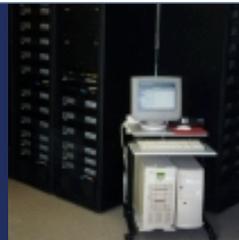




33
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 MULTIMEDIA SYSTEMS DESIGN AND IMPLEMENTATION



PROJECT PORTFOLIO



PLEASE NOTE:

**THIS PORTFOLIO IS BEST VIEWED USING THE
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THEN USING THE LEFT/RIGHT CURSOR KEYS
TO NAVIGATE THROUGH THE PAGES.**

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AIM MANAGEMENT GROUP, INC.

CLIENT

AIM Management
Mr. Jeff Brown
11 Greenway Plaza
25th Floor
Houston, TX 77046

FACILITY

World Headquarters -
Executive Boardroom
Videoconference Room



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DESCRIPTION

When AIM Management Group started out in 1976, the company had only a table, two chairs, and a telephone. The Houston-based company now has more than \$141 billion in assets under management and more than 2,600 employees – and substantially more furniture. As part of the complete renovation of the 25th floor of their World Headquarters in Houston, Texas, AIM wanted to provide their Board of Directors with a meeting space that would reflect the stature of the company while providing effective use of multimedia presentations and telecommunication.

The large size of the AIM Boardroom necessitated the use of a dedicated "mix-minus" overhead audio system that allows each Board member to easily hear the voices of all other members seated throughout the room. Presentations to the Board may be made either locally or by videoconference link, and both may be viewed using the high-resolution rear screen video system. Complete audiovisual system control may be accomplished via a dedicated 15" XGA touchpanel/monitor built into the lectern or via wireless touchpanels, and all system functions are easily operable by nontechnical personnel.

The adjacent Videoconference Room provides smaller meetings with the same high level of technology found in the Boardroom, and operates using identical control system software topology.

BOARDROOM/VIDEOCONFERENCE ROOM

FEATURES

BOARDROOM

- High-resolution video projector provides bright image visible under all lighting conditions.
- Lectern-mounted 15" video monitor/touchpanel integrates presentation video into A/V control.
- Multiple laptop computer inputs provided throughout room may be routed to video projector and to videoconference link.
- Extensive floor-pocket connection system allows room configuration to be easily altered.



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VIDEOCONFERENCE ROOM

- Dual 50" XGA plasma displays allow local and far-site images to be viewed simultaneously.
- Digital stereo audio system supports both program and videoconference sources.
- Laptop/Network computer inputs allow user presentations to be sent to far sites via video "down-convertor."
- Even complex videoconferencing functions are easily controlled via wireless touchpanel.



EQUIPMENT

BOARDROOM

Barco XGA video projector
Faroujda digital video processor
ELO 15" LCD video monitor/touchpanel
Sony 3 chip video camera w/Cannon lens
Extron and AutoPatch matrix routers
Sony DVD/CD/VHS source devices
I.E.D "mix minus" voice system
EAW stereo program audio speakers
Beyer Dynamic gooseneck microphones
Gentner teleconference interface
AMX control system w/SAC Software
Canare hi-res video and audio cable

VIDEOCONFERENCE ROOM

Dual Pioneer XGA plasma displays
Extron RGBHV hi-res video matrix router
Extron laptop/network computer interfaces
AutoPatch NTSC/audio matrix router
Sony videoconference camera
Sony DVD/CD/VHS source devices
JBL powered monitor speakers
Yamaha automated digital audio mixer
Beyer Dynamic ceiling-mounted microphones
Gentner digital teleconferencing processor
AMX control system w/SAC Software
Canare hi-res video and audio cable

HOUSTON INTERCONTINENTAL AIRPORT

CLIENT

Gensler
Mr. Kevin Locke
Pennzoil Place
700 Milam St.
Houston, TX 77002

FACILITY

"Countree Music" Installation
George Bush Houston Intercontinental
Airport -
South Concourse, Terminal A



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DESCRIPTION

Terry Allen is a multi-disciplinary artist in the truest sense of the term. In addition to his work as a songwriter, composer, pianist, and lead vocalist (performing and recording with his own Panhandle Mystery Band from Lubbock, Texas) Terry is perhaps best known for his sculptural work. Nowhere are Terry's emphatically mixed-media talents better showcased than with his "Countree Music" Installation.

The "Countree Music" Installation is centered around a life-sized bronze tree sculpture which is mounted beneath a large circular atrium dome in the middle of the South Concourse of Terminal A, George Bush Intercontinental Airport in Houston, Texas. The floor surrounding the tree is a massive terrazzo "orange-peel" map of the world which has been artistically altered to place Houston at its center. The electronic system associated with the installation includes dedicated audio and show control components that reproduce a computer-generated audio program featuring musical styles and instrumentations from different parts of the world. The hour-long musical program (composed by Terry along with fellow musicians Joe Ely and David Byrne) is a compilation of 15 different songs, each utilizing a unique set of musical instruments whose sounds emanate throughout the atrium. The entire program is repeated continuously during airport operating hours.

