENDED TO REFLECT A PREFERENCE OR FAVOR ANY PARTICULAR BRAND OR VENDOR. VENDORS WHO ARE BIDDING ALTERNATES SHOULD SO STATE AND INCLUDE PERTINENT LITERATURE AND SPECIFICATIONS. FAILURE TO PROVIDE INFORMATION FOR ANY ALITERNATES MAY BE GROUNDS FOR REJECTION OF THE BID. THE STATE RESERVES THE RIGHT TO WAIVE MINOR IRREGULARITIES IN BIDS OR SPECIFICATIONS IN ACCORDANCE WITH SECTION 148-1-4(F) OF THE WEST VIRGINIA LEGISLATIVE RULES AND REGULATIONS. SEE REVERSE SIDE FOR TEAMS AND CONDITIONS SIGNATURE 397-4100 7-19-2010

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# GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- 1. Awards will be made in the best interest of the State of West Virginia.
- 2. The State may accept or reject in part, or in whole, any bid.
- 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
- 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
- 5. Payment may only be made after the delivery and acceptance of goods or services.
- 6. Interest may be paid for late payment in accordance with the West Virginia Code.
- 7. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 10. The laws of the State of West Virginia and the Legislative Rules of the Purchasing Division shall govern the purchasing process.
- 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- 12. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
- 13. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
- 14. CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.
- 15. LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
- 16. ANTITRUST: In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

### **INSTRUCTIONS TO BIDDERS**

- 1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
- 2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- 3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
- 4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
- 5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



SIGNATURE

State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

3 Davis Court

Hurricane, WV 25526

**V** 304-397-4100 F 304-397-4101

# Request for Quotation

DBSM108117

addhess correspondence to attention of

SHELLY MURRAY 304-558-8801

SCHOOL FOR THE DEAF & BLIND

**301 EAST MAIN STREET** ROMNEY, WV 26757-1894 304-822-4810

RFQ COPY TYPE NAME/ADDRESS HERE RECEIVING DEPARTMENT Lee Hartman & Sons, Inc.

DATE PRINTED TERMS OF SALE SHIP VIA FOB FREIGHT TERMS 06/16/2010 Net 30 0=5+ PPD Lour Truck BID OPENING DATE: 07/22/2010 BID OPENING TIME 01:30PM LINE QUANTITY UOP ITEM NUMBER UNITPRICE AMOUNT EXHIBIT 5 WEST VIRGINIA CODE 21-11D-5 PROVIDES THAT: ANY SOLICITA-TION FOR A PUBLIC IMPROVEMENT CONSTRUCTION CONTRACT REQUIRES EACH VENDOR THAT SUBMITS A BID FOR THE WORK TO SUBMIT AT THE SAME TIME AN AFFIDAVIT OF COMPLIANCE WIT THE BID. THE ENCLOSED DRUG-FREE WORKPLACE AFFIDAVIT MUST BE SIGNED AND SUBMITTED WITH THE BID AS EVIDENCE OF THE VENDOR'S COMPLIANCE WITH THE PROVISIONS OF ARTI-CLE 1D, CHAPTER 21 OF THE WEST VIRGINIA CODE. FAILURE TO SUBMIT THE SIGNED DRUG-FREE WORKPLACE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF SUCH BID. NOTICE TO PROCEED: THIS CONTRACT IS TO BE PERFORMED WITHIN 60 CALENDAR DAYS AFTER THE NOTICE TO PROCEED UNLESS OTHERWISE SPECIFIED, THE FULLY IS RECEIVED. EXECUTED PURCHASE ORDER WILL BE CONSIDERED NOTICE TO PROCEED. CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE MATERIALS OR WORKMANSHIP SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HERE IN. WAGE RATES: THE CONTRACTOR OR SUBCONTRACTOR SHALL PAY THE HIGHER OF THE U.S. DEPARTMENT OF LABOR MINIMUM WAGE RATES AS ESTABLISHED FOR HAMPSHIRE, ROLANE, AND GRANT COUNTIES, PURSUANT TO WEST VIRGINIA CODE 21-5A, ET, SEQ. (PREVAILING WAGE RATES APPLY TO THIS PROJECT) ARBITRATION: ANY REFERENCES MADE TO ARBITRATION OR INTEREST FOR PAYMENTS DUE (EXCEPT FOR ANY INTEREST REQUIRED BY STATE LAWN CONTAINED IN THIS CONTRACT OR IN ANY AMERICAN INSTITUTE OF ARCHITECTS DOCUMENTS

397-4100 540 716361 Area

ADDRESS CHANGES TO BE NOTED ABOVE

7-19-2010

SEE REVERSE SIDE FOR TERMS AND CONDITIONS



State of West Virginia
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SCHOOL FOR THE DEAF & BLIND RECEIVING DEPARTMENT

301 EAST MAIN STREET ROMNEY, WV 26757-1894 304-822-4810

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ADDRESS CORRESPONDENCE TO A TENTION OF

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SCHOOL FOR THE DEAF & BLIND

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RFQ COPY

TYPE NAME/ADDRESS HERE

Lee Hartman & Sons, Inc. 3 Davis Court

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

# Request for Quotation

DBSM108117

SHELLY MURRAY

304-558-8801

SCHOOL FOR THE DEAF & BLIND RECEIVING DEPARTMENT

ADDRESS:GORRESPONDENCES (O/ATTENTION (OF

**301 EAST MAIN STREET** ROMNEY, WV

Hurricane, WV 25526 V 304-397-4100 F 304-397-4101 26757~1894 304-822-4810 DATE PRINTED TERMS OF SALE SHIP VIA FOB. FREIGHTTERMS 06/16/2010

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35 c	BUYER:		SHELLY MURRAY		
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# **DBSM108117**

# REQUEST FOR QUOTATION West Virginia Schools for the Deaf and Blind (WVSDB) Videoconferencing Equipment

# **PURPOSE:**

WVSDB is soliciting a Request for Quotation from qualified vendors to provide videoconferencing equipment to WVSDB and 5 other schools that are partners in this project.

# **SPECIFICATIONS:**

Background:

The West Virginia Schools for the Deaf and Blind want to install a state of the art videoconference system in order to participate in projects with our 5 partners across the state. This will allow our students to participate in numerous 21<sup>st</sup> century educational activities.

Scope of Work:

The majority of the videoconferencing equipment will be installed on the campus of WVSDB. Each of our partners will be receiving items 24, 25, 26, 28, 29, 31 and 32 on the list of equipment. This includes the Tandberg Edge 95 or equal, the Natural Presenter package, on-site installation/configuration and the 1 year warranty. These units will be installed at the following locations:

Petersburg Elementary School 333 Rig Street Petersburg, WV 26847

Spencer Elementary School 85 Clay Road Spencer, WV 25276

Geary Elementary Middle School 9538 Clay Road Left Hand, WV 25251

Spencer Middle School 102 Chapman Avenue Spencer, WV 25276

Walton Elementary/Middle School 90 School Drive Walton, WV 25286 This should include all materials, labor and delivery to specified locations, installation by a certified installer, and training.

**Equipment Specification:** 

The qualified vendor shall provide a quote for the following requested quantity, brand or equal to and equipment equal to.

Below is a listing of the requested items with specifications on the following pages.

Item #	QTY	Manufacturer	Equipment Description	Unit Cost	Extended Co
1	1	Tandberg	VCS Control Application As specified	13, 2900	) 3 290°
	1	Tandberg	VCS Control Application 1 yr manufacturer's warranty	15850	1585
3	1	Tandberg	VCS Expressway Application	14000 =	14000
3 4	1	Tandberg	VCS Expressway Application 1 yr manufacturer's warranty	15850	1585=
5	1	Tandberg	Content Server- 5 recording ports 2 live output	28,465	24,465
6	1	Tandberg	Content Server 1 yr manufacturer's warranty	2765	2761€
7	1	Tandberg	TMS Server Appliance	11,4000	154000
8	1	Tandberg	TMS Server Appliance 1 yr manufacturer's warranty	1,84000	184000
9	1	Tandberg	MCU-4205 12 Port Enterprise MCU	32,7400	3276000
10	1	Tandberg	MCU-4205 12 Port Enterprise 1 yr manufacturer's warranty	3,165-2	3.45=
11	1		On-site Installation & Configuration of MCU-4205	5,095	50959
12	1	Tandberg	3000 MXP Profile- Single 42" WXGA LCD w/ Precision HD camera"	18,455	18.455
13	1	Tandberg	Tandberg 3000 MXP Natural Presenter Package	132500	13250
14	1	Tandberg	Wheel base option for 3000 MXP Profile 42"	300 5	3000
15	1		Onsite Installation and Configuration for 3000 MXP	1865 54	18 ES "
16	1	Tandberg	3000 MXP Profile- 42" WXGA LCD & camera 1 yr man. warranty "	1325	(3250
17	1	Tandberg	HD 6000 MXP Integrator Package	19,1650	19,1250
18	1	Tandberg	HD 6000 MXP Integrator Package 1 yr manufacturers warranty	115000	115000
19	1	Tandberg	HD 6000 MXP Natural Presenters Package	132500	(3250
20	1		Onsite Installation for the Tandberg HD 6000 MXP	186500	186500
21	1	Tandberg	W.A.V.E. II camera with 20m cable	3485	3485
22	1	Tandberg	W.A.V.E. II camera 1 yr manufacturer's warranty	24050	24009
23	1	Tandberg	T4 Complete Program	427000	42705
24 *	5	Tandberg	Edge 95	8425-19	421250
25 *	5	Tandberg	Edge 95 Natural Presenters Package	1325 5	662500
26*	5	Tandberg	Edge 95 3 year manufacturers warranty	19305	G6500
27	İ		Misc. Cables for WVSDB equipment	40000	40000
28*			Misc. Cables for partner locations	15000	75000
29 *	5		Installation, Configuration and training of all equipment at partners	20.2	
			locations	124000	60500
30	2	Cisco	52" LCD TV and mounts Alteroide LG M 52012-8A	263===	5 160
31 *	5	Cisco	42" LCD TV A Heruste LG M42246-BA	121500	607500
32 *	5	Cisco	Equipment carts Alternate UFI- TR1000	86200	4325
33	2	Cisco	Equipment carts Alternate UFF TP 1000	86500	17305
34			Complete Installation, configuration and training at WVSDB	1131000	11,2100
			TOTAL \$ 265,000	<u>'</u>	

