

PROPOSAL

Council Chambers 2023

City of Arroyo Grande

Revision: 1
Modified: 11/13/2023



Presented By:

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PROJECT SCOPE OF WORK

Council Chambers 2023

City of Arroyo Grande

Video

All three projectors will be upgraded to 7000 lumen laser projectors. Existing projector screens will be re-used. The video distribution system will be completely replaced using a network based system allowing for complete flexibility for routing video. New network-based cameras will be installed in the room. The staff table will have a dedicated PC for the Clerk. There will be four additional inputs for laptops, these inputs can be USB C or HDMI. This proposal includes the ability to stream video and audio to the eScribe platform provided encoder. (Additional subscription costs are the responsibility of the City.)

Audio

The audio system processor will be upgraded to a new processor. This new system has better microphone management and better audio processing for remote participants such as Zoom. New microphones will allow for user identification via an inserted card at each microphone. These microphones also have built-in speakers to help with users needing additional audio support during meetings. Existing speakers will be re-used in the facility. The existing assisted listen system will be incorporated into the new system.

Control

The control system will be upgraded in all locations: Clerk Desk, Broadcast Desk, and Conference Room. The controllers will be new generation touch panels that are more responsive to touch.

Broadcast Room

The broadcast operator system will have the same functionality as the current system. A new Camera Controller will be installed along with a new touch panel controller. The Existing V-Mix PC will be incorporated into the system. All audio and video will be fed into the V-Mix PC via network connection. New system PC's will be provided by the city to replace the other computers in the system. The operator monitors and speakers will be re-used. Keyboard extensions will be run from the control rack to the operator desk for connection to the computers.

* Price Includes Accessories



1 AJA U-TAP HDMI \$324.50
USB 3.0 HDMI capture device

1 ATAV Custom V-Mix PC \$0.00
[OFE] - Custom built computer optimized to run V-Mix for up to 4 NDI inputs. 1080p recording and streaming.



1 ATAV Shipping Cost \$4,473.68
Shipping Cost for all equipment



1 BLACKMAGIC HDMI to SDI 6G \$145.00
HDMI to SDI signal converter



1 Blackmagic Design MICRO CONVERTER SDI TO HDMI 12G PSU \$237.66 *
Power supply unit for Micro Converter SDI to HDMI 12G



1 Comprehensive BB-C-3GSDI-6
High Definition 3G-SDI BNC to BNC Cable 6ft



1 Kramer C-MHM/MHM-6
6' flexible high-speed HDMI cable with Ethernet



5 Bryne MHO \$0.00
[OFE] - Surface Mount Modular pop-up ports



1 CABLES TO GO Cat6 24-Port PP \$87.58
24-PORT CAT6 110-TYPE PATCH PANEL



1 CABLES TO GO DB9 Patch \$8.73
DB9 Serial RS232 Extension Cable - Black



5 CABLES TO GO Single Mode OS2 LC/LC patch cables 2M \$131.20
LC-LC 9/125 Duplex Single Mode OS2 Fiber Cable - Yellow - 20ft OS2 Cable - 6 Foot Fiber Cable