The audio playback system is a discrete eight channel sound system designed to amplify and distribute the multichannel output of MIDI-based sequencing/voicing units around the atrium. The audio system uses eight separate high-fidelity ceiling mounted speakers placed evenly around the periphery of the domed atrium in a "surround sound" configuration, and the technique used to mount each of the eight speakers renders them completely invisible.

As each musical composition plays, a different instrument can be heard coming from each of the eight speakers, i.e., during the first song a drum is heard coming from the first speaker, a guitar is heard coming from the second speaker, an accordion is heard coming from the third speaker and so on. Because the eight audio speakers are spread around the outside edge of the atrium, the volume balance (or "mix") of the multiple instruments depends on the position of the listener relative to the speakers and therefore changes as the listener moves about the atrium. The variation of the "mix" heard by the listener, combined with the changing position of the instruments from song to song (as well as the inability of the listener to visually locate the source of each sound) provides a uniquely "interactive" component to the "Countree Music" experience.

The show control system is a dedicated "card-cage" type device, utilizing individual control cards and custom programming capable of monitoring and orchestrating all of the various functions of the installation:

- Automatic time-based start and stop of operation.
- Monitoring of concourse ambient noise level.
- Automatic adjustment of playback volume level based on ambient noise level ("margin" volume control).
- Monitoring of system playback status with automatic reset/start function in event of playback or data errors.
- Emergency "interrupt" of system function based on airport alarm system status.

All audio and control system components not physically installed in the concourse atrium and surrounding area are mounted in a small equipment rack, which is located in a dedicated equipment room near the concourse atrium.

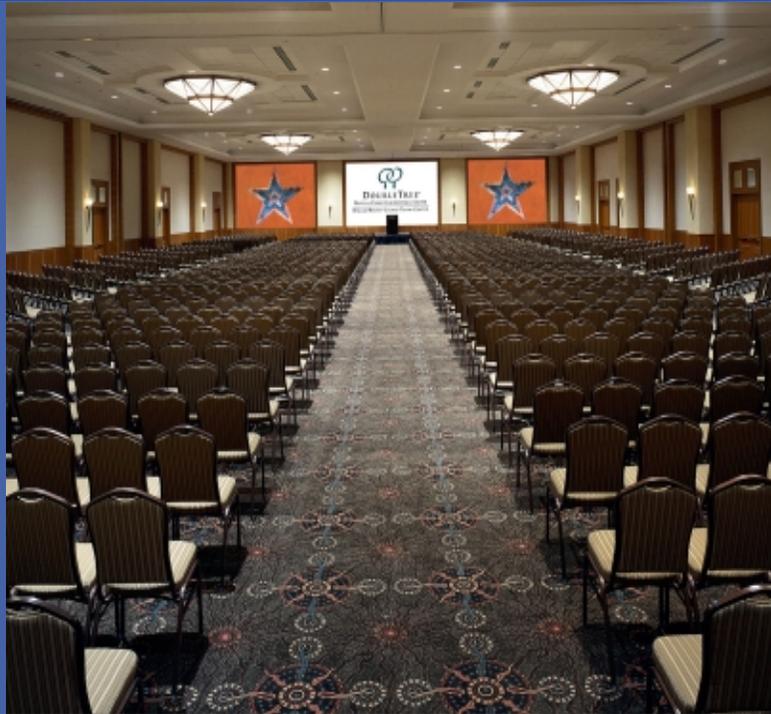
DOUBLETREE LEGACY HOTEL

CLIENT

Hawicz & Stait, Inc.
Mr. Geoffrey Stait
2727 Kirby Drive, Suite 502
Houston, TX 77098

FACILITY

Doubletree Legacy Hotel -
Ballrooms
Multimedia Amphitheatre
Meeting Rooms



Michael French Photography 888/386-1199

DESCRIPTION

With "corporate campus" neighbors like EDS, Computer Associates, Citizens Communications and Ericsson, the developer and management of the new 400-room Doubletree Hotel and Convention Center at Legacy Town Center (Plano, TX) wanted to make sure that its multimedia capabilities would exceed those of its clients' own technical facilities.

They started by providing extensive audio and video capabilities in the Trinity Ballroom – a 14,000 s.f. room whose completely digital "music-quality" audio system responds to room configuration changes by automatically adjusting individual speaker level/EQ/delay settings. The nearby San Jacinto Ballroom, with its own audio system, is linked to Trinity via audio/video/control tie lines so that the two rooms can function as one as needed. Multiple "floating" control touchpanels, which can be plugged in throughout the two Ballrooms, provide both users and technicians with comprehensive and flexible system control.

The Colorado Amphitheatre, a 100-seat high-tech multimedia presentation/conference room, includes bidirectional links to five additional meeting rooms as well as to the Trinity and San Jacinto ballrooms.

