

Minutes of a Meeting of
SERVICES, UTILITIES AND EQUIPMENT REPLACEMENT COMMITTEE

held October 12, 2015

7:00 p.m.

Present: Councilman Paul Vincent, Chairman
Councilman Dave Tadych
Councilwoman Karen Lieske

Also Present: Finance Director Mahoney, Councilman Clark, Councilman Lee, Councilman Henderson, Fire Chief Lyons

Audience: Richard Fink, Marty Mace, Lydia DeGeorge, Alex Dade, Clare Banasiak, Conda Boyd

Councilman Vincent called the meeting to order at 7:00 p.m. and thanked everyone for their attendance.

Microphone Project

Finance Director Mahoney has recommend the Jefferson Audio Video Systems, Inc. (JAVS) system of microphones and speakers for the Committee Room and Council Chambers. Mr. Vincent stated that Alex Dade of the League of Women Voters, the sponsors and donators of the project, and Mr. Vincent had a conference telephone call with JAVS regional sales representative, Mr. Lee Cecil.

Mr. Vincent distributed copies of the fact sheets of the equipment that is provided in accordance with their quotation. (Exhibit A attached).

A hand-held wireless microphone is a hand-held microphone for someone in the audience or someone who wants to stand at the podium. A lapel microphone is also offered for a speaker that wants to walk and speak to the audience. Discussion followed about the necessity of having a permanent microphone in the podium. Mr. Dade suggested a mount in the podium that would hold a wireless microphone. Each microphone is between \$400 and \$500.

Mr. Dade stated that the system can be extended later to include video without adding a lot of additional equipment. It would just require a software upgrade. Also, if more microphones were to be added at some point, that can be done without additional equipment.

The microphones for the Committee room will be mounted on the table. They have lights on them to indicate whether the recording is going on or not. In the Council Chambers, there would be one microphone in front of every member of Council, one in front of the Mayor, one in front

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of the Law Director, and one in front of the Clerk. These are also mounted on the table. The microphones are lighted to indicate when they are recording.

Mr. Vincent noted that the microphones for the Committee room will be permanent mountings which is of some concern to the Mayor. He is seeking further information from the sales representative about some modification that could take place to help with those concerns.

Mr. Dade stated that the whole system is controlled either by a tablet or PC, which is on the Wi-Fi network. But you can also turn on and off the recording in this room without access to the tablet or PC, through a button on the microphone.

Mr. Vincent related that JAVS has done about 350 courts in just the State of Ohio alone. These light indicators are used all the time in those capacities, and fits the needs of the court to keep certain things confidential.

Mr. Dade noted that the ability to control the microphones without a tablet. If there is an evening meeting, the Clerk doesn't necessarily have to be there. The recording will take place and the Clerk can do the minutes from the recording, allowing greater flexibility.

Mr. Henderson asked if there will need to be holes drilled in the table and wires run underneath the carpet. Mr. Dade stated that this would be the case, but the wires would be run in the air return chamber between the floor and the drop ceiling downstairs.

The microphones in the table will be adequate to pick up everything in the room. The mixers will prevent any overlap. They are full duplex microphones: a microphone and speaker at the same time.

Mr. Tadych asked if any Council is using the system. Mr. Dade stated it is primarily a court-used system. He will check with JAVS to see if they have supplied any city councils.

Mr. Dade stated that not included in the quotation is the tablet for the PC. The League of Women Voters is willing to add that.

Training is included. The software discriminates between microphones. Mr. Vincent noted that there is a voting function included in the microphones.

Mr. Henderson asked about the data file to stream the recording to the internet. It is an MP3 file which is used now for the internet.

Mrs. Lieske asked how long the recordings are kept. Mr. Vincent stated that this would be a function of the City to decide and place on a records retention schedule. Mr. Dade stated that it is a policy decision, but if you wanted to keep the recordings forever you could take a certain block of them and transfer them to a DVD. One of the questions asked was if the City has a Storage Area Network which is a large storage machine which just stores files. If the City were to keep them forever, something like that would be necessary. Mr. Henderson stated that it

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might make sense to consider a formal records retention policy so we don't put ourselves in the situation where we are at risk for having to supply something that is 15 years old.

Mr. Dade stated that if the City approves the proposal of JAVS, the League of Women Voters will have a meeting of their membership to revise their budget to change the amount of the donation.

Mr. Tadych stated that anything technical becomes dated. He asked the age of the system. Mr. Dade stated that it is typically software driven. There is a support contract involved. It is an annual contract that gives software updates as the manufacturer issues them. The amount of the annual contract will be verified with JAVS.

Mr. Vincent noted that there is an additional capability of teleconferencing. An out of town presenter would not necessarily have to travel to Bay Village for his presentation. The system has a conference capability that everyone in the room can hear. There is a connection between the telephone system and the JAVS system. The presenter can call in, be transferred to that extension that serves for that purpose, and can talk to everyone in the room as if they were there.

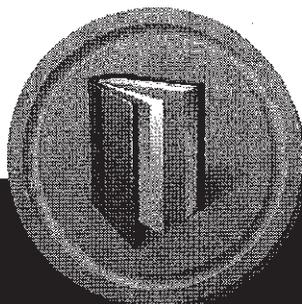
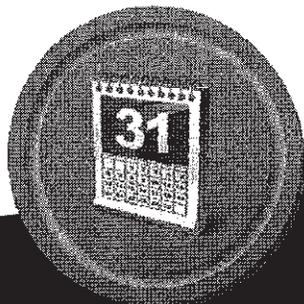
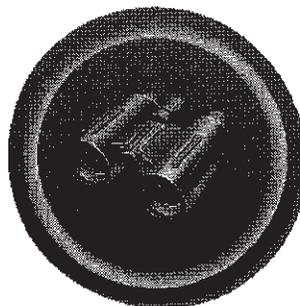
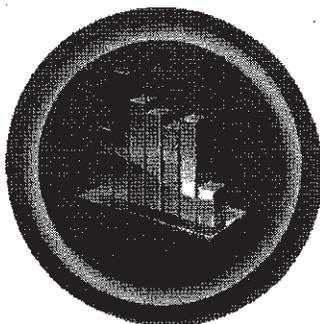
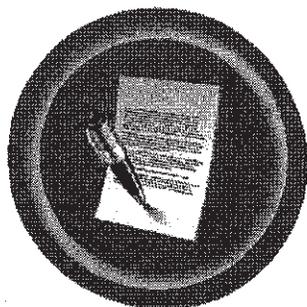
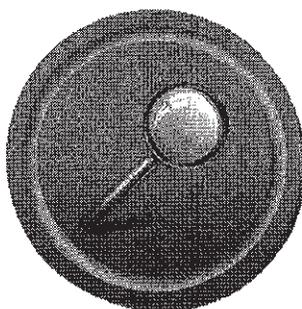
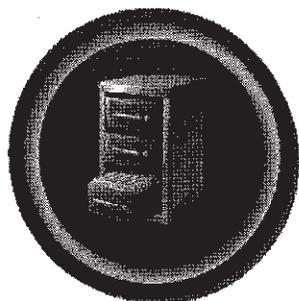
Mr. Vincent thanked everyone for their attendance and cooperation. The meeting adjourned at 7:24 p.m.

