

BOARD OF COUNTY COMMISSIONERS STUDY SESSION AGENDA

Wednesday, February 24, 2021 | 11:15 a.m.



1. General Discussion.
2. Discuss BOCC chamber AV System quote from Cytek Media System with Chairman Roberts.
3. Update on SPARK funding with Steve Lyman and Janet McRae.

MIAMI COUNTY

STAFF REQUEST FOR COMMISSION ACTION

SUBMITTED BY: Shane Krull	REQUESTED MEETING DATE: February 24, 2021
DEPARTMENT: Administration	REQUESTED MEETING: <input checked="" type="checkbox"/> STUDY SESSION <input checked="" type="checkbox"/> REGULAR MEETING
CONTACT INFORMATION:	PROJECT / REFERENCE NUMBER:

AGENDA ITEM / SUBJECT: BOCC Meeting Chamber AV Changes
ITEM BACKGROUND / DESCRIPTION: The BOCC Meeting Chamber is needing to update it's AV system to allow personnel and citizens to properly hear and interact in all board meetings. After interviewing several companies, it was determined that Cytek Media Systems was the best qualified to design and install the equipment needed.
REQUESTED ACTION / STAFF RECOMMENDATION: Approve the quote from Cytek Media Systems for design and install of equipment at of cost of \$42,797.00.

BUDGET IMPACT: \$42,797.00		
BUDGET AUTHORITY: \$	REMAINING BUDGET ALLOCATION: \$	
FUND / LINE ITEM: ###-###-####	FUNDS BUDGETED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	CAPITAL PROJECT: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

SUBMITTER'S SIGNATURE: _____

DATE: _____

FISCAL REVIEW

Steve Gorman

2/18/2021

SIGNATURE:

DATE:

Comments:

LEGAL REVIEW

SIGNATURE:

DATE:

Comments:

ADMINISTRATOR REVIEW

Shane K. A.

2-18-21

SIGNATURE:

DATE:

Comments:

COUNTY CLERK'S OFFICE USE

Commission Action Taken:

Accepted

Denied

Postponed

Acknowledged

Date Action Taken:

Required Follow-up Date:

Publication Required:

Submitted to Publication By:

Yes

No

NPG Account Number:

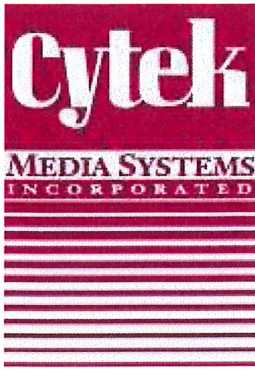
Mail Distribution Required:

Mailed By:

Yes

No

Quotation



126 NW Jackson St.
Topeka, KS 66603-3310
Main Office: 785-295-4200
Toll Free 800-255-0064
Fax 785-295-4290
eMail: rob.smith@cytekmedia.com

Quote #: 221-19330-2
Project: Commission Chamber AV Update v2
(NEW front speakers, NO rear speakers)
Quote Date: 2/12/2021 **Quote Valid:** 120 Days
Terms: Net/30
Freight: 067 Paid By Cytek
State of Kansas 42599

Prepared for: Shane Krull
Miami Co Administration
201 S. Pearl, Suite 200
Paola KS 66071

Item	Manufacturer	Model	Qty	Unit Price	Price
Display					
1	Sharp	4T-B60CJ1U	2	\$1,029.00	\$2,058.00
	60" 4K Ultra-HD Commercial Display (55 lbs) - Front Displays				
	Give your message a big-screen boost with a Sharp commercial LCD display. The Sharp 4T-B60CJ1U - 60" Class display conveys your message with the true-to-life precision of 4K Ultra-HD resolution. Built-in tuner support and business-friendly features are packed into an elegantly slender frame. In hospital, business and retail settings, the 4T-B60CJ1U display excels at reaching your audience, making them more informed, more entertained and more engaged.				
2	Sharp	4T-B70CJ1U	1	\$1,508.00	\$1,508.00
	70" 4K Ultra-HD Commercial Display (76 lbs) - Rear Display				
	Give your message a big-screen boost with a Sharp commercial LCD display. The Sharp 4T-B70CJ1U - 70" Class display conveys your message with the true-to-life precision of 4K Ultra-HD resolution. Built-in tuner support and business-friendly features are packed into an elegantly slender frame. In hospital, business and retail settings, the 4T-B70CJ1U display excels at reaching your audience, making them more informed, more entertained and more engaged.				
3	Chief	LTM1U	3	\$227.00	\$681.00
	Large FUSION Micro-Adjustable Tilt Wall Mount - mount Display to soffit with				
	Chief upgraded fixed wall mounts based on installer feedback and direct observations of installers in the field. Many new features join Fusion favorites like Centerless shift, Centris tilt, ControlZone leveling adjustment and ClickConnect Latching. New benefits included added stability, faster install, improved lateral shift, easier cable management and enhanced security. Typical Screen Sizes 42 - 86"				
4	Cytek	CUSTMNT	1	\$325.00	\$325.00
	Custom Mounting Hardware for TVs Mounting on Soffit				
	Custom mounting hardware for equipment per Job Specification.				
Video					
5	Generic	OPE	1		Owner Provided
	Owner Provided PC located at Control Panel on Dais				
	Owner Provided Equipment				