A unique feature allows any of the above rooms to simultaneously "broadcast" their audio/video signal to every television in the hotel via four dedicated channels of the in-house entertainment cable system.

CONVENTION CENTER/MEETING ROOMS

FEATURES

COLORADO AMPHITHEATRE

- Multiple links between Amphitheatre and all meeting rooms provide "overflow" capability for larger interactive presentations.
- Lectern-mounted 15" video monitor/touchpanel integrates presentation video into A/V control.
- High-resolution video projector provides bright image visible under all lighting conditions.
- Laptop/Network computer inputs allow user presentations to be sent to far sites via video "down-converter."



Michael French Photography 888/386-1199

BALLROOMS

- Multiple input panels located throughout each Ballroom section provide extensive input and interconnection for audio/video/control signals.
- Permanently mounted and "floater" control system touchpanels for flexible operation.
- Audio/video/control tie lines allow rooms to be split/combined in multiple configurations.
- Digital processor-based "music-quality" audio systems combine high-fidelity sound with rapid automated configuration changes.



EQUIPMENT

COLORADO AMPHITHEATRE

Barco XGA video projector
Entuitive lectern video touchpanel
AutoPatch RGBHV/NTSC video matrix routers
Extron laptop/network computer interfaces
Sony videoconference camera
Sony DVD/CD/VHS source devices
Beyer Dynamic microphones
Yamaha automated digital audio mixer
EAW program audio speakers
QSC audio amplifiers
AMX control system w/SAC Software
Canare hi-res video and audio cable

BALLROOMS

EAW overhead speakers
Gentner digital audio processors
w/133 custom programming
Symetrix digital audio processors
QSC audio amplifiers
AutoPatch video matrix routers
Draper electric video screens
AMX control system w/SAC Software
Canare hi-res video and audio cable

PRIVATE RESIDENCE

CLIENT

Reference
furnished
upon
request

FACILITY

Private Residence
Background Music System
A/V Routing System
DSS Distribution System



touch thirty three file photo

DESCRIPTION

When we asked our client if we could include their home in our portfolio, their business manager replied "Sure – just don't say anything about who owns it, where it is, what's in it, or how much it cost... and no pictures except the racks." We will certainly respect their wishes – but we also intend to tell you as much as possible because it is the largest and most technically sophisticated A/V system we've ever designed.

The Background Music System provides completely invisible studio-quality music to every room in the house. Eight stereo sources (five DSS digital music channels, two FM radio tuners and a 200 disc CD jukebox) are fed into a Cobranet-based audio transmission system that distributes the audio (as a 100BaseT data signal) over fiber-optic cables to five equipment rooms spread throughout the home. In each equipment room, the signal is decoded into analog audio and feeds a matrix router, which routes the audio directly to the inputs of professional-grade audio amplifiers. Each amplifier (which includes a digital DSP module with gain control and a stereo five-band parametric EQ) connects directly to the speakers mounted in each room. Utilizing a dedicated amp/DSP module for each room allows the sound to be fine-tuned to accurately match the acoustics of each individual room. We also provided an elegant proprietary wall-mounted volume control (we call it the "Spin Control") that uses a CAT5 connection back to the A/V control system to allow source selection and volume control in each room. Because no audio flows through the Spin Control, the direct connection from source to amp to speaker is maintained and provides the highest fidelity possible.

HOME A/V SYSTEM

The A/V Routing System is a unique feature of this project that allows audio and video signals to be routed throughout the home with unprecedented ease and flexibility. In each of the five "equipment zones," all A/V source devices (CD/DVD/VHS/BGM) and all A/V destination devices (TV/speakers/recorders) are interconnected via A/V matrix routers – allowing any source to be seen/heard at any destination. All signal routing is programmed into the A/V control system software or may be easily defined via any of the control system touchpanels throughout the home. For example, while watching a DVD movie in the Master Sitting Room the user could simply press the "Send To" button on the touchpanel, select "Jacuzzi" and walk into the nearby Jacuzzi where the same DVD is now being shown. Or, while watching CNN on the TV in the Master Bedroom the user could walk into the Master Bath, touch the "Spin Control" mounted by the door and automatically hear the CNN audio over the Master Bath background music speakers. Possible routing combinations are limited only by the desires of the user, and may be changed at any time.



touch thirty three file photos



The DSS Signal Distribution System utilizes a single 22" satellite dish to feed more than 60 DSS receivers used in the home. All DSS "set top" boxes are remotely located in the five Equipment Rooms (rather than at the individual TV sets themselves) in order to reduce visual clutter and to consolidate the required phone system wiring that each receiver requires. From the remotely mounted dish, the digital signal passes through a series of multiswitch/amplifiers and is routed via broadcast "hardline" cable to each of the equipment rooms. There, the signal is split as required to feed the individual receivers, again using ultra high-bandwidth broadcast cable. All receivers are controlled either via RF wireless handheld controls or via the A/V control system. In addition, all recording devices (VHS decks) are equipped with dedicated DSS receivers so that the user may record one program while continuing to watch another.