200 Cleerline 4D9125SMOS2R-B \$393.36 *
4 Strand 9/125 SSF G657 A2&B2 Indoor



8 Cleerline SSF-LC-SMUPC
Single Mode Ultra Polished Connector

* Price Includes Accessories



1 Cleerline SSF-1RU-E3 \$402.86 *
Rack mount fiber enclosure. 1 RU, 3 adapter plates



2 Cleerline SSF-BLANK
Fiber enclosure blank panel



1 Cleerline SSF-LC12-SM-OS2
Fiber plate (blue) 6 duplex LC connectors for SM OS2 UPC



1 Cleerline SSF-SWM-SOLID-NL-E1 \$195.06 *
Extra small, 1 adapter plate capable, Single Door, No Lock, EMPTY



1 Cleerline SSF-LC12-SM-OS2
Fiber plate (blue) 6 duplex LC connectors for SM OS2 UPC



9 Commscope 1 Port Faceplate Alpine White \$220.32 *
Faceplate Kit, labeled, 1-gang, 1 port, alpine white

9 Commscope 760092361
keystone MGS600 Series Information Outlet, black



1 Comprehensive BB-C-3GSDI-10 \$22.83
High Definition 3G-SDI BNC to BNC Cable 10ft



1 Comprehensive BB-C-3GSDI-6 \$0.00
High Definition 3G-SDI BNC to BNC Cable 6ft



2 Comprehensive DPM-HD4K \$82.90
DisplayPort Male to HDMI Female Dongle 18G 4K@60



1 Denon Professional DN-700R \$0.00
[OFE] - Network SD/USB audio recorder



1 Design Mini PC \$76.45 *
[OFE] - mini computer
















1 Comprehensive DPM-HD4K
DisplayPort Male to HDMI Female Dongle 18G 4K@60

















1 GENERIC USB-ETH
USB to Ethernet adapter






* Price Includes Accessories

	4	Design Mini PC [OFE] - mini computer	\$410.72 *
	4	Comprehensive DPM-HD4K DisplayPort Male to HDMI Female Dongle 18G 4K@60	
	4	GENERIC USB-ETH USB to Ethernet adapter	
	4	Kramer C-MHM/MHM-6 6' flexible high-speed HDMI cable with Ethernet	
	1	Design Mini PC [OFE] - mini computer	\$0.00 *
	1	Design Mini PC [OFE] - mini computer	\$61.23 *
	1	GENERIC USB-ETH USB to Ethernet adapter	
	1	Kramer C-MHM/MHM-6 6' flexible high-speed HDMI cable with Ethernet	
	2	Elite Core SP6 Power Strip 6 Outlets	\$20.88
	3	EPSON PowerLite L730U 7000-Lumen WUXGA Education & Corporate Laser 3LCD Projector (White)	\$14,274.00 *
	3	Chief CMS012018W Adj. Pipe 12 to 18	
	3	Chief RPMA1W Sec rpa elite, key option a, white	
	1	GENERIC CABLE BOX HD cable DVR ,two-tuner,digital video recorders	\$175.70 *

* Price Includes Accessories

	1	Audinate ADP-DAI-AU-2x0 2 line level analog audio to Dante interface	
	1	GENERIC CAT6-PATCH CAT6 Patch Cable	
	2	Hosa Technology GXM-133 RCA to XLR3M Adaptor	
	1	Hosa Technology GXM-133 RCA to XLR3M Adaptor	
	54	GENERIC CAT6-PATCH CAT6 Patch Cable	\$432.00
	300	GENERIC UTP6P CAT6, 250 Mhz (min), 24awg, plenum, no separator, black cable	\$225.15 *
	3	Commscope CAT6 Keystone- Alpine White Uniprise USL Modular RJ45 Jack, CAT6 UTP, w/out Dust Cover, Alpine White	
	3	GENERIC CAT6-PATCH CAT6 Patch Cable	
	3	GENERIC RJ45-CBL RJ45 cable end connector	
	1	GENERIC XLR-06 6' XLR cable	\$8.20
	1	GENERIC XLR-15 15' XLR cable	\$17.68
	2	IO Gear GKM552R Long Range 2.4 GHz Wireless Keyboard and Mouse Combo	\$87.50
	2	JBL LSR305 [OFE] - 5" Two-Way Powered Studio Monitor	\$0.00
	1	Jbl Pro CONTROL 25AV [OFE] - 5.25 2-way w/horn/audio-video version	\$0.00

* Price Includes Accessories

	4	JBL Professional CONTROL 14C/T [OFE] - Two-Way 4" Coaxial Ceiling Loudspeaker	\$0.00
	1	Kramer C-A35M/IRE 3.5mm to single IR emitter cable	\$15.71
	2	Kramer C-MHM/MHM-10 HDMI Cable (Male to Male), Ethernet with Pull Resistant connector - 10'	\$76.00
	10	Kramer C-MHM/MHM-3 HDMI Cable (Male to Male), Ethernet with Pull Resistant connector - 3'	\$231.50
	3	Kramer C-MHM/MHM-6 6' flexible high-speed HDMI cable with Ethernet	\$78.69
	2	LDKCOK 30' USB Extension USB 2.0 Type A Male to A Female Active Repeater Extension Cable 30ft, High Speed 480 Mbps 30FT	\$32.92
	1	LEIGHTRONIX ipMergeNX IPTV and NEXUS Powered Broadcast controller	\$17,326.67
	1	LG Electronics 27UK500-B [OFE] - 27" UHD IPS HDR10 Monitor with AMD FreeSync	\$0.00
	1	Listen Technologies MLD5 [OFE] - MLD5 multiLoop driver (5.0 Amp)	\$0.00
	1	Marshall Electronics ML-702 [OFE] - 7" Rackmountable monitor with 3G-SDI, HDMI, and Composite	\$0.00
	1	Marshall Electronics V-LCD171MD [OFE] - 17.3" Full Resolution 1920 x 1080 Rackmount Monitor With Modular Input	\$0.00
	5	Middle Atlantic U1 1 space (1 3/4) rackshelf	\$232.80
	1	NETGEAR GSM4328PA NETGEAR 24-Port Fully Managed Switch M4300-28G-PoE+/10G 550W (GSM4328PA)	\$2,653.75 *
	2	NETGEAR AXM763 SFP+ Transceiver, 10GBase-LRM for multimode 62.5/125m OM1 or OM2 fiber	
	1	NETGEAR GSM4328PA NETGEAR 24-Port Fully Managed Switch M4300-28G-PoE+/10G 550W (GSM4328PA)	\$2,293.75 *