Paul Vincent, Chair

Joan Kemper, Secretary

JAVS

Jefferson Audio Video Systems, Inc.

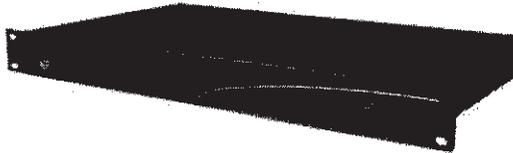


JAVS Suite 7
digital capture system

JAVS Suite 7 encompasses all of the software and hardware required for professionals to create, manage, publish, and view the complete, permanent record of typical meeting scenarios, including courtroom proceedings, business meetings, and classroom settings.

Even experienced users will be pleased with the new features offered by JAVS Suite 7.

GET CENTERED WITH CENTRO



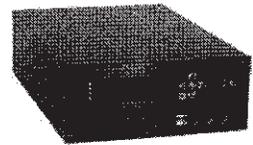
At the core of the JAVS Suite 7 is the new Centro Audio/Video Processor, an Ethernet controlled audio and video switching system capable of scaling from 8 microphone inputs and a single camera to 14 microphone inputs; 4 additional audio inputs; 8 camera inputs; 2 additional video inputs; and 6 mutable, configurable audio/video outputs.

With Centro, instead of using expensive Pan/Tilt/Zoom cameras to cover each participant in the room, each person is covered via an individual microphone and camera; when a person speaks, the video automatically switches to the assigned camera. No operator is necessary to have a natural, smooth looking audio/video production.

Not only does Centro provide extra inputs for Video Conferencing, Presentation, Audio Conferencing, and Interpretation, it also provides outputs for Public Address, Remote Locations, Recording, Security, Assistive Listening or any other configurable destination.

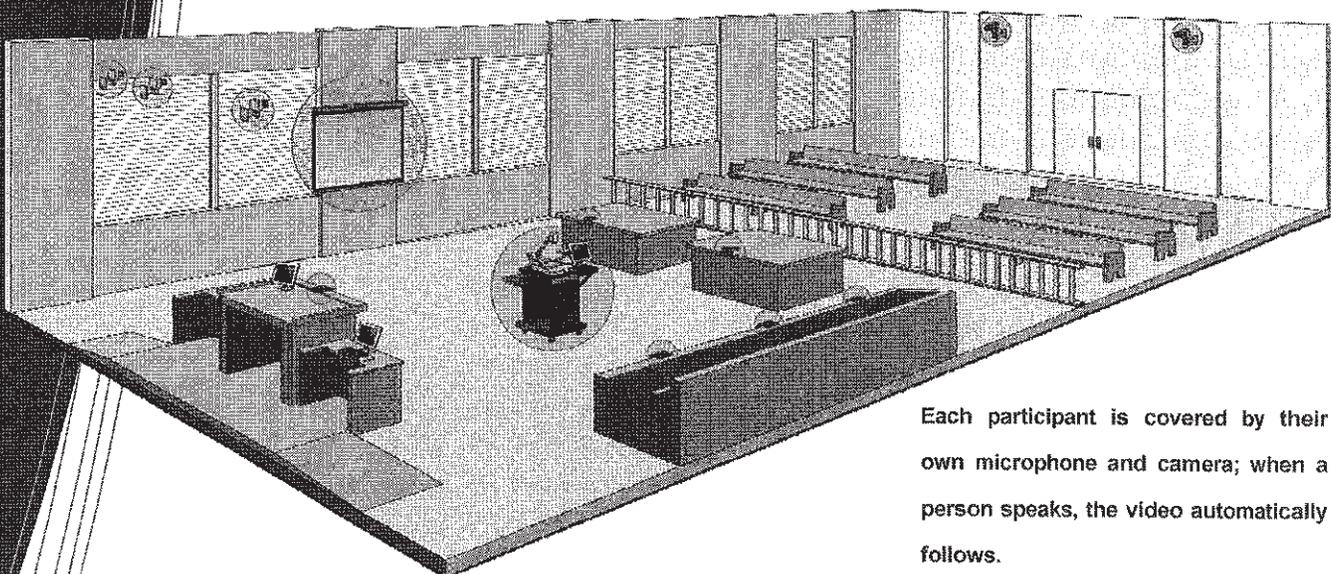
RECORDER 7

Recorder 7, a network enabled, hardware recording appliance designed specifically for Audio/Video recording, connects directly to the Centro Audio/Video Processor and captures the live meeting in a secure, standards-based, digital multimedia file.



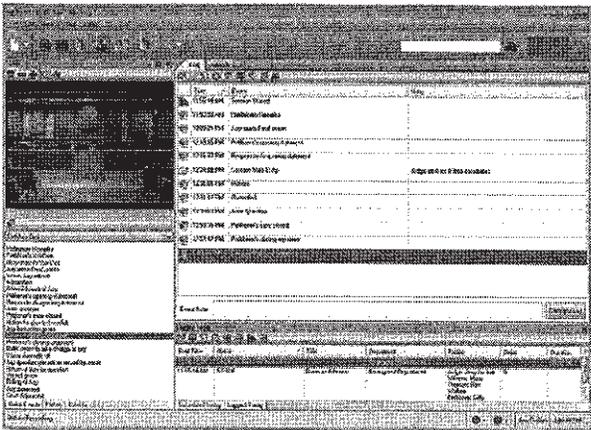
REVIEW 7

Built on the same hardware as **Recorder 7**, **Review 7** is designed specifically to display high quality audio/video recordings on any VGA or Video Monitor. Once connected to a Display Source, Users can find a specific Audio/Video segment from any **AutoLog 7** or **ControlCenter 7** device on the network and display the AV file through **Review 7**.



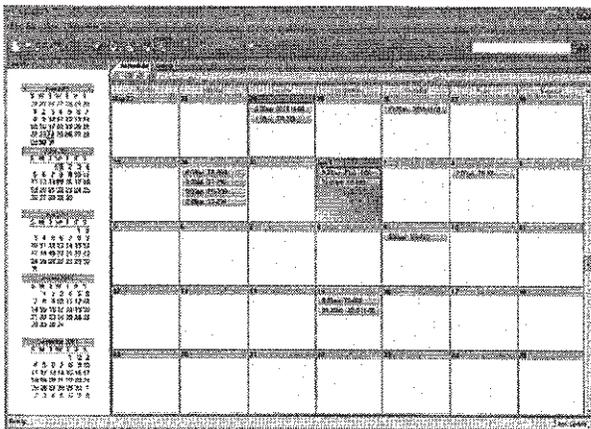
Each participant is covered by their own microphone and camera; when a person speaks, the video automatically follows.