WILLIAMS COMMUNICATIONS

CLIENT

3D/International
Mr. Timothy Gunther
1900 West Loop South, Suite 400
Houston, TX 77027

FACILITY

Williams Communications -
National Technical Resource Center
Technical Assistance Center Lab
25th Floor Executive Boardroom



Aker/Zvonkovic Photography 713/862-3643

DESCRIPTION

Williams Communications is an international corporate provider of fully integrated voice, data and video communications technology – combining the unseen elements of fiber-optic cable, digital electronics and satellite transmission into a single, seamless communication environment for their clients. When Williams decided to create a new National Technical Resource Center (NTRC) in Houston's Williams Tower, they wanted a premier facility that would reflect their long-term commitment to supplying and supporting the equipment required for fast and efficient corporate communications.

As the centerpiece of Williams' NTRC, the Technical Assistance Center Lab allows visitors to view system engineers monitoring more than 4,000,000 data communication ports nationwide on five large-scale screens, diagnosing and resolving potential service interruption before it occurs. Customers learn more about Williams in dual Presentation Rooms overlooking the Lab, each room itself a fully-equipped video teleconferencing suite with multiple resources for viewing the computer images created in the Lab.

Along with the 25th Floor Executive Boardroom (a state-of-the-art meeting and videoconference suite) all of the NTRC's presentation systems may be accessed via any of several AMX control systems that have been integrated into a single comprehensive operational entity.

NTRC / BOARDROOM

FEATURES

- Thirteen computer and video sources may be viewed simultaneously via TAC screens.
- Audio/Video matrix routing allows multiple links between all facility presentation systems.
- Central shared telecommunication routing allows full use of available CODEC resources.
- Multiple integrated AMX control systems.
- 300 mHz video infrastructure for multiple/simultaneous video and computer formats.
- Triple layer AMX security passcode system allows multi-user operation scenarios.
- Forward and backward compatibility with future and existing Williams facilities.
- Multiple layer system redundancy.



Aker/Zvonkovic Photography 713/862-3643

EQUIPMENT

AUDIO

Eastern Acoustic Works main speakers
JBL stage and control monitors
QSC amplifiers
Yamaha digital programmable mixers
Klark/Teknik stereo equalizers
Sound Control teleconferencing systems
Beyer in-ceiling and wireless microphones
Canare hi-res wiring w/ADC patchbays
Gentner assistive listening systems

VIDEO

Barco Light Cannon projectors
Data Display projector lifts
Mitsubishi high-res CRT monitors
NEC high-res video projectors
AutoPatch 100mHz audio/video router
RGB Spectrum image processing
Altinex computer interfaces
Sony cameras w/ Telemetrics pan/tilt/zoom
Multiple interlinked AMX control systems

UNIVERSITY OF TEXAS MEDICAL BRANCH

CLIENT

Mathes Group/
Associates and Crews
Mr. Robin Crews
25325 Nighthawk
San Antonio, TX 78255

FACILITY

University of Texas -
Medical Branch
Galveston Campus
Open Gates Center



Rick Gardner Photography 713/665-8560

DESCRIPTION

The University of Texas Medical Branch Open Gates Conference Center is a project centered around the Sealy Mansion, one of the few remaining jewels of turn-of-the-century Galveston Island. Originally the residence of one of the wealthiest families in the state until it was acquired by the University of Texas System, Open Gates (as the home has been known for more than 100 years) now stands as one of the finest medical meeting and multi-room conference centers in the country.

The challenge of integrating state-of-the-art communications technology into this historically protected landmark required creative solutions – developing a digital fiber-optics video/audio/control infrastructure that allows multimedia signal routing throughout the facility, rethinking the role of technology in a true distance learning environment, and blending modern technology with the renovated structure's inherent style and elegance.

All eight of the videoconferencing, meeting and distance learning suites may be locally operated as a "stand-alone" room or may be digitally linked in a variety of configurations that can be stored and recalled from a central equipment control panel – easily facilitating the rapidly changing requirements within this timeless setting.

OPEN GATES CONFERENCE CENTER

FEATURES

- Digital fiber-optic audio/video/control infrastructure provides maximum flexibility.
- MediaMatrix digital audio routing and mixing system allows fast configuration changes.
- Each room fully self-contained for stand-alone operation or multiple linking.
- User friendly control operating systems.
- 300 mHz video distribution supports multiple hi-resolution and computer display formats.
- Complete distance learning origination and participation (gateway/node) facilities.
- Integration of multiple AMX control systems for seamless multi-room operation.
- Multiple ISDN/T1/D3 telecommunications support.