* Price Includes Accessories



1 NETGEAR AXM763
SFP+ Transceiver, 10GBase-LRM for multimode 62.5/125m OM1 or OM2 fiber

1 NETGEAR M4300-52G-POE+ \$3,471.25 *

48x1G PoE+ Stackable Managed Switch with 2x10GBASE-T and 2xSFP+ 1,000W PSU



1 NETGEAR AXM763
SFP+ Transceiver, 10GBase-LRM for multimode 62.5/125m OM1 or OM2 fiber

1 OFE Radiant VAB700 \$0.00

2 Presonus Audio Box ione \$0.00

[OFE] - PreSonus AudioBox iOne USB Audio Interface



1 PTZ Optics PT-SUPERJOY-G1 \$1,131.76 *

SuperJoy IP & Serial PTZ Camera Joystick Controller



1 GENERIC CAT6-PATCH
CAT6 Patch Cable



4 PTZ Optics PTZ Optics Move 4K 30X - Grey \$9,844.52

PTZ Optics Move 4K, a third generation PTZ camera, featuring 30X Optical Zoom, 4K Resolution at 60fps and a 60.7 HFOV in Grey. Supports simultaneous IP Video (NDI|HX3, SRT, RTMPS, RTSP), USB2.0 and 3G-SDI or HDMI2.0 as outputs with Auto-Tracking capabilities. PoE Power or Included Universal Power Sup