AUTOLOG 7



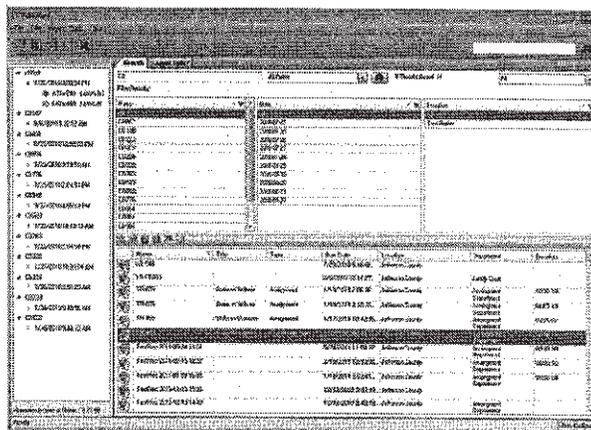
AutoLog 7 can be used to start and stop Recorder 7 from any computer on the network, assigning a name to each Record Session. AutoLog 7 can also create a log of events for each Record Session, complete with a date and time stamp and multiple public or private notes for each event, party information of the people involved, and the set of exhibits used during the meeting. AutoLog 7 also provides control and monitoring functions of both the Recorder and the Audio/Video Processor, including audio levels and record indication.

SCHEDULER 7



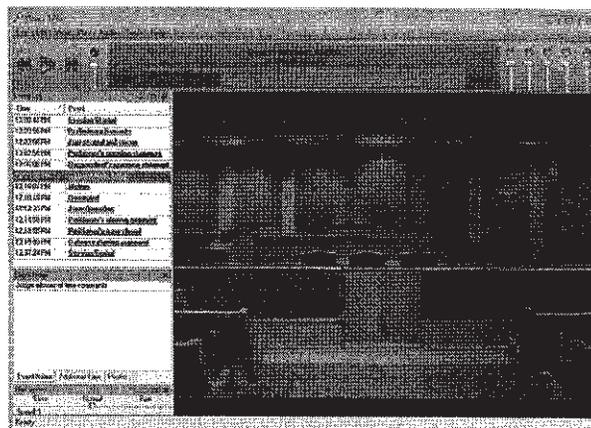
Scheduler 7 is used to schedule all Record Sessions for a specific date or location, from any network connected PC. Schedules can be copied or moved to any date and will automatically be displayed in AutoLog on the date of the scheduled Record Session.

PUBLISHER 7



After recording has concluded, Publisher 7 is used to create a catalog of the Session Files and publish them to a new location, either an optical disc or a drive on the network. Additionally, Publisher 7 has a wide array of reports available for Session logs, parties, and exhibits. Publisher also includes the ability to Post-Log Sessions after they have been created.

VIEWER 7



Viewer 7 is provided to view all Record Sessions in a simple, easy to use interface designed to display the events, Audio/Video, and any additional files included in the meeting. Clicking on any event will take you directly to the corresponding time in the audio/video file.

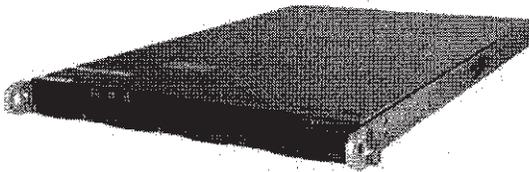
VIEWER 7 PRO

Viewer 7 Pro enables all of the necessary features required for a Transcriber, including foot pedal controls, file editing controls, speed controls with automatic pitch correction, and saved progress controls.

SERVER 7

Server 7 is a software based enterprise database management solution designed to connect all JAVS 7 Suite products across the network, enabling the extra Enterprise Features of the JAVS 7 Suite for the end user. **Server 7** allows Centralized Session Information, Scheduling, and Shared Users and Groups for all JAVS Systems connected on the Network and is ideal for installations that already have their own SQL Servers and their own IT Staff to manage their systems.

SERVER 7 APPLIANCE



Server 7 Appliance is a preconfigured, software and hardware based enterprise database management solution designed to run the JAVS **Server 7** as a network appliance. In addition to the features of the **Server 7** software, **Server 7 Appliance** includes two enterprise-grade, server-class hardware units to store the JAVS Database in one central location for greater management of redundancy, failover, and backup.

BOOKSHELF 7

Bookshelf 7 is a Session Archive solution designed specifically for JAVS Suite 7. With **Bookshelf**, all Session files on a **Recorder 7** device are automatically copied from the Recorder to the **Bookshelf** server and all links in the Suite 7 database are updated to point to the **Bookshelf** server instead of the Recorder. This allows the Recorder to automatically delete older Session files when the hard drive begins to fill up while still enabling users to find their data at a later date. **Bookshelf** integrates with any 3rd party File Server and can be configured to run nightly, weekly, or as soon as a file has finished recording.

FINDER 7

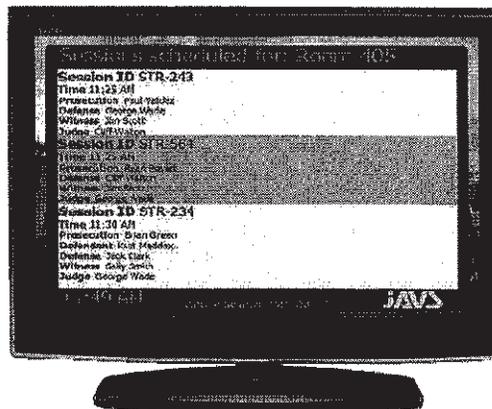
Available only on Enterprise Systems that include **Server 7**, **JAVS Finder 7** is a Web Based Search Utility designed specifically to interface with the JAVS 7 Suite. **Finder 7** includes Search Tools to help Users locate the desired Record Sessions in order to View the Sessions from any PC on the Network.

CONTROLCENTER 7

ControlCenter 7 is a touch screen control interface allowing the start and stop of Sessions, control of the Centro Audio/Video Processor, and control of the room environment, including presentation controls and lighting controls. **ControlCenter 7** gives Users the ability to interact with the System without the need of a keyboard or mouse.



SIGNAGE 7



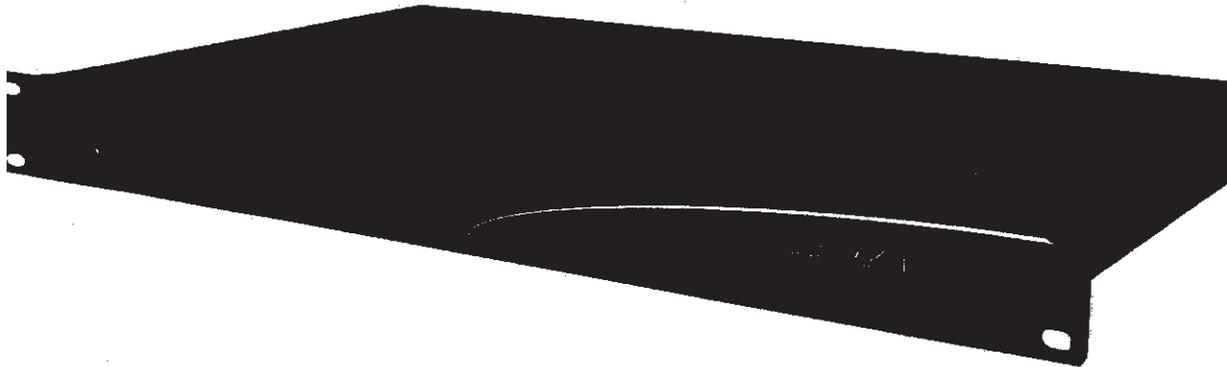
Signage 7 is a software and hardware solution intended to display Schedules on a professional display monitor. **Signage 7** displays the Schedules of a given Location for the current Date in either Landscape or Portrait Mode on a 4:3 ratio or 16:9 ratio screen. Simply change a schedule in **Scheduler 7** and the updated information is automatically displayed.