\* indicates items for partner locations

### Time Frame:

The scope of work shall be completed within 60 days after contract is awarded and notice to proceed is given.

# **Mandatory Qualifications:**

By submitting a bid, the vendor adheres to the following:

- 1. The vendor verifies that they have completed at least 3 projects of the same nature in the past five years.
- 2. The vendor must be certified on the proposed installed equipment
- 3. The vendor must be registered as a Vendor with the State of West Virginia prior to award.

# TANDBERG VCS Control Application Item #1

- Single box must support gatekeeping functionality using the industry standard of H323 and SIP proxy functionality using the industry standard of SIP
- System must be capable of interworking H.323 and SIP without user intervention
- · Flash memory and hard drive
- Must provide PBX functionality to end points such as call hold, call transfer and conferencing without the need for an embedded MCU in the endpoints
- Support for IP Version 4 support and support for IP Version 6 support
- H.323 v5 Annex O for DNS dialing support
- ITU-T H.323 v5 complaint and ITU-T H.225 v4 complaint
- Single box solution must support SIP based presence
- Solution must support clustering and up to 10,000 users in a cluster and up to 2,000 simultaneous calls in a cluster

# TANDBERG VCS Expressway Application Item #3

- Single box solution must support H.460 firewall traversal with multiplexed media technology without the use of external or add-on devices
- Single box solution must support SIP based firewall traversal technology without the use of external or add-on devices
- Solution must support clustering and up to 10,000 users in a cluster
- Solution must support clustering and up to 2,000 simultaneous calls in a cluster
- Must support ICE (interactive connectivity establishment)
- Support for Registration of traversal-enabled endpoints
- SIP based STUN Discover y and STUN Relay services

- H.460.18/.19 complaint and H.460.18 client proxy support
- Instant restart and boot under 90 seconds

# TANDBERG Content Server Item #5

- A single box solution must support a minimum of 5 simultaneous accesses
- The system must support RSS feeds and portable device downloads
- The system must support Flash, Windows Media Player, Quicktime, and Real
- The system must support native Multicast without the use of external equipment
- The system must integrate direction with Apple ITunes and Apple Podcast Producer
- The system must provide build in Streaming Server based on Windows Media Server
- The system must provide SIP support to allow SIP end points to record and stream

# TMS Server Appliance Item #7

- The management system must be able to manage both newer and legacy Tandberg and Polycom endpoints, along with the network infrastructure chosen. This includes MCUs, Firewall Traversal Solutions, Streaming systems, Call Control systems, Gatekeepers and others.
- The management software must provide diagnostic capabilities, billing capabilities as well as graphical reports
- The management software must provide H.350 support (import and export)
   Active Directory support
- The management software must provide Centrally-managed server phone books creation of one or multiple phone books with the ability to search unlimited entries
- The management software must provide Automatic directory import from gatekeeper, ILS and LDAP (single or multiple source)
- The management software must provide Automatic MCU, gateway and network selection
- The management software must provide Support for SIP enabled endpoints and dialing
- The management software must provide battery status on remote controls, diagnostic messages and solution suggestions system status, gatekeeper status, SNMP configuration, ISDN/IP configuration and information
- The management software must Manage calls made on multiple protocols (IP using H.323 and SIP, ISDN and mixed calls)
- The management software must provide for System Upgrades Able to upgrade either pre-scheduled or ad-hoc software updates to endpoints

# MCU-4205 12 Port Multisite Bridge Item #9

- There must be NO reduction of ports for features. This includes individual transcoding, encryption, and others. It must be conveyed that the capacity of the system IS the capacity of the system regardless of features being used
- The system must support standards based H.264 (no proprietary algorithms will be permitted) and standards based AAC for audio (no proprietary algorithms will be permitted)
- Content or data sharing channel must support 30 FPS
- The system must provide easy to use software clients
- Dimensions not to exceed 1 rack unit (U)

# TANDBERG 3000 MXP Profile-Single 42" Item #12

- The system must support standards based H.264 for high definition video (no proprietary algorithms will be permitted)
- The system must support standards based AAC for high definition audio (no proprietary algorithms will be permitted)
- Content or data sharing channel must support 30 FPS
- The codec must support 16 x 9 native (not stretched) at all bandwidths including 128k, 256k, 384k, 512k, and 768k.
- The system must support H.239 for data collaboration using H.323 (no proprietary algorithms will be permitted)
- The system must support BFCP for data collaboration using SIP (no proprietary algorithms will be permitted)
- The system must support H.460.18/19 multiplexed media for firewall traversal using H.323 (no proprietary algorithms will be permitted)
- The system must support STUN/ICE multiplexed media for firewall traversal using SIP (no proprietary algorithms will be permitted)
- The system must allow for real-time address books (not updated on a schedule)

# TANDBERG 3000 MXP Natural Presenters Package Item # 13

- Software option that allows two video streams at one time, allows students to view instructor and interpreter simultaneously
- Allows users to incorporate computers, laptops, document camera into the video presentation

# Wheel Base Option for 3000 MXP Profile 42" Item # 14

· Wheel base for equipment that allows the unit to be portable

# HD 6000 MXP Integrator Package Item #17

- 6000 MXP codec
- Precision HD camera
- Camera cable set (2m, 5m and 19.5m cable extension kit),
- 2 table microphones
- 2 trackers

# HD Integrator 6000 MXP Natural Presenter Package Item #19

- Software option that allows two video streams at one time, allows students to view instructor and interpreter simultaneously
- Allows users to incorporate computers, laptops, document camera into the video presentation

# W.A.V.E. II Camera Item #21

- 13CCD Color Camera PAL or NTSC
- 10 x zoom
- 1/4" CCD
- 96° total vertical field of view and 77° horizontal field of view
- 267° total horizontal field of view
- 460 (PAL) / 470 (NTSC) horizontal TV lines
- Min. illumination 2 Lux (F1.8)
- Auto or manual focus, brightness and white balance
- Far end camera control w/ 15 near and far-end camera pre-sets
- Voice-activated camera positioning
- Daisy chain support for up to 4 cameras
- VISCA camera support.

# T4 Complete Program Item # 23

- Complete training program for teachers.
- Includes 10 hours of training for classroom teachers on the following:
  - 4.5 hours of video conferencing basics includes basic operation of equipment, methods of engaging students, using administrative applications

- o 2.5 hours of how to best utilize peripheral equipment as part of the video conferencing experience
- o 1.5 hours of instruction on preparing lesson plans for delivery over video
- o 1.5 hours of review, wrap up and practice of previous sessions.