Rick Gardner Photography 713/665-8560



EQUIPMENT

AUDIO

MediaMatrix Audio Routing/Mixing System
JBL/EAW/Canon speakers
Crown CT Series amplifiers
Beyer Dynamic microphones
BEC SigmaNet fiber-optic equipment
Yamaha digital audio mixers
Coherent teleconferencing interfaces
Tascam source equipment
Gentner assistive listening systems
Canare hi-res audio cable

VIDEO

Barco video projectors
Navitar Xenon slide projectors
Mitsubishi hi-res CRT monitors
Extron RGBS switching and DA's
Grass Valley video switching and DA's
YEM scan rate doublers and converters
RGB Spectrum video processors
Video Data System character generators
AMX control systems
Canare hi-res video and RGBHV cable

BILL MOFFETT PRODUCTIONS, INC.

CLIENT

Moffett Productions, Inc.
Mr. Bill Moffett
16140 Kuykendahl,
Suite 126
Houston, TX 77068

FACILITY

(3) Radio/TV Audio
Production Studios
Duplication Room



Gary Bankhead Photography 713/861-4130

DESCRIPTION

During the last twenty years, Bill Moffett has done just about everything a person can do in the radio broadcast industry, from disc jockey to programming to commercial production. His extensive background led him to start his own production company, Moffett Productions in Houston, Texas. If you listen to radio anywhere in North America, chances are good that you've heard Bill's unique voice and production style, concentrating lately on his main passion – virtually any form of motor sports. From NHRA to Winston Cup to local racetracks and promoters all over North America, Moffett Productions has become the main supplier of radio and television spots to the racing community.

When Bill decided to build his personal studio and production facility, he wanted each part of his production audio chain to provide the best in both audio quality and speed of operation. Instead of trying to adapt his style of production to the normal studio environment, Moffett Productions' entire facility was designed, specified and installed to operate like a finely tuned race car – to be fast, accurate and reliable. The thought and planning that went into every facet of the facility has helped Moffett Productions to become a successful enterprise, and a second major studio (identical to the Main Studio, with the addition of video editing capability) was recently added.

COMMERCIAL STUDIO FACILITY

FEATURES

- Main Studios with large format audio control console for preset functions.
- Several multitrack tape machines, with ability to monitor all channels at once.
- Multiple audio sources including external telephone feed audio.
- SMPTE time code lock to video for audio sweetening sessions.
- Extensive effects and signal processing.
- Minor Studio for soundtrack production and support work to Main Studios.
- Patchbay routing allows quick changes in system set-up and operation.
- Separate duplication room for cassette, reel to reel, DAT and CD duplication.
- Analog and digital tie lines to all rooms allow quick transfer of audio signals.
- Fully balanced and isolated electrical system.



Moffett Productions File Photos



EQUIPMENT

MAIN STUDIOS

Tascam M500 24X16X16 consoles
Tascam digital multitracks
Otari MTR and MX Series analog machines
JBL control monitors
AKG "Tube" vocal microphones
dbx and UREI compressors
Eventide effects units
Lexicon reverbs
Studer CD players
Panasonic DAT digital recorders
Carver CD recorders
Nakamichi cassette decks

MINOR STUDIO

TAC B2 24 X 8 X 2 console
Tascam digital multitrack
Otari MX Series analog machines
JBL control monitors
Crown monitor amplifiers
dbx compressors
UREI stereo limiter
Eventide effects units
Lexicon reverbs
Panasonic DAT digital recorder
Technics CD players
Nakamichi cassette deck

UNIVERSITY OF TEXAS MEDICAL BRANCH

CLIENT

UTMB Galveston -
Biocommunications
Mr. Sam Davis
301 University Blvd.
Galveston, TX 77555

FACILITY

University of Texas -
Medical Branch
Galveston Campus
Levin Hall Auditorium



Gary Bankhead Photography 713/861-4130

DESCRIPTION

The University of Texas Medical Branch is one of the main medical research and teaching facilities for the entire UT College System. Its campus (located in Galveston, Texas) contains hospitals, educational classrooms, experimental facilities, and a large Biocommunications Department that services the entire UT System. Levin Hall, a 900-seat auditorium built in the mid-1980s, is the largest meeting/teaching facility on campus and is used for classroom instruction, training and testing. With biocommunications (the combination of telecommunications and medical technology) becoming a central focus of the medical industry in general, it was decided to renovate Levin Hall to make it a state-of-the-art multimedia facility that would easily support the audio, video, telecommunication, and entertainment requirements of the instructors, staff and students.

In addition to providing the very best in presentation technology, the Levin Hall A/V System is simple for nontechnical personnel to operate and is very user-friendly. The system allows all current source materials to be fully utilized and integrated into a seamless presentation, and is designed to be easily updated to meet the challenges of many proposed video and computer formats.

LEVIN HALL PHASE II

FEATURES

- Dual split four-way speaker arrays with mechanical isolation.
- Multichannel cue monitor system with automatic feedback suppression.
- CD, cassette, wireless and hard-wired microphone audio sources.
- Fully integrated AMX control system.
- 100 mHz video distribution to support all video and computer formats.
- VHS, S-VHS, UMatric, Beta SP, computer, live and document camera sources.
- Full "video writing" capability via local podium preview monitor.
- Audio/video uplink and downlink connection.