Jefferson Audio Video Systems, Inc.
13020 Middletown Industrial Blvd.
Louisville, KY 40223
800.354.JAVS
www.javs.com

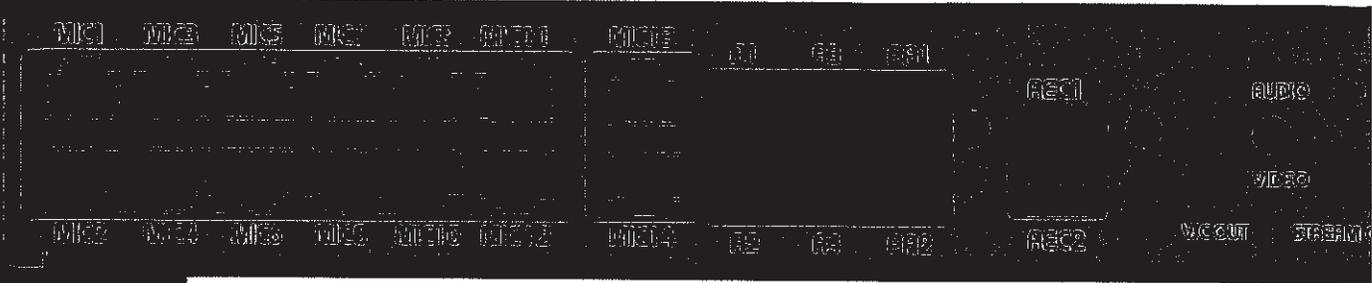
JAVS[®]

Jefferson Audio Video Systems, Inc.



audio video

The JAVS Centro Audio Video Processor is designed to manage all of the Audio/Video needs of any classroom, courtroom, or other meeting room application, including Public Address, Video Conferencing, Digital Recording, Interpretation, and Presentation.



GET CENTERED

With Centro, instead of using expensive Pan/Tilt/Zoom cameras to cover each participant in the room, each person is covered via an individual microphone and camera; when a person speaks, the video automatically switches to the assigned camera. No operator is necessary to have a natural, smooth looking audio/video production.

Not only does Centro provide extra inputs for Video Conferencing, Presentation, Audio Conferencing, and Interpretation, it also provides outputs for Public Address, Remote Locations, Recording, Security, Assistive Listening or any other configurable destination.

PUBLIC VS PRIVATE

With the touch of a button, Centro can mute all Public audio and video outputs whenever a Private conversation is taking place.

AUTOMATIC AUDIO MIXER

Centro includes an automatic audio mixer for each output to prevent any audio from being lost.

DYNAMIC ADAPTIVE THRESHOLD

If a loud air-conditioning vent or traffic noise is located close to a microphone, Centro disregards these "noises" and continues to switch as programmed.

MICROPHONE PROXIMITY AWARENESS

If a speaker physically moves from one microphone to another, Centro automatically detects which microphone is closest and adjusts the gain accordingly.

SHARP NOISE REJECTION

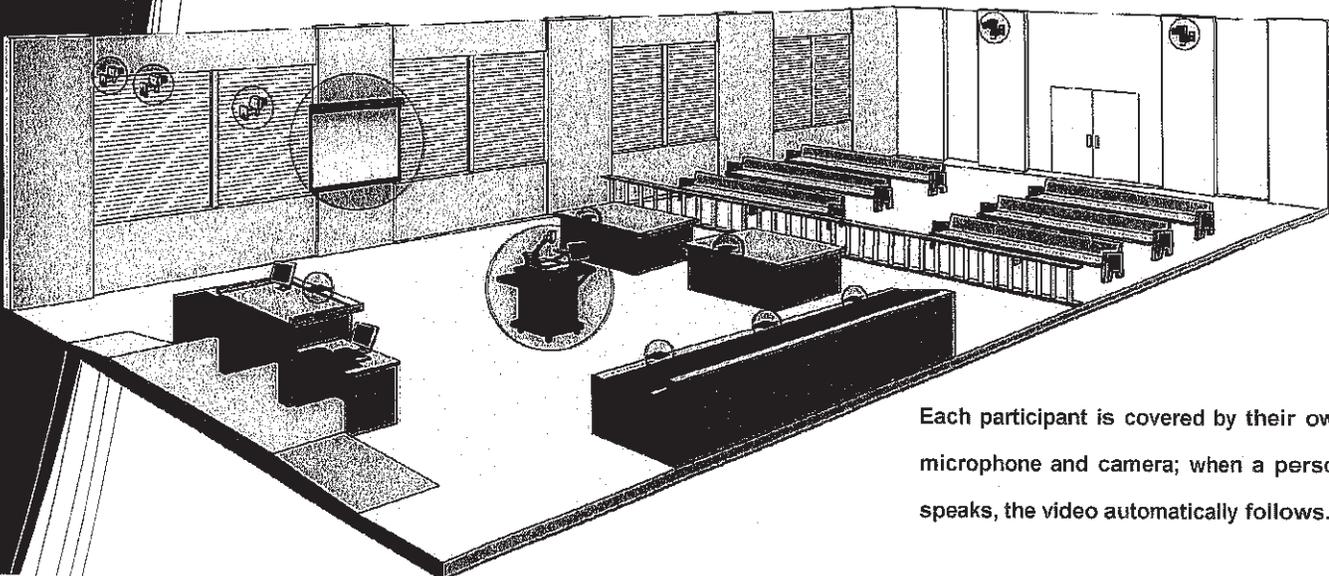
Sounds such as coughs, sneezes and dropped books are ignored, eliminating false video switching.