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Bid Quote - Rev 2
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MIAMI COUNTY ADMINISTRATION
 Commission Chamber AV Update v2 Quote #221-19330-2


Item	Manufacturer	Model	Qty	Unit Price	Price
6	 Barco	CSE-200	1	\$1,647.00	\$1,647.00
ClickShare Wireless Presentation System for Small/Medium Rooms The CSE-200 comes standard with (2) USB buttons. Allows up to (16) simultaneous connections and allows up to (2) users on screen. It offers the ClickShare experience for small and medium-sized meeting rooms. Anyone – including guests – can connect with one click and share right away, without the need for any training. Users simply plug a USB-powered device – the ClickShare Button – into their PC or Mac and click the button to get the content from their laptop on the large meeting room screen. With the ClickShare App, users can also share content from their mobile phones or tablets. This wireless presentation system allows users to simply share what's on their laptop or mobile device, on the presentation screen. No cables, no set-up, no waiting to join in.					
7	 Epson	DC-21	1	\$539.00	\$539.00
Document Camera at Lectern Engage students like never before with the Epson DC-21 document camera. This portable performer easily captures and displays books, 3D objects and experiments with amazing clarity, thanks to HD 1080p resolution, a large imaging sensor and HDMI connectivity. Share the finest detail with 12x optical zoom and 10x digital zoom. Or, display magnified images with the microscope adapter. Record audio with video using the built-in microphone. At 30 fps, video playback is seamless. And, there are convenient Freeze and Capture buttons. Plus, you can save lessons to an SD card or computer.					
8	 Crestron	DM-TX-4KZ-302-C	1	\$1,316.00	\$1,316.00
DM 8G+ 4K60 4:4:4 HDR Transmitter 302 for Lectern Video Sources Provides a multi-input, auto-switching interface and controller for 4K HDMI and DisplayPort sources as part of a complete DigitalMedia System. Supports 4K60 4:4:4 and HDR video signals. Connects to the DM 8G+ input of a DM Switcher or Receiver via a single CATx cable. Includes IR, RS-232, and Ethernet control ports, and USB HID device and host signal extension ports. Compatible with HDBaseT and Crestron Connect It.					
9	 Crestron	HD-MD4X4-4KZ-E	1	\$2,632.00	\$2,632.00
4x4 4K60 4:4:4 HDR AV Switcher in Main Rack A high-performance rack-mountable 4K60 4:4:4 AV switcher. Provides four HDMI inputs and four HDMI outputs. Includes support of HDR (High Dynamic Range) and Dolby Vision video formats, advanced EDID management, native Crestron® control via Ethernet, XiO Cloud connectivity, and enterprise-grade security.					
10	 Crestron	HD-RX-101-C-E	4	\$220.00	\$880.00
HDMI over CATx Receiver, Surface Mount The HD-RX-101-C-E is a surface-mountable DM Lite receiver designed to pair with a DM Lite transmitter to form a point-to-point signal extender for HDMI signals. The DM Lite family of products offers a very simple and versatile solution for extending HD, UHD, 2K, and 4K video signals, with stereo or surround sound audio, over a single CAT5e (or better) cable. A cable length of up to 230 ft (70 m) is supported for HD 1080p, WUXGA, and 2K signals, or up to 130 ft (40 m) for UHD and 4K.					
11	 Crestron	HD-TX-101-C-E	4	\$220.00	\$880.00
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Item	Manufacturer	Model	Qty	Unit Price	Price
12	Crestron	DM-RMC-4KZ-100-C	1	\$592.00	\$592.00
	DM 8G+ 4K60 4:4:4 HDR Receiver & Room Controller 100				
<p>The DM-RMC-4KZ-100-C provides a simple one-box interface solution for a single display device as part of a complete Crestron DigitalMedia system. It functions as a DM 8G+ receiver and control interface, providing a single HDMI output along with Ethernet, RS-232, and IR control ports. In addition to DM 8G+, it is also compatible with HDBaseT, which allows it to be connected directly to an HDBaseT certified source. Its compact, low-profile design allows the DM-RMC-4KZ-100-C to be installed discreetly behind a flat panel display or above a ceiling mounted projector. It connects to the head end or source location using a single CAT type twisted pair cable.</p>					


