

Request for Proposals
Brisbane Mini AV Upgrade in Council Chambers

April 28, 2017

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1. Scope:

The City of Brisbane, California, ("City") is replacing its switching equipment and control equipment ("Equipment") located within the Council Chambers' broadcast booth that was originally installed in 2008. The form of the Construction Agreement into which the successful Proposer must enter is attached to this Request for Proposals.

Specifically,

- a. Switch out the below AMX equipment for Crestron
 1. AMX NI-4100 – Master Control w/ PSU
 2. AMX NXC-COM2 – RS-232 Cards
 3. AMX NXC-REL10 – Relay card
 4. AMX NXT-CV7 – Table top touchpanel
 5. AMX MVP-8400 – Wireless touchpanel (AMX touchpanel is currently docked on wall; the City would like to move the wall-mounted touchpanel to Staff 1 desk (City Clerk's desk) with a Crestron wireless).
- b. Fix problem with routing from Switcher 2; Extron Crosspoint 450 Plus 88HVA – 8x8 switch and Extron SW 6 VGA Audio-VGA switcher may need to be replaced. City would like to know cost for this equipment and labor alone, separate from items #1-#5 listed above.

In addition to the new equipment, the City would like to have the Crestron touchpanels programmed to:

- c. Integrate with the new NEC projector to control system, with the touchpanel able to indicate the percentage of remaining lamp life and allow for setting longer sleep times.
- d. Allow for volume indicators.
- e. Allow for camera/presentation controls from Staff 1 desk (City Clerk's desk).
- f. Allow for control of Lobby TV, with ability to display both the live AV feed for overflow events, and TV/DVD options.

A final item the City would like to receive proposals on is:

- g. Wireless connectivity (using Staff input 4). Like the switching equipment, the City would like to know cost for this work alone, separate from the above equipment in a. and b.

In addition to providing the Equipment, the selected vendor shall:

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- a. Interconnect between the Equipment and an adjacent rack of existing audio and presentation equipment as shown on the connection list (below and in Exhibit A)
 - b. Interconnect the Equipment with an adjacent rack of station management and replay equipment to bring the Council Chamber video and audio signals to the cablecasting switcher as shown on the connection list below and Exhibit A.
 - c. Provide submittals as described below.
 - d. Test system functionality and interconnections as described below.
 - e. Provide documentation as described below.
 - f. Complete all work no later than July 7, 2017, during a block of consecutive days the Council Chambers is not being used. Vendor will coordinate with the City on available dates.
2. How to Bid:
- Vendors shall return proposals to Brisbane City Offices, Attn: Caroline Cheung, 50 Park Place, Brisbane, CA 94005 by 12 noon, Friday, May 19, 2017. Proposals shall include:
- a. List of equipment supplied.
 - b. Timeline for submittals, equipment installation, test, and acceptance.
 - c. Vendors are REQUIRED to visit the site and view the current equipment located at: Brisbane City Hall, 50 Park Place, Brisbane, CA by making an appointment with Caroline Cheung: Direct (415) 508-2157; ccheung@ci.brisbane.ca.us.
 - d. Total bid price with all applicable labor, equipment, expenses, taxes and freight.
 - e. Contractor Qualifications
 - Three projects (minimum) of similar scope successfully completed in the past 24 months;
 - Indicate the location, type of system installed, total contract amount, date completed, and client contact information (name, telephone number).
 - Certified by the manufacturer as an authorized supplier and installer.
 - Certified by the manufacturer as an authorized service agent for repairs covered under warranty.
 - CTS: The lead system design engineer must hold a CTS-D certification. The lead field technician or site foreman must hold CTS-I certifications.

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3. General Requirements:

- a. All equipment shall be new and designed for the purpose intended. Equipment shall comply with applicable codes including but not limited to 2017 California Electric Code and state and municipal ordinances. All cables shall be labeled and designations shown on final as-built drawings.