# Edge 95 Item #24

- The system must be able to connect up to 4 video sites and 3 audio sites with embedded Multi Site functionality
- The system must support up to 2 Mbps H.323/2 Mbps SIP/512 kbps H.3202/2.3 Mbps total MultiSite
- The system must be wireless capable
- The system must allow for viewers to view presentations and presenters simultaneously with Duo Video and H.239 Dual Stream
- The system must incorporate H.264 standard for superior video quality

# Edge 95 Natural Presenter Package Item #25

- Software option that allows two video streams at one time, allows students to view instructor and interpreter simultaneously
- Allows users to incorporate computers, laptops, document camera into the video presentation

# Misc. Cable Item #27 and 28

- RCA Female To BNC Male Adapter
- DVI To VGA Display Adapter
- 6ft Outlet Saver Power Extension Cord Black
- Audio Y-Adapter Cable
- 3.5mm Stereo Male To 3.5mm Stereo Female Y-Cable
- Panel-Mount VGA F-F Coupler Gender Changer
- Box of 20 Raceway White ¾" X1/2" X 8"
- Straight Through Modular In-line Coupler RJ45
- HDMI Gold Digital Video Cable 50ft
- 25ft 3.5mm M/M Stereo
- 25ft Grey Cat5e Patch Cable Molded Snag less
- 50ft Male to Male Premium SVGA VGA cable DB15M to DB15M
- Single Gang Surface Mount Box WHITE
- One-Piece Deep Low Voltage Junction Box w/Adhesive
- Essential 7 Outlet Surge Suppressor
- 6 Outlet Surge Suppressor 6x Receptacles 1 x power cable 16.4 ft

- VGA VIDEO SPLITTER/EXTENDER 2- 2 PORT HDMI SPLITTER
- Any other cable needed to connect, attach equipment quoted but not listed here

# Cisco 52" LCD TV monitors and mounts Item #30

- Commercial grade LCD monitor
- Must have 1080p resolution with HDMI input
- Must have a PC input-RGB/VGA 15 pin that supports 1080p resolution
- 3 year manufacturers warranty included

# Cisco 42" LCD TV monitors and mounts Item #31

- Commercial grade LCD monitor
- Must have 1080p resolution with HDMI input
- Must have a PC input-RGB/VGA 15 pin that supports 1080p resolution
- 3 year manufacturers warranty included

# Monitor Carts Item # 32 and 33

- Cart must be capable of holding securely the LCD monitor and all Videoconferencing equipment necessary to complete the unit.
- Cart must be capable of locking to secure equipment

# Installation, Configuration and Training Item # 34

- Price must be all inclusive to provide a turnkey project.
- All equipment will be installed at the locations listed
- Equipment will be tested for complete functionality
- Must be installed by certified installers
- Training will be given at all sites



# State of West Virginia DRUG FREE WORKPLACE CONFORMANCE AFFIDAVIT West Virginia Code §21-1D-5

STAT	EOF W	et Vieneum	
COUN	ITY OF	Hanasha	, TO-WIT:
,	Larry T. Co as follows:	o <b>x</b>	, after being first duly sworn, depose and
1.	I am an em	nployee of	Lee Hartman & Sons, Inc. ; and, (Company Name)
2.	I do hereby	attest that	Lee Hartman & Sons, Inc. (Company Name)
			drug free workplace policy and that such ith <b>West Virginia Code</b> §21-1D-5.
The a	bove statem	ents are swor	n to under the penalty of perjury.
			Lee Hartman & Sons, Inc. (Company Name)
			By: Darry Y. Cx
			Title: Area Manager  Date:
Taker	, subscribed	d and sworn to	before me this 19 day of July 2010
BY	SUS SUS	EPURSEAL TTARY PUBLIC E OF WEST VIRGINIA AN L., SHEPARD 218 SIXTH AVE. P. O. BOX 418 ALBANS, WV 26177 Sicin expires July 11, 2013	Serson Z The pull (Notary Public)

THIS AFFIDAVIT MUST BE SUBMITTED WITH THE BID IN ORDER TO COMPLY WITH WV CODE PROVISIONS. FAILURE TO INCLUDE THE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF THE BID.

Rev March 2009

AGENCY\_\_ RFQ/RFP#\_

# **BID BOND PREPARATION INSTRUCTIONS**

(4)	WILLOW A TO THE STATE OF THE ST	TA VITORY		Bid Bond	ITS, That we, the undersigned,
(A)	WV State Agency (Stated on Page 1 "Spending Unit")		of		(E)
	Request for Quotation Number (upper	as Principal, and			(G) .
	right corner of page #1)	as i illicipal, and	2 corner		
(C)	Your Company Name	of the State of	, a corpor	with ito neinci	d and existing under the laws pal office in the City of
(C)	City, Location of your Company		ac Suref	wiii iis piiioi u are beld and	i firmly bound unto The State
(D)	State, Location of your Company	of West Virginia, as	Oblines in the	nenal aum of	(K)
(E)	Surety Corporate Name	(¢ (f)	Oongoe, in the p	soument of wh	ich, well and truly to be made,
(F)		(\$ (L)		rayment of wh	administrators, executors,
(G)	City, Location of Surety	* *	•	es, our neas,	administrators, executors,
(H)	State, Location of Surety	successors and assig		abligation is	such that whereas the Principal
(I)	State of Surety Incorporation				partment of Administration
(J)	City of Surety Incorporation	nas submitted to the	rurchasing sect	note and made	a part hereof to enter into a
(K)	Minimum amount of acceptable bid			acto and made	a part neteor to enter into a
	bond is 5% of total bid. You may state	contract in writing for	or	(M)	
	"5% of bid" or a specific amount on			IVI	
<i>(</i> * \	this line in words.				
(L)	Amount of bond in figures	NOW THE	n teron re	<del> </del>	
(M)	Brief Description of scope of work				
(N)	Day of the month		bid shall be reje		2tt1 -111
(O)	Month				Principal shall enter into a
(P)	Year				ached hereto and shall furnish
(Q)	Name of Corporation	any other bonds and	insurance requi	rea by the bla	or proposal, and shall in all
(R)	Raised Corporate Seal of Principal	other respects perior	m me agreemen	t created by the	e acceptance of said bid then is obligation shall remain in ful
(S)	Signature of President or Vice				reed that the liability of the
(T)	President				
(T)	Title of person signing				event, exceed the penal
(U)	Raised Corporate Seal of Surety	amount of this oblig			mulaton and nonconthat the
(V)	Corporate Name of Surety				pulates and agrees that the
(W)	Signature of Attorney in Fact of the				no way impaired or affected by
MORE.	Surety Delta				ay accept such bid: and said
NOTE:	Dated, Power of Attorney with Raised	Surety does hereby v			
	Surety Seal must accompany this bid	IN WITNE	SS WHEREOF,	Principal and	Surety have hereunto set their
	bond.	nands and seals, and	such of them as	are corporation	ons have caused their corporate
					signed by their proper officers,
		this <u>(N)</u> da	ıy 01	<u>(0)</u> , 20_	<u>(P)</u>
		Principal Corporate	San1		<b>(O)</b>
		Finicipal Corporate	SCA1	<del> · · ·</del>	(Name of Principal)
		m	`	ъ.	- /
		(R	•	Ву	(S)
					(Must be President or
					Vice President)
				-	<u>(T)</u>
		<b>~</b>			Title
		(U			A175
		Surety Corporate Se	aı		<u> </u>
					(Name of Surety)
					OND.
				<del></del>	(W)
					Attorney-in-Fact

Attorney must be attached.

IMPORTANT — Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised Corporate Seals must be affixed and a Power of

	Agency REQ.P.O#
BiE	D BOND
KNOW ALL MEN BY THESE PRESENTS, That we, the	undersigned,
	, as Principal, and
	a corporation organized and existing under the laws of the State of
	as Surety, are held and firmly bound unto the State
of West Virginia, as Obligee, in the penal sum of	(\$) for the payment of which,
well and truly to be made, we jointly and severally bind ourselves	, our heirs, administrators, executors, successors and assigns.
_	eas the Principal has submitted to the Purchasing Section of the hereto and made a part hereof, to enter into a contract in writing for
hereto and shall furnish any other bonds and insurance required agreement created by the acceptance of said bid, then this obligation	ation shall be null and void, otherwise this obligation shall remain in full
exceed the penal amount of this obligation as herein stated.	d agrees that the obligations of said Surety and its bond shall be in no
IN WITNESS WHEREOF, Principal and Surety have her	reunto set their hands and seats, and such of them as are corporations
have caused their corporate seals to be affixed hereunto and the	
day of, 20	
marial Communication Const.	
Principal Corporate Seal	(Name of Principal)
	Du
	By(Must be President or
	Vice President)
	(Title)
Surety Corporate Seal	(Name of Surety)
	Attornev-in-Fact

IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised corporate seals must be affixed, a power of attorney must be attached.