SOUND MASKING

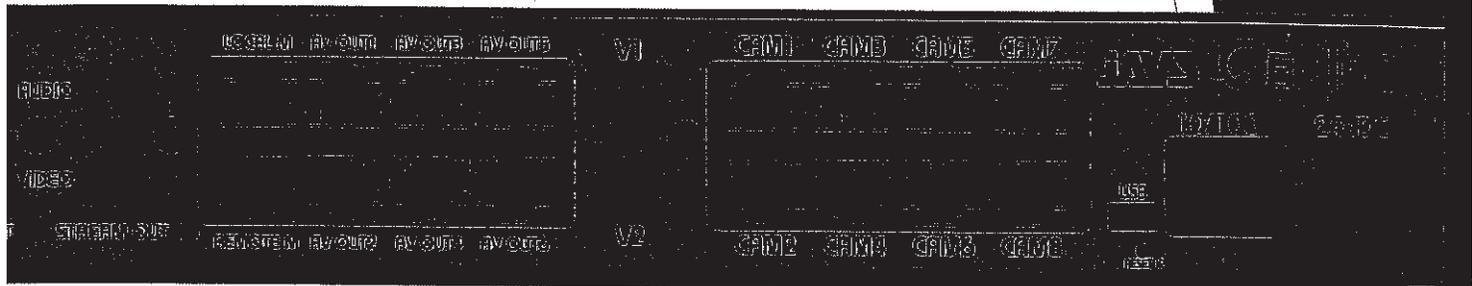
When a Private conversation is required, Centro can output White or Pink noise over up to 8 independent audio outputs.

VIDEO CONFERENCE INTEGRATION

Optional dedicated Inputs and Outputs are available for Video Conferencing integration, allowing the Centro to take the place of the inadequate built-in Audio/Video solutions of most Video Codecs.



Each participant is covered by their own microphone and camera; when a person speaks, the video automatically follows.



PRESENTATION MODE

The optional Presentation Mode allows a Presentation source to be automatically routed to a Local Monitor for display to an audience.

DYNAMIC AUDIO/VIDEO OUTPUTS

Optional Dynamic Outputs allows the user to configure what audio and Video source they want to see and hear. Moreover, each Dynamic Output can be muted whenever a Private Mode is enabled.

1-WAY, 2-WAY, AND 3-WAY CONFERENCING

High-end Centro can be configured for up to 3 different types of conferences: 1-way conferences, where one side of the conversation is pushed out to other rooms; 2-way conferences, where two different rooms can interact with each other; and 3-way conferences, where up to 3 separate rooms can all participate together in a single conversation.

LEXMICROPHONE INTEGRATION

Centro's tight integration with the JAVS FlexMicrophone is a key component to Centro's innovative approach to Audio/Video management. Tri-colored Indicator Lights allow the Centro to inform the User if the system is in Record Mode, Private Mode, or if an error has occurred. Centro can automatically switch the function of the programmable push button to Push to Mute, Push to Talk, Hold to Mute, or Hold to Talk. The push button could even be configured for any 3rd party application as well.

ETHERNET CONTROLLABLE

Centro can be both configured and controlled via TCP/IP, allowing any authorized software application to have access to Centro's capabilities from anywhere on the network.

SCALABILITY

Centro can scale from a small room with 8 microphones and 1 camera all the way to 18 audio inputs and 10 video inputs — all within the same unit!

CENTRO A - 8 Microphones; 1 Camera; 2 Zoning PA Outputs

CENTRO B - 8 Microphones; 4 Cameras; 2 Zoning PA Outputs; 1 Videoconference Input/Output; 1 Presentation Input; 1 Local Monitor Output

CENTRO C - 14 Microphones; 8 Cameras; 2 Zoning PA Outputs; 1 Videoconference Input/Output; 1 Presentation Input; 1 Audio Conference Input; 1 Interpretation Input; 1 Local Monitor Output; 1 Remote Monitor Output; 6 Configurable, Mutable A/V Outputs



Specifications

Amount of inputs:	18
Input Connectors Active Balanced:	
RJ45	14
3pin block terminal	4
Input Impedance (balanced)	1970 Ohm +/-5% @ 1KHz @0dbu
Maximum Input Level (balanced)	8.24dbu (2Vrms) @ THD+N <0.01% @ 1KHz
Input CMRR	>70db @20Hz-20KHz
Amount of outputs:	19
Outputs Types:	
Block Terminal Active Balanced	2
HDMI Active Balanced	2 (x2 via internal ADA)
HDMI Active Unbalanced	5 (x2 via internal ADA)
RCA Active Unbalanced	2
RJ45 Active Balanced	8
Output Impedance:	
Balanced	100 Ohm +/-2% @ 1KHz
Unbalanced	50 Ohm +/-2% @ 1KHz
Maximum Output Level:	
Balanced	11dbu (2.8Vrms) @ THS+N <0.05% @ 1KHz
Unbalanced	5dbu (1.38Vrms) @ THS+N <0.1% @ 1KHz
Channel Gain (In/Out)	0db +/-0.2db @40Hz - 16KHz
Signal to Noise Ratio (SNR)	
Balanced	>90db Re: Vin=8dbu, 20Hz-20KHz
Unbalanced	>80db Re: Vin=8dbu, 20Hz-20KHz
Frequency Response	
40Hz - 16KHz	+0/-0.2db @ Input levels -40 ~ +8dbu
20Hz - 20KHz	+0/-2db @ Input levels -40 ~ +8dbu
THD+N	
Balanced Outputs	< 0.02% @ 0 dbu, 1 kHz, WTD 20Hz-20 kHz BW
Unbalanced Outputs	< 0.1% @ 0 dbu, 1 kHz, WTD 20Hz-20 kHz BW
MD	< 0.05% @ 0dbu, 60Hz/7KHz, 0dbu, ratio 4:1
Input/ Output Linearity	<0.02db @-60dbu - +8.239dbu/20Hz-20KHz, BW 20Hz-20KHz,
Crosstalk	<90db @1KHz @ 8.239dbu, any channel

Amount of Inputs:	10
Input Connectors:	
RJ45	8 (Balanced)
RCA	2 (Unbalanced)
Input Impedance:	
Balanced	100Ohm +/-2%
Unbalanced	75Ohm +/-2%
Nominal Input Level	1Vp-p (100IRE)
Input CMRR (for balanced inputs)	>60db @50Hz-6MHz
Amount of outputs:	11
Outputs Types:	
RJ45 Active Balanced	8
HDMI Active Unbalanced	1 (x2 via internal VDA)
RCA Active Unbalanced	2
Nominal Output Level	1Vp-p (100IRE) / Terminated
Output Impedance:	
Balanced	100Ohm +/-2% @1MHz
Unbalanced	75Ohm +/-2% @1MHz
Differential gain	<0.4% @3.58MHz
Crosstalk	<40db @ 4MHz, any channel

Power Requirements:	24VDC
Power Consumption:	
No external devices attached:	15 Watts
All devices are attached:	90 Watts
Dimensions:	44.5 x 482.6 x 304.8 mm/1.75 x 19.00 x 12 in.
Weight:	4400 grams/9.7 lbs.