4. Specific Requirements:

- a. **Functionality:** The purpose of the Equipment is to update the existing switching and control equipment. The Equipment must have the following minimum functionality:
 - i. Ability to seamlessly switch between video sources, glitch and noise free.
 - ii. Ability to output simultaneously to recording devices, Presentation system, Cablecasting and lobby display.
 - iii. In the course of testing the new replacement equipment, bring to the City's attention any existing equipment which is not functioning properly in order to provide, in conjunction with the new equipment, a working overall system.
- b. **Submittals:**
The following shall be submitted:
 - i. Drawings showing audio, video, power, monitoring and control interconnections between all equipment list items
 - ii. Drawings showing rack layout with dimensions from the floor of all items.
 - iii. Equipment list with specific part numbers.
 - iv. Submit proposed touchpanel page layouts for approval by the City prior to final programming.
- c. **Testing:** Vendor shall demonstrate on-site all functionality as defined in item 4a.
- d. **Documentation:** Submit three copies of final as-built as-tested drawings. One copy shall be full size and two reduced to 11x17". Provide final as-built as-tested drawings in electronic form (USB thumb drive or CD). Provide two sets of instruction manuals for all purchased items including manufacturer's manuals, documentation on setup of equipment items, and copies of purchase orders. Provide all manufacturer supplied warranty registration cards, software and documentation. Provide touchpanel programming source code (USB thumb drive or CD).

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- e. Training: Vendor shall train City for a minimum of 4 hours in all functionality as defined in item 4a, prior to final acceptance.
 - f. Support / Warranty: Vendor shall warranty all parts and labor for one year from date of acceptance, or for the duration of the manufacturer's warranty, whichever is longer.
5. Current Equipment List:
- a. Qty 1 Video Switcher / Audio Mixer: Datavideo SE800AV
 - b. Qty 3 Cameras – SONY BRC-300
 - c. Qty 3 CAT5e SVideo transmitter receiver for Sony BRC-300, Black Box, Gefen or approved equal.
 - d. Qty 3 Camera Control RS232 via Gefen Cat5e transmitter receiver for Sony BRC-300
 - e. Qty 1 Telemetrics CP-ITV-D300 deskmount remote Pan-Tilt-Zoom camera controller
 - f. Qty 2 DVD Recorders JVC SR-DVM700US
 - g. Qty 1 Compix LCG 3000D Character Generator
 - h. Qty 1 19" desk mount monitor for Compix CG. Samsung Syncmaster with TV Tuner or approved equal.
 - i. Qty 1 Program and Preview Monitors Dual 8" with Audio: CoolTouch RX-802A
 - j. Qty 1 Switcher Input Monitors: Datavideo TLM-404
 - k. Qty 1 Camera tally and preview accessory: Datavideo RMC-140
 - l. Qty 1 Equipment Rack: Middle Atlantic WRK-44-32 to match adjacent presentation equipment rack, vertical power strip(s), flat black finish with matching blank panels
 - m. Qty 1 Rackmount light for dimmable illumination of equipment and writing desk
 - n. Qty 1 Rackmount USB ports for Compix CG
 - o. Qty 1 WS2-W32-24 writing shelf for Middle Atlantic WRK rack
 - p. Qty 1 UD4 Middle Atlantic Rackmount Drawer
 - q. Qty 1 Kramer 401C Y/C to 2-Y/C and 2 Composite DA and Transcoder
 - r. Qty 1 Kramer VM3A Audio DA
 - s. Power Conditioning / Surge protection and distribution.
 - t. Qty 1 UPS with battery backup sized for 10 minutes of power to all items in the rack.
 - u. Qty 2 Camera mounts for Sony BRC-300 on SE and NE walls of room 147, to extend cameras away from wall 2'.
 - v. Lot cables, connectors, adapters, terminators as required for a complete working installation.