Gary Bankhead Photography 713/861-4130

EQUIPMENT

AUDIO

Eastern Acoustic Works main speakers
JBL stage and control monitors
QSC monitor amplifiers
TAC 24X4X2 audio console
Klark/Teknik stereo equalizer
UREI feedback suppressors
Crown amplifiers and microphones
Audio Technica wireless microphones
Sony source equipment

VIDEO

JVC/Hughes video projector
Navitar Xenon slide projectors
Sony video monitors and source equipment
Covid RGBS switching and DA's
Grass Valley video switching and DA's
YEM scan rate doubler
Prime Image TBC/stillstore
Boeckeler VideoWriter
AMX control system

PRIVATE RESIDENCE

CLIENT

Reference
furnished
upon
request

FACILITY

Private Residence
Home Theatre



touch thirty three file photo

DESCRIPTION

If you were going to build your own personal castle fifty miles away from the nearest movie theatre, chances are good that you would want one of these – your own "beyond-state-of-the-art" media room, where watching a movie or listening to music is a thrilling experience. The interior decor – featuring large overstuffed couches and luxurious carpeting – is literally wrapped in Old West charm, and is one of the warmest and most inviting rooms that we've ever seen. But hidden behind the custom red velvet draperies and elegant cloth wall panels is the very best technology that the world of professional audio and video can provide.

Our client wanted to create a room that "picks up where home theatre leaves off," so our first task was to engineer a comprehensive set of absorptive panels, diffusive structures and custom bass traps to achieve an acoustic environment that supports audio playback without coloration or distortion. Next, we assembled the very finest professional audio and video components into an integrated system whose performance matches or exceeds the dubbing theatres and mixing rooms where the movies were originally created. Finally, we designed and coded the control system software so that anyone can easily operate this technological tour de force. Popcorn, anyone?

MEDIA ROOM

FEATURES

- Main left/center/right speakers mounted directly behind "micro-perf" video screen for perfect match between sound and image.
- Multiple 18" ELF subwoofers combine effortless low-frequency response with high-impact speed and precision.
- Discrete 7.1 channel design supports all current and proposed surround formats.
- 5,600 watts of ultra-low distortion audio amplifier power.
- Digital and analog audio processing chains for exceptional signal clarity and warmth.
- Ultra high-resolution video projector mounted in dedicated rear booth for improved performance and complete noise isolation from Media Room.
- Comprehensive touchpanel control system includes dedicated "show" mode and supports multiple user levels for intuitive operation.
- Custom screen masking system supports multiple image aspect ratios.
- Network computer and multiple video game inputs allow lots of "non-movie" fun.
- Completely isolated and balanced "tech power" system with 14kVa UPS backup supply.



touch thirty three file photos



EQUIPMENT

AUDIO

Theta Digital DVD/CD transport
Krell surround processor
Bryston ST series amplifiers
BSS Soundweb system controller
Tannoy System 1200 L/C/R speakers
Tannoy System 1000 surround speakers
Bag End M1 L/R/sub processors
Bag End 18" ELF subwoofers
RPG Diffractal rear wall system
Canare and Monster cables

VIDEO

Sony VHS and S-VHS video decks
AutoPatch NTSC video router
Faroudja video processor
Extron RGBHV high-resolution router
JVC/Hughes ILA Lightvalve projector
Stewart "Micro Perf" video screen
Stewart Electromask multi-format system
Extron computer interfaces
Crestron control system w/SAC software
Canare ultra hi-res cables