RFQ No. DESM 108117

# STATE OF WEST VIRGINIA Purchasing Division

# **PURCHASING AFFIDAVIT**

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

# **DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (**West Virginia Code** §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

### WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: Lee Hartman & Sons, Inc.	
Authorized Signature: Dany Tex	Date: July 19, 2010
State of West Veryenia	
County of Kanacha, to-wit:	
Taken, subscribed, and sworn to before me this $\frac{14}{3}$ day of $\frac{1}{3}$	<u>ly</u> , 20 1b.
My Commission expires	<u>13.</u>
AFTIX SEAL HORE NOTARY PUBLIC STATE OF WEST VIRGINIA SUSAN L. SHEPARD	PUBLIC Susun Khepur
218 SIXTH AVE. P. O. BOX 418 ST. ALBANS, WV 25177 My commission empires July 11, 2013	

Agency WVSDB REQ.P.O#\_DBSM108117

# BID BOND

				ned LEE HARTMAN & SONS, INC.
of .	ROANOKE		RGINIA	, as Principal, and <u>CINCINNATI INSURANCE</u> COMPA
of_	FAIRFIELD	OHIO		tion organized and existing under the laws of the State of $\overline{0 \mathrm{HI}}$ 0
		al office in the City of		, as Surety, are held and firmly bound unto the State
				(\$ 5% OF BID ) for the payment of which,
well and truly	to be made, we join	tly and severally bind	t ourselves, our hein	s, administrators, executors, successors and assigns.
		•		rincipal has submitted to the Purchasing Section of the
Department o	f Administration a ce	ertain bid or proposa	, attached hereto an	d made a part hereof, to enter into a contract in writing for
VIDEO	CONFERENCING	G EQUIPMENT I	OR WV SCHOOL	LS FOR DEAF AND BLIND
			,	
		<del></del>		
	VTHEREFORE,			
(a) (b)	If said bid shall be re	ejected, or ecented and the Prin	ncinal shall enter into	a contract in accordance with the bid or proposal attached
hereto and sh	all furnish anv other	bonds and insurance	e required by the bid	i or proposal, and shall in all other respects perform the
agreement cre	eated by the accepts	ance of said bid, the	n this obligation shall d that the liability of t	l be null and vold, otherwise this obligation shall remain in full the Surety for any and all claims hereunder shall, in no event,
exceed the pe	enal amount of this o	bilgation as herein s	tated.	and during the any and an ordina holouride star, it no event,
The	Surety, for the Value	received, hereby st	ipulates and agrees I within which the Ohi	that the obligations of said Surety and its bond shall be in no ligee may accept such bid, and said Surety does hereby
	of any such extensio		MICHITANION NA COL	ages may accept each Ma, and ead addedy acce hereby
,	•	_		
		•	=	t their hands and seals, and such of them as are corporations
				nts to be signed by their proper officers, this
12TH day	01 7077	, 20 10	<u>-</u> •	
				TEE HADDWAN C CONC. THE
Principal Corp	oorate Seal			LEE HARTMAN & SONS, INC. (Name of Princh(sal)
				10000
				By (Must be President or
				Vice President)
				Vresident
				(Title)
Surety Corpor	rate Seal			CINCINNATI INSURANCE COMPANY
				(Nome of Europe)
				Clelia W. Long/ Attorney-in-Fact
				( lechin ( W. Lana)
				Attorney-in-Fact
IMPOPTANT	_ Surety execution	s hands must be lie	ensad in West Vive	inia to transact surety insurance, Raised corporate seals
must be affix	ed, a power of atto	rney must be attac	hed.	hum ve amount amoth manistrat tellaca cotholista sasis

### THE CINCINNATI INSURANCE COMPANY

Fairfield, Ohio

### POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That THE CINCINNATI INSURANCE COMPANY, a corporation organized under the laws of the State of Ohio, and having its principal office in the City of Fairfield, Ohio, does hereby constitute and appoint E. Gerald Stump; William E. Haynie; Mark B. Stump; Cecelia W. Long; Paula B. Gibson; Samuel A. Lowman, Jr.; Barbara Hall; Linda St. Clair; Robert Gibson; Mike Repass; Lisa Bain; Sandra Short; Timothy Merry and/or Cindy Walters each in their separate capacity

of Salem and Midlothian, Virginia

its true and lawful Attorney(s)-in-Fact to sign, execute, seal

and deliver on its behalf as Surety, and as its act and deed, any and all bonds, policies, undertakings, or other like instruments, as follows:

Any such obligations in the United States, up to Twenty Million and No/100 Dollars (\$20,000,000.00).

This appointment is made under and by authority of the following resolution passed by the Board of Directors of said Company at a meeting held in the principal office of the Company, a quorum being present and voting, on the 6th day of December, 1958, which resolution is still in effect:

"RESOLVED, that the President or any Vice President be hereby authorized, and empowered to appoint Attorneys-in-Fact of the Company to execute any and all bonds, policies, undertakings, or other like instruments on behalf of the Corporation, and may authorize any officer or any such Attorney-in-Fact to affix the corporate seal; and may with or without cause modify or revoke any such appointment or authority. Any such writings so executed by such Attorneys-in-Fact shall be binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company."

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company at a meeting duly called and held on the 7th day of December, 1973.

"RESOLVED, that the signature of the President or a Vice President and the seal of the Company may be affixed by facsimile on any power of attorney granted, and the signature of the Secretary or Assistant Secretary and the seal of the Company may be affixed by facsimile to any certificate of any such power and any such power of certificate bearing such facsimile signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certified by certificate so executed and sealed shall, with respect to any bond or undertaking to which it is attached, continue to be valid and binding on the Company."

IN WITNESS WHEREOF, THE CINCINNATI INSURANCE COMPANY has caused these presents to be sealed with its corporate seal, duly attested by its Vice President this 10th day of October, 2008.

STATE OF OHIO COUNTY OF BUTLER

On this 10th day of October, 2008, before me came the above-named Vice President of THE CINCINNATI INSURANCE COMPANY, to me personally known to be the officer described herein, and acknowledged that the seal affixed to the preceding instrument is the corporate seal of said Company and the corporate seal and the signature of the officer were duly affixed and subscribed to said instrument by the authority and direction of said corporation.

) ss:

MARK J. HÜLLER, Attorney at Law NOTARY PUBLIC - STATE OF OHIO My commission has no expiration

date, Section 147.03 O.R.C.

I, the undersigned Secretary or Assistant Secretary of THE CINCINNATI INSURANCE COMPANY, hereby certify that the above is a true and correct copy of the Original Power of Attorney issued by said Company, and do hereby further certify that the said Power of Attorney is still in full force and effect.

GIVEN under my hand and seal of said Company at Fairfield, Ohio.

this

day of July, 2010

Briggy J

BN-1005 (10/08)



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
7/9/2010

	CENTIFICATE OF LI	ADILITI INSURANCE	7/9/2010
1 '	-2327 FAX: (540)389-5901 & Haynie Insurance Agency, Inc	THIS CERTIFICATE IS ISSUED AS A MATTER OF ONLY AND CONFERS NO RIGHTS UPON THE HOLDER. THIS CERTIFICATE DOES NOT AMENIALTER THE COVERAGE AFFORDED BY THE POL	CERTIFICATE D, EXTEND OR
P.O. Box 3205			
Salem	VA 24153	INSURERS AFFORDING COVERAGE	NAIC #
INSURED		INSURER A: Cincinnati Insurance Company	10677
Lee Hartman & Sons, Inc.		INSURER B: Accident Fund National Ins Co	12305
P.O. Box 13365		INSURER C:	
		INSURER D:	
Roanoke	VA 24033-3365	INSURER E:	
COVERAGES			
THE POLICIES OF INSUR	RANCE LISTED BELOW HAVE BEEN ISSUED TO THE II	NSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NO	TWITHSTANDING

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMI	rs	
	GE X	NERAL LIABILITY  COMMERCIAL GENERAL LIABILITY				EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	1,000,000
A		CLAIMS MADE X OCCUR	CPP0834074	10/1/2009	10/1/2010	MED EXP (Any one person)	\$	10,000
						PERSONAL & ADV INJURY	\$	1,000,000
						GENERAL AGGREGATE	\$	2,000,000
		N'L AGGREGATE LIMIT APPLIES PER: POLICY PRO- JECT LOC	;			PRODUCTS - COMP/OP AGG	\$	2,000,000
	AU X	TOMOBILE LIABILITY ANY AUTO				COMBINED SINGLE LIMIT (Ea accident)	\$	1,000,000
A		ALL OWNED AUTOS SCHEDULED AUTOS	CPP0834074	10/1/2009	10/1/2010	BODILY INJURY (Per person)	\$	
	X	HIRED AUTOS NON-OWNED AUTOS				BODILY INJURY (Per accident)	\$	
	X	Hired Car Physical Damage-\$50,000				PROPERTY DAMAGE (Per accident)	\$	
	GA	RAGE LIABILITY				AUTO ONLY - EA ACCIDENT	\$	
		ANY AUTO				OTHER THAN EA ACC AUTO ONLY: AGG		
	EXC	CESS / UMBRELLA LIABILITY				EACH OCCURRENCE	\$	3,000,000
	x	OCCUR CLAIMS MADE				AGGREGATE	\$	3,000,000
		7					\$	
A		DEDUCTIBLE	CPP0834074	10/1/2009	10/1/2010		\$	
		RETENTION \$					\$	
В		S COMPENSATION LOYERS' LIABILITY Y / N			ļ	X WC STATU- OTH- TORY LIMITS ER		
	ANY PRO	PRIETOR/PARTNER/EXECUTIVE N				E.L. EACH ACCIDENT	\$	500,000
	(Mandator	ry in NH) cribe under	WCV6049063	10/1/2009	10/1/2010	E.L. DISEASE - EA EMPLOYEE	\$	500,000
-	SPECIAL	PROVISIONS below				E.L. DISEASE - POLICY LIMIT	\$	500,000
A	OTHER I:	nstallation Floater	CPP0834074	10/1/2009	10/1/2010	Limit		\$100,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

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STATE OF WEST VIRGINIA DEPT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON ST., EAST PO BOX 50130 CHARLESTON, WV 25305-0130

# CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 15 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE Cecelia Long/CECELI