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6. Connection List: Connections below are not intended to represent every required connection for full functionality, but to serve as indicators for the methodology which will provide features necessary for the operators. Refer to block diagram, Exhibit A, attached to this bid document.

From	To	Type / Purpose
Presentation Rack: Symetrix outputs 9 & 10	Datavideo SE-800 Stereo Audio input 1	Stereo audio from Presentation system
Datavideo SE800 Audio 1 Out	Cablecast Rack	Stereo Line Level Audio feed to "Air"
Datavideo SE800 Audio 2 Out	Kramer VM3A DA	Stereo Line Level Audio feed to DVD Recorders
Datavideo SE800 1-4 Monitor Output Composite Video	Datavideo TLM-404 LCD monitors	Composite video monitor for each switcher input
Datavideo TLM-404 LCD monitors video out	Datavideo RMC-140 Preview and Tally Accessory	Generates composite preview video signal
Datavideo RMC-140 Video Out	Cooltouch 802A #1 Video In	Switcher Preview
Datavideo SE800 RS232 Out	Datavideo RMC-140 RS232 In	Passes SE800 status info
Datavideo RMC-140 Tally Out	Datavideo TLM-404 Tally In	Controls LCD Tally Lights
Datavideo SE-800 Switcher S-Video Program Output	Compix CG S-Video Input	Switcher Program video out to CG video in
Compix CG S-Video Output	Kramer 401C Transcoder DA in	SVideo Program distribution
Kramer 401C Composite 1 Out	Cooltouch 802A #2 Video In	Monitor Composite Pgm
Kramer 401C Composite 2 Out	Cablecast Rack Leightronix Mini-T input #6	Composite Video to cablecasting
Kramer 401C Y/C 1 Out	JVC DVD Recorder #1 Svideo In	For recording to DVD
Kramer 401C Y/C 2 Out	JVC DVD Recorder #2 Svideo In	For recording to DVD
DVD Recorder #1 SVideo Out	CoolTouch Preview Monitor SVideo Input #1	For monitoring JVC DVD recorder #1 operation
DVD Recorder #2 SVideo Out	CoolTouch Program Monitor SVideo Input #2	For monitoring JVC DVD recorder #1 operation

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Presentation Rack Kramer VP72 YUV output	Datavideo SE800 Input 4	Component video out from presentation to switcher
Datavideo YUV output	Presentation Rack Extron Matrix Switcher input 3	Component video out to run monitor in chamber lobby
Datavideo SE800 Composite Video Out	Cooltouch 802A monitor 2 composite input 2	Monitor composite output of video switcher
JVC DVD #1 Stereo Audio out on Y Cable to sum channels	Cooltouch 802A monitor 1 audio input	Monitor DVD #2 audio
JVC DVD #2 Stereo Audio out on Y Cable to sum channels	Cooltouch 802A monitor 2 audio input	Monitor DVD #2 Audio
Kramer VM3A Stereo Out 1	JVC DVD Recorder #1 stereo in	Line level audio in to DVD recorders
Kramer VM3A Stereo Out 2	JVC DVD Recorder #2 Stereo in	Line level audio in to DVD recorders
Compix CG Stereo Line Out	Datavideo SE800 Audio 2 In	Stereo line level audio feed for music

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7. CURRENT RACK LAYOUT – see diagram to right, dimensions approximate

BRISBANE TELEVISION PRODUCTION RACK

	Height Above Floor
Additional Blanks or Fans to top	
Power Conditioning	64.25
Power Conditioning	
Blank	60.75
Blank	59
Light	57.25
Blank	
DVD Rec JVC	53.75
DVD Rec JVC	50.25
CoolTouch* RX-802AL Dual 8" Monitor	46.75
TLM 404 Quad Monitors <i>Camera Preview</i>	41.5
Compix USB I/F	
Audio/Video DA	
Blank	
Open / Wiring	31
DESK	29.25
Open Open	
Compix CG	22.25
4U Drawer	
Open	
UPS	10
Open Open	