PTZ Camera


13	PTZ Optics	PT12X-SDI-WH-G2	2	\$1,707.00	\$3,414.00
	12x Optical Zoom SDI PTZ Camera Gen 2 - White				
<p>The PTZ Optics 12X-SDI is a 1080p camera with 12X optical zoom for capturing HD video at long distances. With support for HDMI, 3G-SDI and IP Streaming (H.264 or H.265) this camera is ideal for broadcasting high definition video signals for broadcast or video conferencing applications.</p>					

14	PTZ Optics	PT-CM-1-WH	1	\$64.00	\$64.00
	PT-CM-1-BK Small Universal Ceiling Mount (White) for Front Camera				

15	PTZ Optics	HCM-1-WH	1	\$96.00	\$96.00
	Small Universal Camera Wall Mount (White) for Rear Camera				
<p>Small Camera Wall Mount for HC3X, HC10X, HC10X-720 (Black). All small base HuddleCamHD Cameras. All PTZOptics cameras. This Universal Thin Profile Wall Mount was designed specifically for an ideal way to wall mount a camera above or below a plasma or LCD monitor. Constructed from heavy gauge steel, this mount comes with a 3 year manufacture warranty.</p>					

Streaming/Recording

16	Epiphan	Pearl Mini	1	\$3,587.00	\$3,587.00
	Pearl Mini Streaming Device				
<p>All-in-one video production system that's small in size and big on pro features. Record, stream, and switch multiple HD inputs simultaneously. Connect any camera or video source with HDMI, SDI, and DVI connectors. Live event production or lecture capture streaming has never been easier. Simultaneously live stream to YouTube, Facebook or other content delivery networks and content management systems using custom RTMP/RTMPS or RTSP. At the same time, use the built-in streaming server to stream locally to web browsers, smart TVs, and set-top boxes.</p>					

17	Extron	SW4 12G HD-SDI	1	\$1,193.00	\$1,193.00
	Four Input 12G-SDI Switcher required for Camera input				
<p>The Extron SW4 12G HD-SDI is a four-input, two-output 12G-SDI switcher. It switches multi-rate SDI video, embedded audio, and other ancillary data between four source devices and delivers simultaneous output signals to a pair of SDI displays or sink devices. The SW4 12G HD-SDI supports video resolutions up to 4K/60, HDR, and data rates up to 11.88 Gbps, including all common serial digital video data rates specified by SMPTE and ITU standards. To ensure signal integrity over long cable runs, the switcher features automatic input cable equalization and output reclocking. The SW4 12G HD-SDI offers RS-232, front panel, and auto-input switching control options, allowing integration into a variety of applications and environments.</p>					



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 Commission Chamber AV Update v2 Quote #221-19330-2