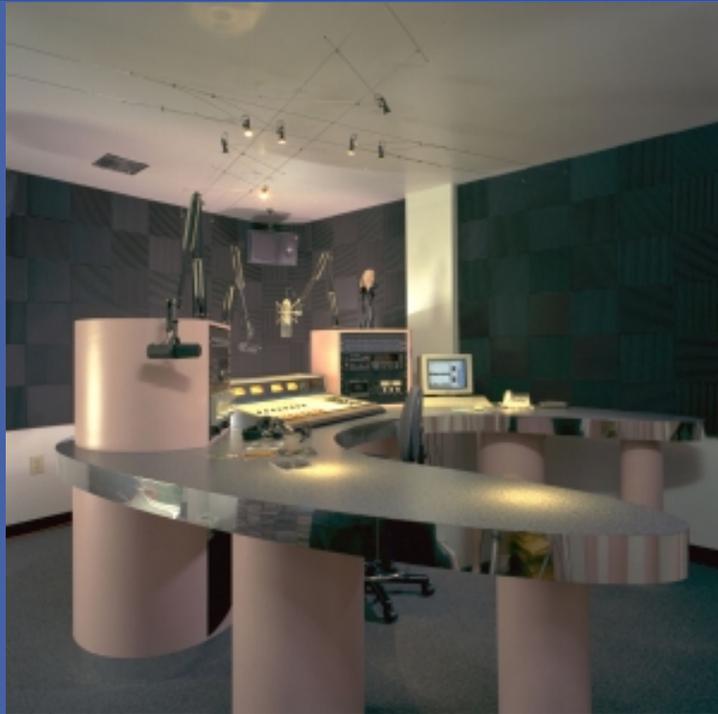
DMcK TEXAS

CLIENT

DMcK Texas
Ms. Donna McKenzie
3013 Fountainview,
Suite 101
Houston, TX 77057

FACILITY

Syndicated Radio
Production and
CD Mastering Studio



Gary Bankhead Photography 713/861-4130

DESCRIPTION

As a well-known broadcast professional in the Houston radio scene, Donna McKenzie has built her reputation as a leader in the marketing and promotion of original Texas rock music, both by her top rated afternoon-drive radio shows (for such stations as KZFX/107.5 FM and KLOL/101.1 FM) as well as her own "New Texas Radio" weekly programs and compilation CD projects.

When Donna decided to move "New Texas Radio" into state-wide syndication, she realized she would require a unique studio facility that would allow her to maintain her warm on-air presentation style while permitting the ultra high-quality production values necessary for successfully distributing New Texas Radio via custom manufactured CD's each and every week – without interruption.

In many ways, Donna's DMcK Texas Studio is a top-notch radio broadcast room, with her final "signal" going directly to DAT digital recorders instead of to a radio station transmitter tower. The custom millwork (conceived by McKenzie to "look like George Jetson's desk") houses all of the equipment necessary to completely produce her show in-house - from the custom Neumann microphone and signal processing all the way through the Dyaxis digital audio editing and CD mastering system.

BROADCAST PRODUCTION STUDIO

FEATURES

- Complete production and CD mastering capability in a single room.
- "Radio DJ-friendly" equipment configuration accommodates fast, efficient production.
- Extremely ergonomic custom millwork puts all equipment within arm's reach.
- Multiple audio sources, including external telephone audio feeds.
- "Live End/Dead End" acoustical design.
- Totally isolated and tuned room construction with "full-floating" floor system.
- Multiple digital interconnects provide fast machine to machine audio "cloning."
- Multiple microphone and headphone monitoring to support talent interviews.
- "Balanced" electrical power system supplies clean, isolated tech power grid.
- Noise-free passive lighting dimmers.

EQUIPMENT

PRODUCTION EQUIPMENT

Broadcast Electronics Airtrak 90 console
with remote CD start control
Tascam DA-30 digital DAT recorders
Tascam BR-20 analog reel to reel deck
Tascam 122 MKIII cassette deck
JBL 4408 control monitors
QSC monitor amplifiers
Vintage Neumann U-87 microphone with
Stephen Paul custom capsule
Symetrix 528e vocal processors
Dennon Pro CD Players
Shure SM-7 microphones
Fostex headphones
Luxo mic stands
Mogami LC Neglex wiring
Gentner Digital Hybrid II phone interface

CD MASTERING EQUIPMENT

Dyaxis Digital Audio Editing System
Dyaxis SMPTE system synchronizer
Dyaxis DSP digital EQ with
time compression/expansion
MacIntosh Ix computer
Sony monitor
APS 2.2G hard drives
WangTek 4mm b/u drive
Magic Sound custom EPROM
Summit DCL-200 stereo tube compressor

TECHNICAL POWER

Equi=Tech "Balanced Power"
Transformer System

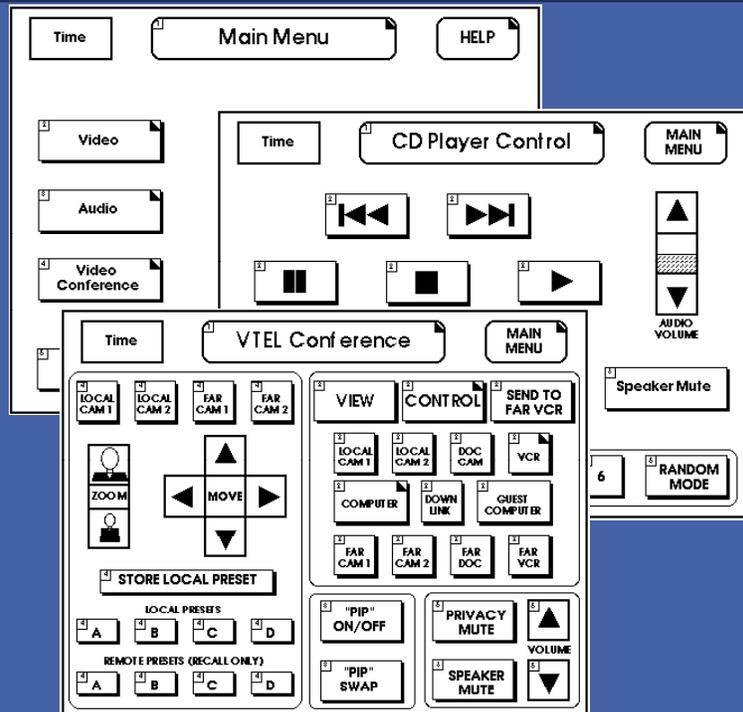
SOUTHWESTERN BELL

CLIENT

VMI Company of
St. Louis/SAC Dallas
Mr. Keith Tomiser
2268 Welsch Court
St. Louis, MO 63146