Features

- 1 Camera Input (RJ45)
- 8 Microphone Inputs (RJ45)

- 4 Camera Inputs (RJ45)
- 8 Microphone Inputs (RJ45)
- 1 Videoconference Video Input (RCA)
- 1 Videoconference Audio Input (Phoenix Block)
- 1 Presentation Video Input (RCA)
- 1 Presentation Audio Input (Phoenix Block)
- 1 Mutable, Local Monitor Audio/Video Output with Configurable Clock On-Screen Display (RJ45)
- Built-in Videoconference Mode, Presentation Mode

- 8 Camera Inputs (RJ45)
- 14 Microphone Inputs (RJ45)
- 1 Videoconference Video Input (RCA)
- 1 Videoconference Audio Input (Phoenix Block)
- 1 Presentation Video Input (RCA)
- 1 Presentation Audio Input (Phoenix Block)
- 1 Audio conference Audio Input (Phoenix Block)
- 1 Interpretation Audio Input (Phoenix Block)
- 1 Mutable, Local Monitor Audio/Video Output with Configurable Clock On-Screen Display (RJ45)
- 1 Mutable, Remote Monitor Audio/Video Output (RJ45)
- 6 Mutable, Configurable Audio/Video Outputs (RJ45)
- Built-in Videoconference Mode, Presentation Mode, Audio Conference Mode, Interpretation Mode, Remote 1 Conference Mode, Remote 2 Conference Mode

- 1 Internal Video Source—Blue, Green, or Black Screen
- 2 Zoning PA Outputs - With or Without White/Pink Noise (Phoenix Block)
- 2 Stereo A/V Record Outputs (Custom HDMI)
- 5 Configurable Multichannel Audio Outputs (Custom HDMI)
- 1 System Video Output (RCA)
- 1 Mono System Audio Output (RCA)
- 10/100 Ethernet Connector (RJ45)
- Up to 16 System Modes
- Independent Camera Locks
- Configurable Camera/Microphone Failure Notification
- Configurable On-Screen Displays for Record Out, Videoconference Out, Local Monitor Out, and Private Out

JAVS

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QUOTE # JAVQ31784C

Date
10/06/15
Specialist
Lee Cecil

Quote To:

Ship To:

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Renee Mahoney
350 Dover Center Road
Bay Village, OH 44140-

Phone: (440)871-2200
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Quote provides JAVS "Centro TX" digital audio recording system, for Bay Village Council Room. Proceedings are captured via Microsoft Media Encoder, WMV files for storage to disk and archive to CD-R or other media/export. Autolog7 with Primary Digital Recorder 7.

Remote room option with control box using Chambers feature for adjacent conference room recording.

Wireless lavalier mic for podium presenter and handheld for council chambers use.

Qty	Part #	Description	Unit Price	Ext. Price
		OH City of Bay Village Council Room Centro TX AutoLog 7 (14) Channell Audio only Recording System with Control Box		
		AUDIO/VIDEO PROCESSOR		
1	JAV-CENTRO-TX	"Centro TX"- Base Unit plus Centro TX software (Does not include Cameras or Mics) - 14 Microphone Inputs; - 1 Audio Conference Input/Output - 2 Zoning PA Outputs; 1 Local Monitor Output; 6 Non-Configurable A/V Outputs Centro Power Supply	\$3,500.00	\$3,500.00
		EQUIPMENT RACK & POWER		
1	JAV-DTRK1218	12 RU Desktop Cabinet 18" Deep (No Doors)	\$419.00	\$419.00
1	JAV-JG8	JAVS Slim Line Power Strip and Conditioner	\$95.00	\$95.00
1	JAV-UTR1	Half-depth, single rack space shelf	\$42.00	\$42.00
		PA SYSTEM		
1	JAV-AFS	DBX Dual Channel Advanced Feedback Suppression Processor	\$499.00	\$499.00
1	JAV-240Z	JBL 2 Channel 40W per Channel with 70V & 100V Speaker Output	\$395.00	\$395.00

All orders are subject to signed acceptance of JAVS Standard Terms and Conditions, Sales Contract Agreement, Limited Warranty Statement and Software Limited Agreement as applicable. All pricing is valid for 30 days from issue of quote.

Qty	Part #	Description	Unit Price	Ext. Price
SPEAKERS				
4	JAV-2830	2 X 2 Drop in Ceiling Tile Speaker System W/ Co-axial spkr, enclosure and rotary switch	\$150.00	\$600.00
MICROPHONES				
13	JAV-JM14	JAVS FlexMic with Multicolor LED and Touch Button (2 Conference Room, 11 Council Room)	\$280.00	\$3,640.00
12	JAV-PLX-CB	C Shaped Desk Top Plexiglass Mount for JM11 Flex Microphone	\$20.00	\$240.00
1	JAV-PLX-SL	Short L Plexiglass Shelf for JM11 Flex Microphone	\$20.00	\$20.00
1	JAV-CMC4	JAVS Mic Combiner for the number of FlexMics connected to an Input. - All FlexMics connected operate as a single input.	\$140.00	\$140.00
2	JAV-CENTRO-MP A	Centro Microphone Pre-Amp Adapter Required to Connect an Existing Mic	\$120.00	\$240.00
1	JAV-2129	ATW-R2100 Receiver and ATW-T210 UniPak Transmitter with AT829cW Lavalier Microphone.	\$475.00	\$475.00
1	JAV-2120	Handheld Wireless Mic system ATW-R2100 Receiver and ATW-T210 Handheld Unidirectional Dynamic Microphone/Transmitter. (conference room) Includes AT8456a Quiet Flex Stand Clamp	\$475.00	\$475.00
CONTROL BOX				
1	JAV-RC7	JAVS Centro Universal Control Box	\$450.00	\$450.00
1	JAV-TPE-115GI	Gigabit POE Injector	\$74.00	\$74.00
AUTOLOG & DIGITAL RECORDERS				
COUNCIL WILL PROVIDE WORKSTATION FOR SUITE 7 SOFTWARE RECOMMENDED REQUIREMENTS: Windows 7 or greater Microsoft .NET Framework 3.5 SP1 Pentium Core2Duo 2GHZ equivalent or better 2GB RAM 5GB HDD space 10/100/1000MB Network Adapter ATI Radeon Graphics Adapter				
1	JAV-SW-AL7S	"AutoLog 7" Record Session Logging and Control Software	\$665.00	\$665.00
1	JAV-Q7401	Video Encoder with Audio	\$450.00	\$450.00
1	JAV-REC7-SS	"Recorder 7 Standard" Audio/Video Recording Device with Stereo Audio Recording	\$2,660.00	\$2,660.00
1	JAV-GS108	8 Port 10/100/1000 Fast Ethernet Gigabit Switch w/Auto Uplink	\$103.00	\$103.00
1	JAV-REC7-SRMK	"Recorder 7" Single Rack Mount Kit	\$70.00	\$70.00
WIRE & CONNECTORS				
300	JAV-CAT5P	CAT 5E Cable (Plenum)	\$0.35	\$105.00
100	JAV-25224B	18 Gage Stranded Speaker Cable, Plenum Rated Also used for Camera Power	\$0.25	\$25.00
1	JAV-MISC	Misc. Hardware for Installation (Examples - Wall Plates, Wiremold, Floor Boxes)	\$75.00	\$75.00

All orders are subject to signed acceptance of JAVS Standard Terms and Conditions, Sales Contract Agreement, Limited Warranty Statement and Software Limited Agreement as applicable. All pricing is valid for 30 days from issue of quote.