Item	Manufacturer	Model	Qty	Unit Price	Price
Audio					
18		Shure MX418/C	1	\$220.00	\$220.00
MX418/C Microflex Standard Gooseneck Microphone with Cardioid Cartridge mounted on					
The Shure MicroFlex MX418 is a fully adjustable cardioid gooseneck microphone designed for podium and desktop use in speech, presentations, conferences and more. The MicroFlex gooseneck microphone series offers the flexibility of removable capsules offering cardioid (included) supercardioid and omnidirectional polar patterns. In addition, the MicroFlex series features high sensitivity and balanced, transformerless output for maximum immunity to electromagnetic hum and RF interference, even over long cable runs.					
19		Audio-Technica AT8657/LED	1	\$234.00	\$234.00
Flush-mount Microphone Socket with Logic I/O for Lectern					
Featuring a flush, tabletop-mount design, the AT8657/LED microphone socket allows for the easy use of any 21 mm gooseneck or button-style boundary microphone with a 3-pin XLRM-type output in a variety of presentation environments.					
20		Shure MX412D/C	8		Owner Provided
12" Desktop Base Microflex Gooseneck Mic on Dais					
Owner Provided Equipment					
21		Shure QLXD24/SM58	2	\$999.00	\$1,998.00
Handheld Digital Wireless Microphone System w/SM58 microphone					
Featuring an SM58® handheld wireless microphone transmitter, QLXD24/SM58 combines professional features with simplified setup and operation. Includes SM58, QLXD4, microphone clip, power supply, 2 AA batteries, battery contact cover, two 1/2 wave antennas, 2 BNC cables, zipper bag, 2 BNC bulkhead adapters, rackmount kit, and user guide					
22		Biamp TesiraFORTE AVB VT	1		Owner Provided
Telephony Conferencing Solution Forte VT existing DSP in Rack					
Owner Provided Equipment					
23		Crestron AMP-X300	1	\$533.00	\$533.00
X Series Amplifier X300 to power new QSC speakers					
The Crestron® AMP-X300 is a high performance, space saving, energy efficient, professional grade amplifier solution that's totally configurable, yet simple to use. Whether you need a stereo amp that mounts on a wall or under a table, or a multichannel rack mount amp with multiple output types and power levels, the AMP-X300 is simple to specify and install in any configuration.					
24		JBL CSA 280Z	1		Owner Provided
Existing Power Amplifier in Main Rack					
Owner Provided Equipment					
25		Crown Com-Tech 210	1		Owner Provided
Existing Power Amplifier in Main Rack					
Owner Provided Equipment					






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Item	Manufacturer	Model	Qty	Unit Price	Price
26	QSC	AD-C6T-WH	2	\$173.00	\$346.00
	6" 2-way 70 volt Speaker - White in front tiled ceiling				
The QSC AcousticDesign™ AD-C6T is a 6.5" two-way ceiling loudspeaker ideally suited for a wide variety of foreground and background sound reinforcement applications which utilize 70/100V or 16Ω bypass configurations. The AcousticDesign series offers integrators a premium quality installed sound solution where performance, consistent coverage, and aesthetics are paramount. Specifically designed to maintain a consistent tonal characteristic across the entire family in ceiling, surface, and pendant applications, the AcousticDesign series allows integrators seamless transitions within blended installations.					
27	JBL PRO	Control 28-1-WH	3	\$252.00	\$756.00
	High Output Indoor/Outdoor Speaker				
The Control 28-1 is a two-way 8" speaker with rich sonic character, wide coverage, consistent coverage, versatile mounting, and a contemporary high-design look that fits into a wide range of decors. This makes Control 28-1 an excellent choice for a wide variety of applications, including retail stores, restaurants, health clubs, theme parks, educational facilities, hospitality, music cafes, leisure venues, and anywhere where a top quality high-output indoor/outdoor foreground/background music (and/or paging) speaker is required.					
28	JBL PRO	MTC-28UB-1-WH	1	\$35.00	\$35.00
	U-Bracket for Control 28-1 Speaker in White				
U-Bracket for Mounting Control 28-1 Surface Mount Speaker Single Unit White					

Control


29	Crestron	TSW-760-B-S	1		Owner Provided
7" Touch Screen - Black Smooth at current Dais location					
Owner Provided Equipment					
30	Crestron	CP3N	1	\$1,733.00	\$1,733.00
	3-Series Control System Dual Network				
The Crestron® CP3N is an enterprise-class control system with a dedicated Control Subnet port. Featuring the 3-Series® control engine, the CP3N forms the core of any modern networked home or commercial building, managing and integrating all the disparate technologies throughout your facility to make life easier, greener, more productive, and more enjoyable.					
31	Ubiquiti Networks	ES-8-150W	1	\$263.00	\$263.00
	Managed PoE+ Gigabit Switch with SFP - 8 Network 150W required for Control Network				
Gigabit Connectivity The compact EdgeSwitch features a versatile port configuration: eight Gigabit Ethernet ports that support PoE+ and two SFP ports for fiber connectivity. It can be placed on a desktop or mounted on a wall. Convenient PoE+ Support Sharing a total of 150W, eight Gigabit Ethernet ports offer auto-sensing IEEE 802.3af/at PoE/PoE+ or 24V passive PoE to simplify your infrastructure.					