Carlie 3	
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# LCD Widescreen Full HD Capable Monitor

FULL HD 1080p RESOLUTION 1920 x 1080 WUXGA



3 POWER SAVING LEVELS

CONTRAST RATIO 1,600:1, 800:1 (DCR)

HIGH BRIGHTNESS  $500 \text{ cd/m}^2$ 

 $\begin{array}{c} \text{SPLIT ZOOM (self video wall)} \\ \text{Up to 4} \times \text{4 matrix - adjusts for bezel width} \end{array}$ 

LIG EXCLUSIVE XD ENGINE

TEMPERATURE AND LAMP FAULT SENSOR

HDMI™/DVI WITH HDCP

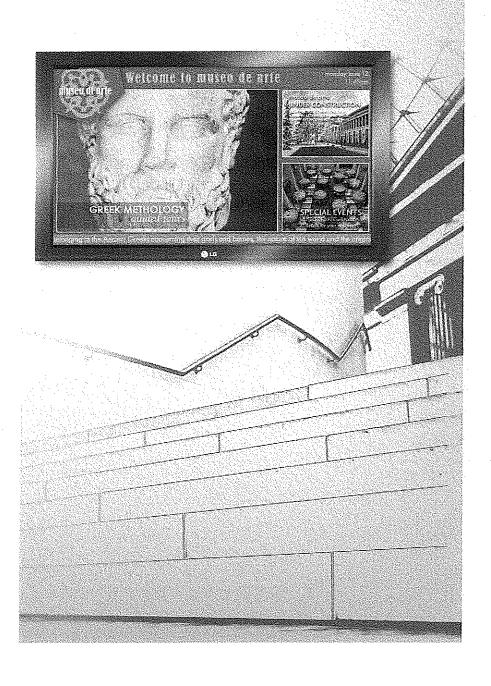
RS-232C CONTROL

CABINET COLOR Black



ROHS COMPLIANT

3-YEAR LIMITED WARRANTY (parts/labor)

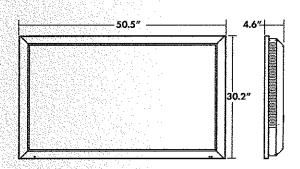


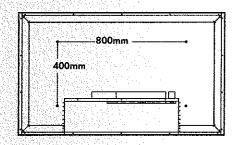




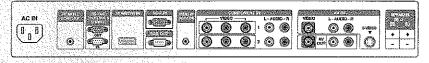
M5201 C-BA

52" CLASS (52.0" DIAGONAL)





### Rear Jack Pack Panel



www.LGcommercial.com



**Customer Service:** 888.865.3026

Contact your LG regional sales representative: Vertical Markets: 800.897.8788 Channel: 800.897.8871 Hospitality: 800.228.1236 E-mail: LGcommercial@lge.com

SPEC\_M5201C-BA\_031011\_PR

LG Electronics U.S.A., Inc.
to electionics 0.3.A., inc.
Business Solutions Division
2000 Millbrook Drive
2000 Millipidok Drive

All screen images are simulated. Dimensions and weights are approximate. Design, specifications, and features subject to change without notice. HDTV monitors require an optional set-op-box to receive high-definition broadcast.

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XD Engine is a registered trademark of LG Electronics USA, Inc. VESA is a registered trademark of Video Electronics Standards Association.

All other product and brand names are trademarks or registered trademarks of their respective companies.