1 QSC CORE 110f \$4,592.27 *

Multipurpose software based digital audio signal processor



1 QSC SL-DAN-32-P
Q-SYS Core Software-based Dante 32x32 Channel License, Perpetual



1 QSC SL-QSE-110-P
Q-Sys Core 110 Scripting Engine Software License, Perpetual



1 QSC SL-QUD-110-P
Q-SYS Core 110 UCI Deployment Software License, Perpetual



1 QSC CX-Q4K8-NA \$4,811.20 *

Processing Amplifier

* Price Includes Accessories



1 QSC QIO-GP8x8 \$376.13
 Q-SYS Peripheral Providing Control Expansion With 8 Logic Inputs And 8 Logic Outputs



1 QSC QIO-IR1X4 \$487.14
 Q-SYS Network I/O Expander



2 QSC QIO-S4 \$839.46 *
 Q-SYS Network I/O Expander



2 CABLES TO GO DB9 Patch
 DB9 Serial RS232 Extension Cable - Black



2 GENERIC CAT6-PATCH
 CAT6 Patch Cable



1 QSC TSC-101-G3 \$2,996.13 *
 High Definition Touch Screen Controller



1 QSC TSC-710T-G3
 Table Top Mounting Accessory For Tsc-70-G3 And Tsc-101-G3



1 QSC TSC-70-G3 \$1,574.80
 High Definition Touch Screen Controller



1 QSC TSC-70-G3 \$1,950.93 *
 High Definition Touch Screen Controller



1 QSC TSC-710T-G3
 Table Top Mounting Accessory For Tsc-70-G3 And Tsc-101-G3

2 SAMSUNG SMT-2232 \$0.00
 [OFE] - 22" LED Monitor

2 SAMSUNG UN55J6200AF \$0.00
 [OFE] - 55" 1080P TV



1 SHURE MXCW640 \$2,039.12 *
 Wireless Conference Unit



1 SHURE MXC420/C
 Gooseneck Microphone, Length 50 cm, single bend

* Price Includes Accessories



1 SHURE MXCW-ACC-M
Mute button for MXCW640



1 SHURE SB930
Rechargeable Battery



11 SHURE MXCW640 \$22,681.67 *
Wireless Conference Unit



11 FONKEN USB 5v2.A Power Supply
5V 2A Power Adapter Universal Charger USB Plug Charger Block



11 SHURE MXC420/C
Gooseneck Microphone, Length 50 cm, single bend



11 SHURE MXCW-ACC-M
Mute button for MXCW640



11 SHURE SB930
Rechargeable Battery



11 STARTECH USB2AUB2RA2M
6 ft Micro-USB Cable with Right-Angled Connectors - M/M - USB A to Micro B Cable



1 SHURE MXCWAPT-A \$4,052.86
Access Point Receiver



2 SHURE MXCWNCUS-US \$2,431.42
Networked Charging Station



1 SHURE P300-IMX \$1,850.00
Audio Conferencing Processor audio signal processor



1 SHURE ULXD4D \$5,348.38 *
ULXD4D DUAL WIRELESS RECEIVER



2 SHURE SB900A
LITHIUM-ION RECHARGEABLEBATTE

* Price Includes Accessories



1 SHURE SBC200-US
Dual docking charger with power supply



2 SHURE UA8
Shure UA8 1/2 wave antenna (specific frequency must match device)



1 SHURE UA8100
UHF Remote Antenna Extension Cable, BNC-BNC, RG213/U Type, 100 feet



2 SHURE UA834WB
Shure In-Line Antenna Amplifier for Remote Mounting (470-902 MHz)



1 SHURE UA850
50 UHF remote antenna extension cable, bnc-bnc, rg8x/u type



2 SHURE ULXD2/SM58--H50
ULXD2 WIRELESS HANDHELD W/SM58 HEAD



1 SMART AVI SM-DPN-4Q \$1,218.75
4 Port Quad-head Displayport KVM Switch with Keyboard/Mouse/USB 2.0 and 4 Monitors - 4k 60Hz



1 Visionary Solutions D4200 \$1,166.86 *
Network Based Video Decoder
4K UHD over IP



1 GENERIC CAT6-PATCH
CAT6 Patch Cable



1 Kramer C-MHM/MHM-3
HDMI Cable (Male to Male), Ethernet with Pull Resistant connector - 3'



7 Visionary Solutions D4200 \$8,229.13 *
Network Based Video Decoder
4K UHD over IP



7 CABLES TO GO DB9 Patch
DB9 Serial RS232 Extension Cable - Black

* Price Includes Accessories



7 **GENERIC CAT6-PATCH**
CAT6 Patch Cable



7 **Kramer C-MHM/MHM-3**
HDMI Cable (Male to Male), Ethernet with Pull Resistant connector - 3'



1 Visionary Solutions DuetD-2 **\$1,331.57 ***
4K UHD over IP Analog and Dante/AES67 Audio, RS-232, GPIO, IR over IP Decoder



100 **GENERIC 1PS-P**
22 awg single pair shielded mic cable - plenum rated



1 **GENERIC CAT6-PATCH**
CAT6 Patch Cable



1 Visionary Solutions DuetE-2 **\$1,278.57**
4K UHD over IP Analog and Dante/AES67 Audio, RS-232, GPIO, IR over IP Encoder



11 Visionary Solutions E4200 **\$12,492.81 ***
4K UHD over IP Analog and Dante/AES67 Audio Rs232, GPIO, IR over IP



1 WolfVision VZ-8PLUS4 **\$0.00**
[OFE] - VZ-8 series desktop visualizer

Unassigned Total

\$141,653.71

Video System



1200 GENERIC UTP6P-AV **\$560.04**
CAT6, 250 Mhz (min), 23awg, 4 pair solid, no separator, plenum, GREEN

Video System Total

\$560.04

* Price Includes Accessories

Audio System



300 **GENERIC SPC-14-2-P**
[OFE] - 14 awg plenum install speaker cable

\$0.00

Audio System Total

\$0.00

Project Subtotal:

\$142,213.75

* Price Includes Accessories

PROJECT SUMMARY

Equipment:	\$142,213.75
Labor:	\$47,788.50
Sales Tax:	\$3,787.85

Grand Total: **\$193,790.10**

Client:

Date

Contractor: **A-Town AV Inc.**
1011557

Date