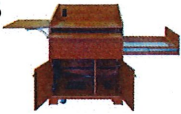
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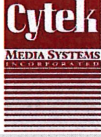

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Item	Manufacturer	Model	Qty	Unit Price	Price
32 	Crestron	XPANEL	1	\$0.00	\$0.00
Custom Designed Xpanel					
Transform any computer into a virtual Crestron touch screen with XPanel. Crestron XPanel lets you control anything in your home, office or classroom using a laptop or desktop computer running Windows or Mac. XPanel works on any computer platform and any screen size using a mouse, touch screen monitor, or other pointing device. It can be installed and run as a desktop application, or you can launch it like a Website using any Web browser. Use XPanel as a low-cost control solution for a small classroom AV system, to monitor your home from the office, as an interactive kiosk in a lobby or museum exhibit, or to enable centralized control of lighting and climate control in an office building or conference center. For virtually any application, XPanel can provide a robust and scalable IP based control solution.					


Furniture

33 	Marshall Furniture	ELCO-35DC	1	\$2,997.00	\$2,997.00
ELCO-35DC Lectern with Doc Camera Drawer - CUSTOM					
OPTIONAL FINISH COLORS AVAILABLE in 16 Standard melamine colors. Lectern Standard Features include: Surface Grommets, AC Outlets with USB Ports, Heavy Duty Drop Leaf Shelf, Pullout Keyboard Shelf, Locking Document Camera Drawer, Soft Close Standard Locking Doors, 10RU Fixed Rack, Floor Access Opening, 10" x 10" Floor Vent, Locking Rear Access Panel, 6-Outlet Surge Protector, Locking Carpet Casters. 10-Year Furniture Limited Warranty.					

System Integration

34 	Cytek	CABLES	1	\$2,985.00	\$2,985.00
Cables Connectors					
Cytek Professional Grade Cables and Connectors Plenum in wall & above ceiling cables					
35 	Cytek	PGMC	1	\$1,755.00	\$1,755.00
Custom Control Programming & Design					
Control Programming					
36 	Cytek	INT	1	\$6,980.00	\$6,980.00
Installation And Testing					
Professional Installation and Testing Travel is included					
37 	Cytek	PGMA	1	\$550.00	\$550.00
Custom Audio Programming & Design					
Audio Programming					

Service Contract

38 	Cytek	SC1	1	\$0.00	\$0.00
Service Contract 1 Year					
Cytek Support 1 Year Contract. includes Service Call fees. Unlimited phone support 8-5 CST. Assistance with RMA returns. 800-255-0064 / support@cytekmedia.com					

MIAMI COUNTY ADMINISTRATION
 Commission Chamber AV Update v2 Quote #221-19330-2

Item	Manufacturer	Model	Qty	Unit Price	Price
Total:					\$42,797.00 *

Updating/upgrading the A/V system in the Commission Chamber. Improving the current sound system, adding video for local presentation and streaming/recording.

VIDEO: (2) 60" soffit mounted 4K displays up front and a 70" soffit mounted 4K display in the back. Hardwire HDMI connection on the lectern for guest presenter. HD Document Camera also on the lectern. BYOD Wireless Presentation system for guest presenters. Miami Co will supply a dedicated PC for main presentations.

STREAMING/RECORDING: (2) HD PTZ cameras for video capture. One camera in front, one in rear. Room microphones and source audio transported into the streaming/recording audio. New Pearl Mini with custom layout options, multi-streaming, SD card recording. Miami Co uses a 3rd-party vendor for Stream configuration.

AUDIO: Use existing Biamp Tesira DSP, existing Dais microphones. Use (2) existing power amplifiers that feed (3) existing ceiling speakers above Dais. New 8" Front surface speakers to fill the Gallery. New power amplifier for these new speakers. New programming to improved/enhance existing audio in the room system and also for the recording/stream. New 18" lectern microphone and (2) new Wireless Handheld microphones.

CONTROL: Use existing Crestron 7" touch panel. Touch Panel will remain in current location. New control unit required to control TV power, cameras, stream, input selections, and audio levels. New control programming required. Wireless tablet control is available if Miami Co allows system components to live on their network.

LABOR includes turnkey installation of all specified A/V equipment. All required A/V wiring is included. Network and Electrical not included. Network and Electrical terminations supplied by others. **NOTE:** Some dry-wall demolition may be required for rear TV mounting. This may add additoinal cost (not included in this quote) for dry-wall cosmetic finishing after installation completion.

SUPPORT: Owner System Training included. Cytek 1-Year support included.



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