SPECIFICATIONS	
LCD Panel Type	52"
Display Area	52.0°
Aspect Ratio	16:9
Native Resolution	1920 x 1080 (full HD)
Pixels (H x V x 3)	6,220,800
Brightness	500 cd/m <sup>2</sup>
Contrast Ratio	800:1 (1,600:1 DCR)
Viewing Angle (H x V)	178" x 178"
SIPS	Yes
Color Depth	1.07 Billion
Response Time	9ms(G to G)
Surface Treatment	Hard Coating (3H); Anti-glare
MTBF	50,000 Hr., Portrait & Landscape
VIDEO	1000 1000 0 (0)
Max Input Resolution D-Sub DVI-D	1920 x 1080 @ 60Hz 1920 x 1080 @ 60Hz
H-Scanning Frequency D-Sub	30 ~ 83 kHz
DVID	30 ~ 83 kHz
V-Scanning Frequency	56 - 85 Hz
Pixel Frequency	Max. 148.5 MHz
Sync Compatability	Separate / Composite / Digital
Video Input	RGB Analog / Digital
EZ Video	Dynamic / Standard / Mild / User 1 / User 2
ACC	Warm / Normal / Cool
REAR INPUTS	
Component Video	2 (480i/p, 720p, 1080i)
PC Input via 15-Pin Sub "D"	1
Composite Video Input/Output	1/1
Audio Inputs	3 Plus PC Sound
HDTV Formats	720p / 1080i
PC Formats	Auto Scaling to Full HD
HDMI/DVI with HDCP	Yes
RS-232C Input/Output	1 / 1 Female-to-Female Crossed Type
S-Video	1
Discrete IR Input	Yes
External Speaker Out	Yes
AUDIO	
Surround MAX	Yes
Auto Volume Limiter	Yes
Audio Power	20W (10W x 2)
Balance	Yes
EZ Audio	Flat / Music / Movie / Sports / User
SPECIAL FEATURES	
Advanced Picture In Picture	No
New Temperature Sensor	Yes
New Lamp Fault Sensor	Yes
Cooling FAN	Yes
New Split Zoom	Yes, supports natural mode
Image Zoom	No
Source Selection	Digital(HDMI/DVI) / Analog (RG8)/ Component 1 & 2 /AV
B-1-1-1-1	
Brightness/Contrast	Yes
Calas	Niamai Cast Warm ( Usas Castal In IC IN)
Color	Normal, Cool, Warm / User Control (R/G/B)
Position	H/V
Position Tracking	H / V Auto / Clock / Phase
Position	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/
Position Tracking Set-up Language	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese
Position Tracking Setup Language ISM Method	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Oppanese/Chinese Normal/White Wosh/Orbiter/Inversion/Orb.+Inv.
Position Tracking Set-up Language	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese
Position Tracking Set-up Language ISM Method XD Engine	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Narmal/White Wosh/Orbiter/Inversion/Orb.±Inv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level
Position Tracking Set-up Language ISM Method XD Engine Advanced Time	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Narmal/White Wash/Orbiter/Inversion/Orb.*(Inv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time
Position Tracking Set-up Language ISM Method XD Engine Advanced Time Special Mute	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Narmal/White Wosh/Orbiter/Inversion/Orb.±Inv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level
Position Tracking Set-up Language ISM Method XD Engine Advanced Time Special Mute Sleep Timer	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Narmal/Miñe Wosh/Orbiter/Inversion/Orb.*finv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD Lock Yes Yes
Position Tracking Setup Language ISM Method XD Engine Advanced Time Special Mute Steep Timer Auto Power/Source Memory	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Normal/Mhile Wosh/Orbite/Inversion/Orb.*(nv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD lock Yes Yes Yes
Position Tracking Set-up Language ISM Method XD Engine Advanced Time Special Mute Steep Timer Auto Power/Source Memory Child lock	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Jopanese/Chinese Narmal/White Wash/Orbiter/Inversion/Orb.+Inv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Olf time / On time Auto Adjust, OSD Lock Yes Yes Yes Yes
Position Tracking Set-up Language ISM Method XD Engine Advanced Time Special Mute Sleep Timer Auto Power/Source Memory Child Lock Power Indicator	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Normal/Mhile Wosh/Orbite/Inversion/Orb.*(nv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD lock Yes Yes Yes
Position Tracking Setup Language ISM Method XD Engine Advanced Time Special Mute Steep Timer Auto Power/Source Memory Child Lock Power Indicator CABINET	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Normal/Milite Wosh/Orbiter/Inversion/Orb:*Inv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD tock Yes Yes Yes Yes Yes On / Off
Position Tracking Set-up Language ISM Method XD Engine Advanced Time Special Mute Sleep Timer Auto Power/Source Memory Child Lock Power Indicator CABINET Color	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Narmal/White Wash/Orbiter/Inversion/Orb.+finx. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD tock Yes Yes Yes On / Off
Position Tracking Set-up Language ISM Method XD Engine Advanced Time Special Mute Sleep Timer Auto Power/Source Memory Child Lock Power Indicator CABINET Color Bezel Width	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Narmal/White Wosh/Orbiter/Inversion/Orb.+Inv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD lock Yes Yes Yes Yes On / Off  Black 63.6mm
Position Tracking Set-up Language ISM Method XD Engine Advanced Time Special Mute Sleep Timer Auto Power/Source Memory Child Lock Power Indicator CABINET Color Bezzel Width Monitor Dimension (W×H×D)	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Normal/Milite Wosh/Orbiter/Inversion/Orb.*(nv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD tock Yes Yes Yes Yes On / Off Black 63.6mm 50.5*x30.2" x 4.6*
Position Tracking Set-up Language ISM Method XD Engine Advanced Time Special Mute Sleep Timer Auto Power/Source Memory Child Lock Power Indicator CABINET Color Bezel Width Monitor Dimension (WxHxD) Weight	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Narmal/White Wash/Orbiter/Inversion/Orb.+finx. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD tock Yes Yes Yes On / Off Black 63.6mm 50.5° x 30.2" x 4.6" 93.4 lbs.
Position Tracking Set-up Language ISM Method XD Engine Advanced Time Special Muta Steep Timer Auto Power/Source Memory Child Lock Power Indicator CABINET Color Bezel Width Monitor Dimension (Wx Hx D) Weight Carton Dimensions (Wx Hx D)	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Jopanese/Chinese Narnal/White Wash/Orbiter/Inversion/Orb.+Inv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Olf time / On time Auto Adjust, OSD Lock Yes Yes Yes On / Off  Black 63.6mm 50.5**x30.2**x4.6** 93.4 lbs. 55.8**x35.4**x15.1**
Position Tracking Set-up Language ISM Method XD Engine Advanced Time Special Mute Sleep Timer Auto Power/Source Memory Child Lock Power Indicator CABINET Color Bezzel Width Monitor Dimension (W×H×D) Weight Carton Dimensions (W×H×D) Packed Weight	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Normal/Milite Wosh/Orbiter/Inversion/Orb.*(nv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD tock Yes Yes Yes Yes On / Off Black 63.6mm 50.5*x30.2"x4.6* 93.4 lbs. 55.8*x35.4*x15.1* 108.6 lbs.
Position Tracking Tracking Set-up Language ISM Method XD Engine Advanced Time Special Mute Sleep Timer Auto Power/Source Memory Child Lock Power Indicator CABINET Cokor Bezel Width Monitor Dimension (W x H x D) Weight Carton Dimensions (W x H x D) Pocked Weight VESA'M Standard Mount Interface	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Narmal/While Wash/Orbiter/Inversion/Orb.+Inv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD tock Yes Yes Yes On / Off  Black 63.6mm 50.5° x 30.2° x 4.6° 93.4 lbs. 55.8° x 35.4° x 15.1° 108.6 lbs. 800mm x 400mm (APWX60)
Position Tracking Set-up Language iSM Method XD Engine Advanced Time Special Mute Steep Timer Auto Power/Source Memory Child lock Power Indicator CABINET Color Bezel Width Monitor Dimension (W x H x D) Weight Carton Dimensions (W x H x D) Packed Weight VESA** Standard Mount Interface Accessory Stand & Speakers	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Normal/Milite Wosh/Orbiter/Inversion/Orb.*(nv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD tock Yes Yes Yes Yes On / Off Black 63.6mm 50.5*x30.2"x4.6* 93.4 lbs. 55.8*x35.4*x15.1* 108.6 lbs.
Position Tracking Set-up Language ISM Method XD Engine Advanced Time Special Mute Steep Timer Auto Power/Source Memory Child Lock Power Indicator CABINET Color Bezel Width Monitor Dimension (W x H x D) Weight Carton Dimensions (W x H x D) Packed Weight VESA** Standard Mount Interface Accessory Stand & Speakers POWER	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Jopanese/Chinese Narmal/White Wash/Orbiter/Inversion/Orb.+Inv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Olf time / On time Auto Adjust, OSD Lock Yes Yes Yes On / Off  Black 63.6mm 50.5**x 30.2**x 4.6** 93.4 lbs. 55.8**x 35.4**x 15.1** 108.6 lbs. 800mm x 400mm (APWX50) None available
Position Tracking Setup Language ISM Method XD Engine Advanced Time Special Mute Special Mute Auto Power/Source Memory Child Lock Power Indicator CABINET Color Bezel Width Monitor Dimension (W x H x D) Weight Carton Dimensions (W x H x D) Weight VESA'® Standard Mount Interface Accessory Stand & Speakers Power Saving	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Narmal/While Wash/Orbiter/Inversion/Orb.+Inv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD lock Yes Yes Yes On / Off  Black 63.6mm 50.5* x 30.2" x 4.6" 93.4 lbs. 55.8* x 35.4" x 15.1" 108.6 lbs. 800mm x 400mm (APWX60) None available Yes, Level1 / Level2/Level3
Position Tracking Set-up Language ISM Method XD Engine Advanced Time Special Mute Sleep Timer Auto Power/Source Memory Child Lock Power Indicator CABINET Color Bezel Width Monitor Dimension (W×H×D) Weight Carton Dimensions (W×H×D) Pocked Weight VESA** Standard Mount Interface Accessory Stand & Speakers POWER Power Saving Power Saving Power Saving Power Saving Power Saving Power Saving Power Supply	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Narmal/While Wash/Orbiter/Inversion/Orb.+Inv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD tock Yes Yes Yes On / Off  Black 63.6mm 50.5" x 30.2" x 4.6" 93.4 lbs. 55.8" x 35.4" x 15.1" 1006.6 ibs. 800mm x 400mm (APWX60) None available  Yes, Levell / Level 2 / Level 3 90 ~ 264V / AC (47 ~ 63Hz)
Position Tracking Set-up Language ISM Method XD Engine Advanced Time Special Mute Steep Timer Auto Power/Source Memory Child Lock Power Indicator CABINET Color Bezel Width Monitor Dimension (W x H x D) Weight Carton Dimensions (W x H x D) Packed Weight VESA** Standard Mount Interface Accessory Stand & Speakers POWER Power Saving Power Saving Power Supply Power Type	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Namal/White Wash/Orbiter/Inversion/Orb.+Inv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Olf time / On time Auto Adjust, OSD Lock Yes Yes Yes On / Off  Black 63.6mm 50.5* x 30.2" x 4.6" 93.4 lbs. 55.8" x 35.4" x 15.1" 108.6 flbs. 800mm x 400mm (APWX60) None available Yes, Level1 / Level2 / Level3 90 ~ 264V / AC (47 ~ 63Hz) Builtin Power
Position Tracking Setup Language ISM Method XD Engine Advanced Time Special Mute Special Mute Special Mute Auto Power/Source Memory Child Lock Power Indicator CABINET Color Bezel Width Monitor Dimension (W x H x D) Weight Carton Dimensions (W x H x D) Weight VESA'® Standard Mount Interface Accessory Stand & Speakers POWER Power Saving Power Supply Power Supply Power Type Power Type Power Switch Type	H / V  Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Narmal/While Wosh/Orbiter/Inversion/Orb.*Inv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD Lock Yes Yes Yes On / Off  Black 63.6mm 50.5**x 30.2**x 4.6** 93.4 lbs. 55.8**x 35.4**x 15.1** 108.6 fbs. 800mm x 400mm (AP-WX60) None available Yes, Level1 / Level2 / Level3 90 ~ 264 V / AC (47 ~ 63Hz) Bullich Power Tact Switch
Position Tracking Set-up Language ISM Method XD Engine Advanced Time Special Mute Sleep Timer Auto Power/Source Memory Child Lock Power Indicator CABINET Color Bezel Width Monitor Dimension (W×H×D) Weight Carton Dimensions (W×H×D) Pocked Weight VESA <sup>™</sup> Shondard Mount Interface Accessory Stand & Speakers POWER Power Saving Power Saving Power Supply Power Sype Power Switch Type Power Switch Type Power Swing Normal	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Narmal/White Wash/Orbiter/Inversion/Orb.+Inv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD tock Yes Yes Yes On / Off  Black 63.6mm 50.5" x 30.2" x 4.6" 93.4 lbs. 55.8" x 35.4" x 15.1" 108.6 lbs. 800mm x 400mm (APWX60) None available Yes, Level1/Level2/Level3 90 ~ 264V / AC (47 ~ 63Hz) Builtin Power Tact Switch 400W
Position Tracking Setup Language ISM Method XD Engine Advanced Time Special Mute Special Mute Steep Timer Auto Power/Source Memory Child Lock Power Indicator CABINET Color Bezel Width Monitor Dimension (WxHxD) Weight Carron Dimensions (WxHxD) Packed Weight VESA <sup>TM</sup> Standard Mount Interface Accessory Stand & Speakers POWER Power Saving	H / V  Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Normal/While Wosh/Orbiter/Inversion/Orb.*Inv. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD lock Yes Yes Yes On / Off  Black 63.6mm 50.5*x30.2"x4.6" 93.4 lbs. 55.8"x35.4"x15.1" 108.6 lbs. 800mm x400mm (APWX60) None available Yes, Level1/Level2/Level3 90 ~ 264V / AC (47 ~ 63Hz) Builtin Power Tact Switch 400W 1W (RCB) / 2W (HDMI/DVI)
Position Tracking Tracking Tracking Set-up Language ISM Method XD Engine Advanced Time Special Mute Sleep Timer Auto Power/Source Memory Child Lock Power Indicator CABINET Color Bezel Width Monitor Dimension (WxHxD) Weight Carton Dimensions (WxHxD) Weight VESA <sup>TM</sup> Standard Mount Interface Accessory Stand & Speakers Power Saving	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Narmal/White Wash/Orbiter/Inversion/Orb.+finx. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD tock Yes Yes Yes On / Off  Black 63.6mm 50.5" x 30.2" x 4.6" 93.4 lbs. 55.8" x 35.4" x 15.1" 1006.6 lbs. 800mm x 400mm (APWX60) None available Yes, Level1/Level2/Level3 90 ~ 264V / AC (47 ~ 63Hz) Builtin Power Tact Switch 400W
Position Tracking Set-up Language ISM Method XD Engine Advanced Time Special Mute Sleep Timer Auto Power/Source Memory Child Lock Power Indicator CABINET Color Bezel Width Monitor Dimension (W×H×D) Weight Carton Dimensions (W×H×D) Pocked Weight VESA™ Shondard Mount Interface Accessory Stand & Speakers POWER Power Saving	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Narmal/White Wash/Orbiter/Inversion/Orb.+finx. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD tock Yes Yes Yes On / Off  Black 63.6mm 50.5* x 30.2* x 4.6* 93.4 lbs. 55.8* x 35.4* x 15.1* 108.6 lbs. 800mm x 400mm (APWX60) None available Yes, Level1/Level2/Level3 90 ~ 264V / AC (47 ~ 63Hz) Builkin Power Tact Switch 400W IW (RGB) / 2W (HDMI/DVI) IW
Position Tracking Setup Language ISM Method XD Engine Advanced Time Special Mute Special Mute Special Mute Auto Power/Source Memory Child Lock Power Indicator CABINET Color Bezel Width Monitor Dimension (Wx Hx D) Weight Carrion Dimensions (Wx Hx D) Weight Carrion Dimensions (Wx Hx D) Packed Weight VESA <sup>TM</sup> Standard Mount Interface Accessory Stand & Speakers POWER Power Saving Power Supply Power Saving Pow	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Normal/Milite Wosh/Orbiter/Inversion/Orb.*(nn. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD lock Yes Yes Yes On / Off  Black 63.6mm 50.5*x30.2"x4.6" 93.4 lbs. 55.8"x35.4"x15.1" 108.6 lbs. 800mm x400mm (APWX60) None available Yes, Level1/Level2/Level3 90 ~ 264V / AC (47 ~ 63Hz) Builtin Power Tact Switch 400W 1 W (RCB) / 2W (HDMI/DVI) 1 W (RCB) / 2W (HDMI/DVI) 1 W (RCB) / 2W (HDMI/DVI) 1 W (CB scheme / TUV / NEMKO)
Position Tracking Tracking Tracking Setup Language ISM Method XD Engine Advanced Time Special Mute Sleep Timer Auto Power/Source Memory Child Lock Power Indicator CABINET Color Bezel Width Monitor Dimension (W x H x D) Weight Carton Dimensions (W x H x D) Pocked Weight VESA' <sup>M</sup> Standard Mount Interface Accessory Stand & Speakers Power Saving Power Supply Power Supply Power Supply Power Saving	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Narmal/White Wash/Orbiter/Inversion/Orb.+finx. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD tock Yes Yes Yes On / Off  Black 63.6mm 50.5* x 30.2* x 4.6* 93.4 lbs. 55.8* x 35.4* x 15.1* 108.6 lbs. 800mm x 400mm (APWX60) None available Yes, Level1/Level2/Level3 90 ~ 264V / AC (47 ~ 63Hz) Builkin Power Tact Switch 400W IW (RGB) / 2W (HDMI/DVI) IW
Position Tracking Tracking Set-up Language ISM Method XD Engine Advanced Time Special Mute Sleep Timer Auto Power/Source Memory Child Lock Power Indicator CABINET Color Bezel Width Monitor Dimension (W×H×D) Weight Carton Dimensions (W×H×D) Pocked Weight VESA™ Shondard Mount Interface Accessory Stand & Speakers POWER Power Saving Power Saving Power Supply Power Type Power Saving Power Switch Type Power Saving Normal DPMS Switch Off STANDARD (CERTIFICATION) Safety EMC	H / V Auto / Clock / Phase English/French/Spanish/Korean/Italian/ German/ Portugese/Japanese/Chinese Normal/Milite Wosh/Orbiter/Inversion/Orb.*(nn. XD Contrast/XD Color/XD NR/MPEG NR Cinema / Black level Clock / Off time / On time Auto Adjust, OSD lock Yes Yes Yes On / Off  Black 63.6mm 50.5*x30.2"x4.6" 93.4 lbs. 55.8"x35.4"x15.1" 108.6 lbs. 800mm x400mm (APWX60) None available Yes, Level1/Level2/Level3 90 ~ 264V / AC (47 ~ 63Hz) Builtin Power Tact Switch 400W 1 W (RCB) / 2W (HDMI/DVI) 1 W (RCB) / 2W (HDMI/DVI) 1 W (RCB) / 2W (HDMI/DVI) 1 W (CB scheme / TUV / NEMKO)