Qty	Part #	Description	Unit Price	Ext. Price
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SHIPPING & LABOR

1	JAVSLABOR	Labor for Setup & Installation	\$2,300.00	\$2,300.00
1	SHIPPING	Shipping	\$200.00	\$200.00
SubTotal				\$17,957.00

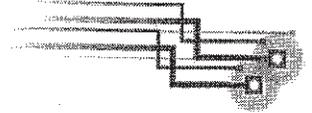
SubTotal	\$17,957.00
Sales Tax	\$0.00
Delivery	\$0.00
Total	\$17,957.00

HLC

Sincerely,



Lee Cecil



Designed with the greatest flexibility in mind, the FlexMicrophone provides much more than an ordinary microphone.

Description

The JAVS FlexMicrophone is a high quality professional boundary microphone with a host of software programmable features designed for the JAVS Centro Audio/Video Processor (AVP), including: customizable colored light indicators; a configurable, feather-touch push button; and programmable microphone patterns.

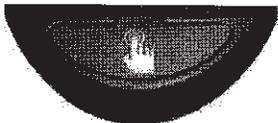
Tri-Colored, Programmable Indicator Lights

The JAVS FlexMicrophone comes equipped with 2 tri-colored LED indicators that can be switched between the colors red, yellow, and green to indicate any type of event that is currently underway. Each microphone can be configured independently of other microphones, allowing the integrator to choose which microphone should provide notifications to the user. In addition, each microphone can be configured to flash any of the three built-in colors at variable speeds.



Programmable Button

The JAVS FlexMicrophone includes a configurable, feather-touch push button to provide a wide range of integration options. The touch-capacitive switch can be programmed as a Push Once to Talk, Hold to Talk, Push Once to Mute, or Hold to Mute. Moreover, since the microphones are connected to the Centro Audio/Video Processor, each microphone can be addressed individually via Centro AVP to integrate with any third party application.

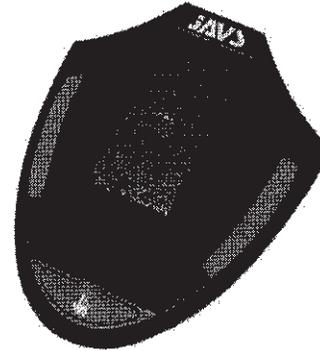


Programmable Microphone Patterns

Each FlexMicrophone can instantaneously switch between any stored microphone pattern, including Omnidirectional, Subcardioid, Cardioid, Supercardioid, Hypercardioid, and Bidirectional patterns.

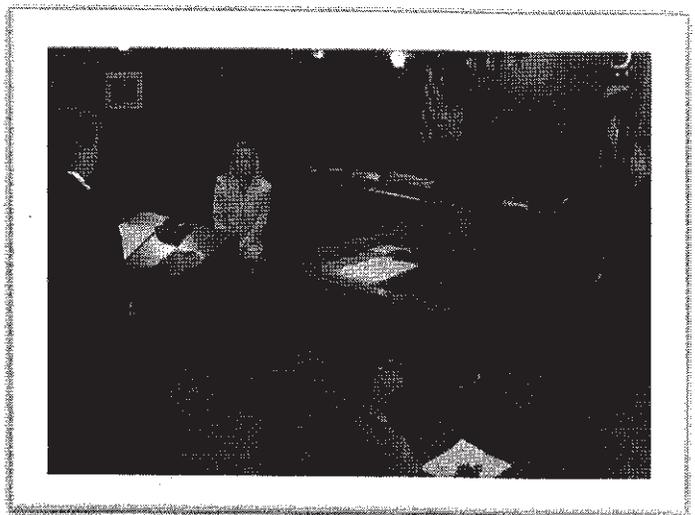
CAT 5 cable connectivity

The JAVS FlexMicrophone's innovative design utilizes a standard RJ45-type connector to connect audio, serial controls, and power via CAT5 cable.



Features

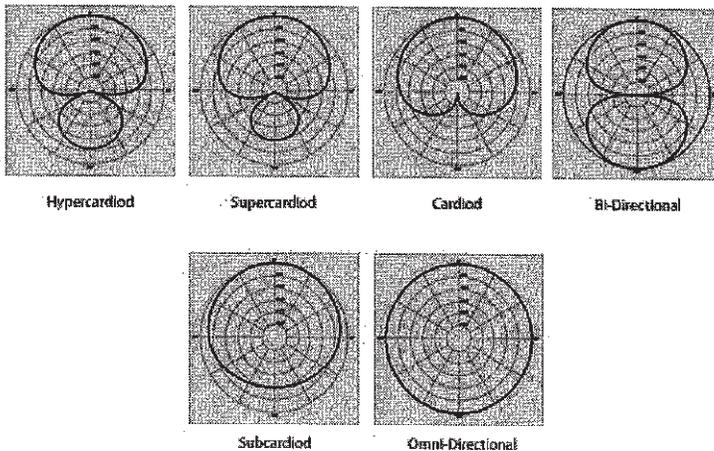
- Shielded RJ45 connector for audio, serial controls, and power
- Tri-Colored Programmable Indicator Lights with variable flashing speeds and assignable colors
- Touch Capacitive, Programmable push button for Push Once to Talk, Hold to Talk, Push Once to Mute, or Hold to Mute
- Programmable Microphone Patterns, including:
 - Omnidirectional
 - Subcardioid
 - Cardioid
 - Supercardioid
 - Hypercardioid
 - Bidirectional
- Bottom and rear Connector Access
- Powered from Centro A/V Processor
- RFI and ESD protection
- EIA/RS 422 full duplex communication port
- On-board Mic preamplifier
- Embedded resistors for mic failure detection
- RoHS compliant
- Shock-absorbing foam pad



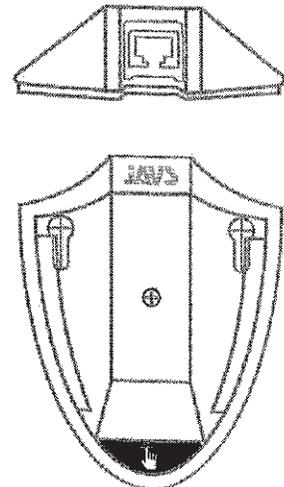


Parameter	Specification	Conditions/Comments
Operating Principle	Electret Condenser	
Polar Pattern	Electronically Adjustable	Multiple Patterns
Frequency Response	200Hz - 16KHz	@-6db
Sensitivity	-10dBu	@ 1Pa
Output Impedance	100 Ω	
Maximum SPL	>100dB SPL	@1% THD, 1KHz
Power Requirements	2W	
Power Supply Voltage Range	10-24VDC	
Connector	RJ45 Shielded	

Parameter	Specification	Conditions/Comments
Communication Port	RS422	Via RJ45 connector
Communication Speed Rate	57600 bps	
Communication Port Impedance	100 Ω	



The JAVS FlexMicrophone has a sleek design and is CAT5/6 cable ready for ease of installation. The RJ45 connector provides for power, audio and RS422 full duplex communication.