# WELCOME TO VIDA CENTER. 2.52 pm HAIR & MAKEUS SHO DTHER'S DAY SPECIAL GIFTS PRICED FROM \$25 AT STROMS · AUTHOR JEAN SIMON BOOK

# LCD Widescreen Full HD Capable Monitor

NATIVE DISPLAY RESOLUTION 1920  $\times$  1080 (WUXGA) Full 1080p resolution

IMPROVEDI ULTRA THIN NARROW BEZEL 16.9mm (0.67")



BACKLIGHT CONTROL

NEW! LAN CONTROL

CONVENIENT EXTERNAL SPEAKER-OUT

INFORMATION DISPLAY FOR SERIAL NUMBER

VIEWING ANGLE and LIFE EXPECTANCY Enhanced in Portrait Mode

SPUT ZOOM (self video wall)
Up to 5 x 5 matrix - adjusts for bezel width

IMPROVED! HIGH BRIGHTNESS 700 cd/m²

CONTRAST RATIO 3000:1 (DCR)

HDMI<sup>M</sup> WITH HDCP

SUPER IPS 178° Viewing Angle

OSD and REMOTE CONTROLLOCK

RS-232C CONTROL

OPTIONAL HIDDEN SPEAKERS



3-YEAR LIMITED WARRANTY parts/labor



### VIDEO WALL CONTROL

The content for each monitor can be easily controlled by selecting the video source per unit.

Somputer input Size video input 1 Xi video input 2 Size video input 3	scomputer input fix video input 1 fix video input 2 fix video input 3	Secomputer input 完 video input 1 证 video input 2 题 video input 3	Computer input de sideo input ? de video input 2 de video input 3	computer input divided input 1 divided input 2 divided input 3
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computer input des input 1 X video input 2 video input 3	Scompular input video input 1 video input 2 video input 3	computer input video input 1 video input 2 video input 3	compoter input  video input 1  Xi video input 2  video input 3	Computer input  videa input 1  videa input 2  videa input 3
Somputer input Still video input 1 Xi video input 2 Still video input 3	Computer input video laput 1 video laput 2 video input 3	competer input video input 1 video input 2 video input 3	computer input S video input 1 Xi video input 2 S video input 3	computer input 35 video input 1 35 video input 2 35 video input 3



5 x 5 Matrix (Max)

# HIGH BRIGHTNESS, CLEAR CONTRAST RATIO [700 nits, 10,000.1]

The M4224C sets a new standard in video performance with a brightness of 700 cd/m² and a high contrast ratio of 10,000:1 which surpasses standard manitors.

# VIEWING ANGLE AND LIFE EXPECTANCY ENHANCED IN PORTRAIT MODE

- 178' (H)/178' (V) viewing angles
- Panel life 50,000 hours (approx.) to half brightness.

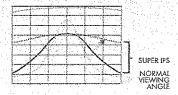


### **SUPER IPS**

Technology that delivers ultra-wide viewing angles, Ideal for situations where screens are positioned at different angles.

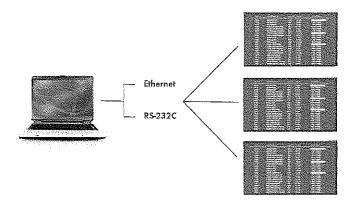






# **REMOTE CONTROL USING LAN OR RS-232C**

- RJ45 and RS-232C jacks provide the communication interface between the set and external equipment.
- With LAN or R\$-232C, functions can be executed at a distance with ease by using a remote control to manage the power on/off, color calibration, aspect ratio, etc...
- LAN control provides a convenient way to manage multiple monitors from a single control center.



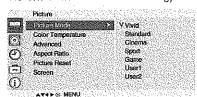
# **DISPLAY INFORMATION**

Adjust Set ID and check Serial Number and Software Version.



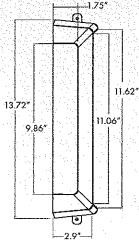
# **BACKLIGHT CONTROL**

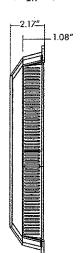
Controls the brightness of the screen by adjusting the LCD panel brightness. The result would be an increase in energy savings if brightness is reduced.

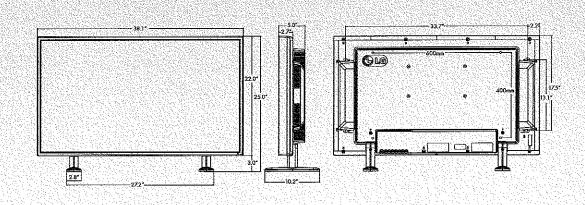


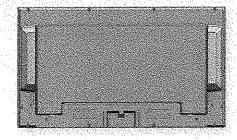


# HIDDEN SPEAKERS SPOOOK (optional)

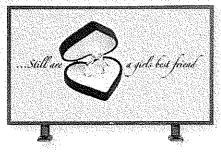








HIDDEN SPEAKERS SP0000K (opitionall) Dimensions (MAFAD)  $2.9^{\rm a} \times 13.7^{\rm a} \times 2.2^{\rm a}$  each Weight 1.7 lbs  $\{0.85$  lbs  $\times 2\}$  10 Watts



Stand \$70000K (optonal) Dimensions (Wartel)  $2.6^{\circ} \times 10.1^{\circ} \times 7.3^{\circ}$  Weight 2.8 lbs  $\{1.4$  lbs  $\times 2\}$ 

### REAR JACK PANEL



ICD Panel Type	42"
Display Area	42.0" diagonal
Aspect Ratio	16:9
Native Resolution	1920 x 1080 (WUXGA)
Pixels (H x V x 3)	6,220,800
Brightness	700 cd/m2
Contrast Ratio	3,000:1 (DCR)
Viewing Angle (H x V)	178° × 178°
	Yes
Super IPS	10.6 Billion
Calor Depth	
Response Time	9 ms (G to G)
Surface Treatment	Hard Coating (3H) Anti-glare
MTBF	50,000 Hr. (Minimum) Portrait & Landscape
VIDEO	
Max Input Resolution	1920 x 1080 @ 60Hz (RGB, HDMI/DVI)
Recommended Resolution	1920 x 1080 @ 60Hz (RGB, HDMI/DVI)
H-Scanning Frequency	30 ~ 83kHz (RGB, HDMI/DVI)
V-Scanning Frequency	56 ~ 75 Hz (RGB), 60 Hz (HDMI/DVI)
Pixel Frequency	148.5 MHz (RGB, HDMI/DVI)
Sync Compatability	Separate / Composite / Digital
Video Input	RGB, HDMI/DVI
Picture mode	Vivid/Standard/Cinema/Sports/Game/
	User1/User2
Color temperature	Warm/Medium/Cool/User
REAR INPUTS/OUTPUTS	
Component Video	1 Hi-Res (BNC)
PC Input via 15-Pin Sub "D"	lin / l out
Composite Video Input/Output	1 (BNC) / 1 (BNC)
Audio Output	1
Audio Inputs	2 Plus PC Sound
HDTV Formats	Component: 720p/1080i/1080p
HUI V FORMUS	HDMI:720p/1080i/1080p
DC r	
PC Formats	Auto Scaling to WUXGA
HDMI with HDCP	Yes
RJ45	Yes
RS-232C Input/Output	1/1
S-Vîdeo	l (SVideo has a priority but there is no input mad
Audio Jack Builtin (No Amp)	Yes
Discrete IR Input	Yes
External_Speaker Out	Yes
AUDIO	
Auto Volume	Yes
Balance	Yes
Audio Power	20W (10W x 2)
Speaker On/off	Yes
Sound mode	Clear Voice/Standard/Music/Cinema/
	Sports/Game/User
POWER	-p, definer out.
Power Supply	100-240V-, 50/60Hz
Power Type	Built-in Power
Power Switch Type	Toet Switch
Power Saving	
Normal	200 W
Stand-by/Suspend	2W (RGB)/4W (HDMI/DVI)
DPM Off	2W (RGB)/4W (HDMI/DVI

Backlight Control	Yes
Temperature Sensor	Yes
Split Zoom (Self Video Wall, Max 5 x 5)	Yes, supports natural mode
Source Selection	Digital (HDMI/DVI)/Analog (RGB)/ Companent/AV
Brightness/Contrast	Yes
Color	Warm/Medium/Cool
	User Control (R/G/B)
Position	H/Y
Tracking	Auto/Clock/Phase
Set-up	Language(English/French/Spanish/ Italian/German/Portugues/
	Karean/Japanese/Chinese/Russian)
ISM Method	Normal/White wash/Orbiter/
	Inversion/Dot wash
Advanced	Gamma/Film mode/Black level/ Noise Reduction
Time	Clack/On/off timer/Auto sleep/
	Power on Delay
Information display	Serial Number, SET ID, MNT S/W
тотпанан аврау	
<u> </u>	Version, LAN S/W Version
Mute	Yes
Sleep Timer	Yes
Auto Power/Source Memory	Yes
Key Lock	Yes
DPM Select	Yes
CABINET	
Monitor Dimensions (W×H×D)	38,1" x 22,0" x 5.0"
Monitor Weight (W×H×D)	41.2 lbs
Monitor Dimensions w/opt. stand (W×H×E	
Weight w/opt, stand	44.1 lbs
	38.1" x 25.0" x 10.2"
Monitor w/opt. stand and opt. speakers (W×H×D)	
Weight w/opt. stand and opt. speakers	45.8 lbs
Packaging (W×H×D)	38.1" x 22.1" x 4.9"
Weight with Packaging	48.0 lbs
Color	Black/Silver
VESA™ Standard Mount Interface	600mm x 400mm
STANDARD (CERTIFICATION)	
Safety	UL/c-UL/CB scheme/TUV/NEMKO
EMC	FCC Class "B"/VCCI/C#ck/CE/MIC
RoHS Compliant	Yes
UPC	7 19192 18545 6
SERVICE/LIMITED WARRANTY	- AV
Limited Warranty (Parts/Labor) OPTIONAL ACCESSORIES	3 Years
SPOOOK (speakers)	fits M4224C-BA
Dimensions (W x H x D) (each)	2.9" x 13.7" x 2.2"
Weight (2 speakers)	1.7 lbs
Packaging Dimensions (W×H×D)	15.1" x 5.3" x 6.9"
Packed Weight	2.36 lbs (2 Speakers/1 Package)
	fits M4224C-BA
STOOOOK (stand)	
Dimensions (W x H X D)	2.6" × 10.1" × 7.3"
Weight	2.8 lbs
Packaging Dimensions (W×HXD)	12.4" × 2.8" × 11.0"
Shipping Weight	3,64 lbs.

SPECIAL FEATURES

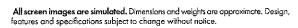
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Customer Service: 888.865.3026

Contact your LG Regional Sales Representative: Enterprise: 800.897.8788 Channel: 800.897.8871 Hospitality: 800.228.1236 E-mail: LGcommercial@lge.com

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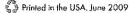


PONTO ABOUTOR HEMI

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# VIDEO FURNITURE INTERNATIONAL

Furniture Designs That Communicate.



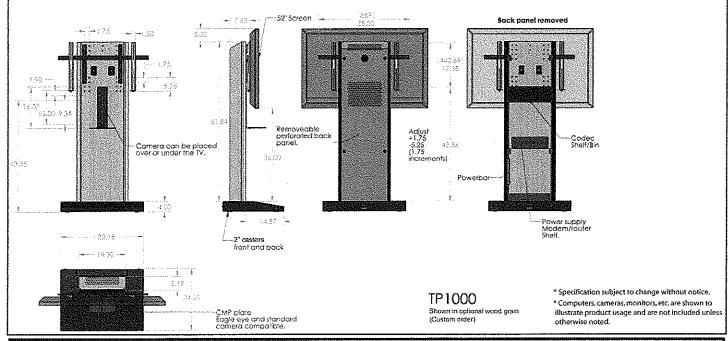
# Model TP1000 Telepresence stand

VFI's Telepresence stand is designed for a clean modern look. TP1000 is a self supporting stand with built in shelves engineered for all common videoconference codecs and accessories such as switches and routers. TP1000 includes 2" casters so it can be moved if required.

This mount accommodates most 40"to 58"+ Flatpanel TV's. Max mount hole location is 800mm wide X 440mm high.

### Standard Features Include:

- Heavy duty steel tube construction
- Furniture grade laminate, Aluminum and steel construction
- · Base is weighted MDF laminate with steel cover.
- Accomodates 40-58 Flatscreen TV's (800mm x 440mm spacing)
- Steel 2" casters with 360 degree swivel.
- · Wiring channel inside main pillar
- Adjustable height camera mount can be above or below TV.
- Adjustable TV bracket height, during setup.
- includes codec and power supply shelves inside rear
- 6 outlet power bar with 10ft cord mounted inside
- TVCB-Camera above left or right TV
- Six outlet power bar with 10 ft cord (additional)
- · Colors: Other colors available with lead time.



190 Don Hillock Drive . Aurora . Ontario . L4G 0G9

Tel: (905) 751-1459 Toll Free: (877) 834-3876 Fax: (905) 751-1488

sales@video-furn.com

www.video-furn.com