The JAVS FlexMicrophone provides multiple patterns so JAVS installers can precisely tailor the polar pattern for the best performance depending upon the application or environment.

Premium digital recording appliance for public and private meeting capture

Ensure your public and any transcriptionists have access to high-quality digital audio and video recordings. Engineered with 21st century demands in mind, JAVS Recorder 7 Deluxe supplies recorders with high resolution audio and video in a non-proprietary, industry standard.

Key

Features JAVS Recorder 7 Deluxe is an energy efficient network recording appliance with functionality unseen of in Windows Media Recorders.

Microsoft Windows Media™ Format

Recorder 7 Deluxe uses Microsoft Windows Media Format so files are non-proprietary and accessible to anyone in the networked world. Your content will be seen & usable immediately, without delay.

High-Quality Recording Templates

Select between multiple audio and video capture rates and resolutions.

Five Track Recording

Audio can be recorded into five discreet channels for isolation during playback. All channels fold down into stereo when viewing in Windows Media Player™. JAVS Viewer software allows the user to monitor any mix of channels at their discretion.

Database Connectivity

ODBC compliant database connectivity allows for users to associate events, people, exhibits and parties to recordings to allow access not just by day, but by actions and as they happened.

User Scalability

From the PC end-user to Network Administration, the Recorder 7 Deluxe provides all users with the tools they need to capture, maintain and distribute their recorded sessions.

Multiple Annotators

With JAVS AutoLog 7 software any number of users can connect to live events, add notes and comments. Additionally, all users can mark their notes as viewable by everyone, public or private.

80 Plus® Certified

Recorder 7 Deluxe utilizes an 80 Plus® certified power supply. Products incorporating these power supplies offer 80% or greater efficiency at 20%, 50%, & 100% workloads.

Benefits

- Easy to Use—produces industry-accepted a/v media within minutes
- Integrates within JAVS Digital Audio Video Documentation System
- Can stream through publishing points via a push or pull server
- Industry standard recording files play seamlessly with Windows Media Player™



Models

Deluxe Digital Recorder

JAV-REC7DS

- Single Video Channel, Stereo (L+R) recorder. Windows Media® Video format (.WMV)
- Includes SQL Database
- Provides JAVS Deluxe Video Quality
- Includes SiteManger™ Network Configuration Tool and JAVS Viewer™ Monitoring and Viewing Software
- 500GB Hard Drive

JAV-REC7DM

- Single Video Channel, Five channel (5) recorder. Windows Media® Video Format (.WMV)
- Includes SQL Database
- Provides JAVS Deluxe Video Quality
- Includes SiteManger™ Network Configuration Tool and JAVS Viewer™ Monitoring and Viewing Software
- 500GB Hard Drive

Accessories

JAV-SRMK

- Single Rackmount Kit Includes one (1) DDVR-EAR2 Blank and one (1) DDVR-EAR Rackmount Ear.
- Includes all threaded hex screws

JAV-DRMK

- Dual Rackmount Kit Includes two (2) DDVR-EAR Rackmount Ears and one (1) DDVR-MB Center Bracket
- Includes all threaded hex screws

JAV-D1010

- Upgrade any JAV-REC7DS from stereo to multi-channel

JAV-WLAV

- White list anti-virus agent for network appliances

Features and Specifications

Video Encoder

- WM9 Encoding
- Format: NTSC, PAL
- 4:3 Aspect Ratio Resolutions: 640x480, 480 x 360, 400 x 300, 360 x 270, 320 x 240
- Video Frame Rates: 1, 7.5, 15, 30 (NTSC) 1, 5, 10, 12.5, 25 (PAL)
- Constant Bit Rate/Constant Frame Rate
- Variable Bit Rate Quality-Based/Constant Frame Rate
- User-definable key frame interval
- Rates: 32 Kbps – 1024 Kbps (actual dependent upon resolution, frame rate and profile selection)
- Closed Captioning by user insertion
- Metadata insertion and scripting
- Inputs: Composite (on BNC) or S-Video

Audio Encoder

- WM9 Encoding
- Sample Frequency: 8 Khz to 48 Khz
- Rates: 32 Kbps to 256 Kbps
- Audio Modes
 - JAV-REC7DS Stereo, Mono (L+R)
 - JAV-REC7DM Stereo, Mono, Four Track, Five Track
- Inputs
 - JAV-REC7DS
 - Unbalanced Input on RCA Left (x1), Right (x1)
 - JAV-REC7DM
 - Balance Input on XLR (x2), Unbalance Input on RCA (x3)

Ethernet Network

- 10/100/1000 Mbps Ethernet via RJ-45, Static or DHCP
- Auto Negotiation, autosensing full/half duplex

Protocols

- Unicast/Multicast, UDP/TCP/IP/RTSP/HTTP/ASF/SFTP

Dimensions

- W8.63" x H3.44" x D11.63" (W16.84cm x H8.74cm x D29.54cm)

Weight

- 9.95 lbs (4.31 Kg)

Serial Port

- Local maintenance or data transport

Power Supply

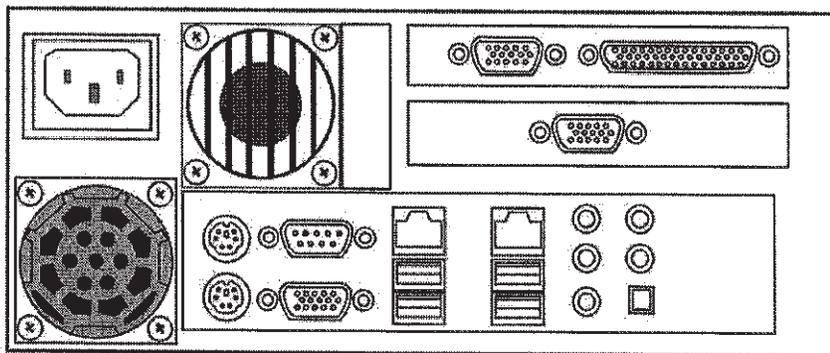
- Input: 100 to 240 VAC, 50/60 Hz
- Output: 220W
 - 80 Plus® certified efficiency at 20, 50 & 100% workloads

LCD

- 80 Character display (20x4), backlight

LED Status

- Power On, Activity (hard disk)
 - System Record
 - Not Recording/Recording
 - Transitioning
 - Record Paused
 - Device Record
 - Not Recording/Recording
 - Transitioning
 - Device State
 - Booting
 - Connecting/Connected
 - Disconnected/Shutting Down
 - Safe Mode/Error
 - Safe Mode
 - Error



JAV-REC7DM Shown with Multichannel Capture Card