FACILITY

University of Missouri -
Telecommunity Centers
(nine locations state-wide)



DESCRIPTION

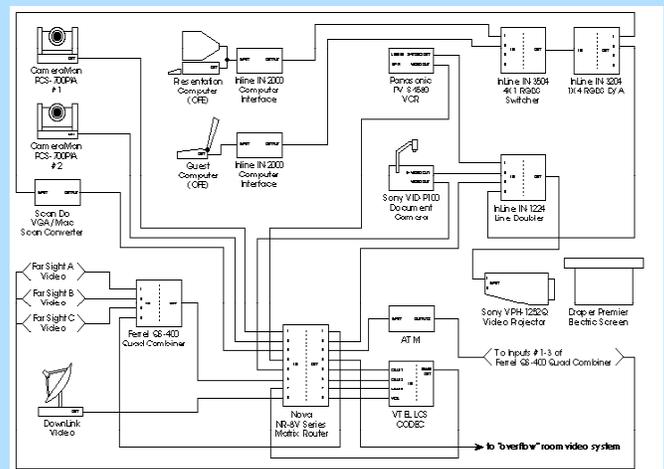
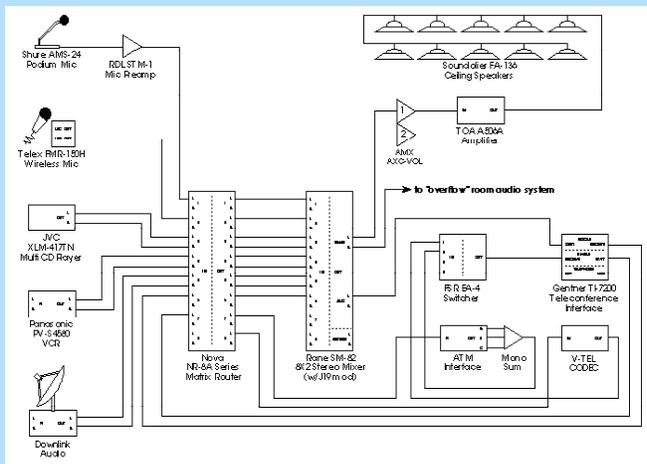
Funded by a partnership/grant program from Southwestern Bell, this project involves the design of nine "Telecommunity Centers" (TCC) located on various campuses of the University of Missouri System. Each of the TCCs is comprised of multiple auditoriums, meeting rooms and CRT Training Classrooms (supporting both WinTel and Mac formats) that may be inter-linked, both within each facility and within the University network.

Because each room of each TCC must be able to accommodate both novice and experienced users in a wide variety of operational scenarios (including the use of two different video telecommunications protocols), great emphasis was placed on the design and implementation of the custom AMX control system programming. A collaborative effort of touch thirty three (operating system and graphical user interface design) and SAC Software (program coding), the multiple AMX control systems installed in each TCC allow for extensive interconnection of all facilities while maintaining an easy to use TouchPanel format. In addition, each videoconference suite may be interconnected to multiple "far sites" (each using different CODEC operating configurations, if needed) while remaining totally transparent to end users at all sites – providing true cross-format integration without the need for extensive user training.

TELECOMMUNITY CENTERS

FEATURES

- Individual rooms in each facility are custom designed for specific primary function.
- All rooms in each facility may be interconnected in multiple configurations depending on need.
- Dual resolution presentation formats provide exceptional local image quality while allowing necessary down-sampling for transmission of computer images in videoconferencing.
- Fully programmable and instantly recallable videoconferencing system scenarios.
- S-VHS, document camera, multidisc and live sources may be simultaneously viewed and/or transmitted to far sites.
- Extremely "user-friendly" control system design reduces need for extensive operational training, even for novice users.



EQUIPMENT

AUDIO

Yamaha digital programmable mixers
 Atlas/Soundolier ceiling speakers
 TOA amplifiers
 Gentner echo suppressor/cancellers
 Gentner Assistive Listening equipment
 Beyer Dynamic in-ceiling microphones
 Telex wireless microphones
 JVC source devices
 Knox and Nova audio matrix routers
 RDL balanced interfaces
 FSR remote control switches

VIDEO

Sony and Polaroid Video Projectors
 VTEL LC Series CODECs
 Draper electric projection screens
 Extron computer interfaces
 Extron RGB matrix routers
 Knox Chameleon video routers
 Parkervision "CameraMan" cameras
 Sony, Panasonic and JVC source devices
 Sony document cameras
 Multiple AMX control systems
 Toshiba VideoWall systems

TSB RECORDING, INC.

CLIENT

TSB Recording, Inc.
Mr. Tom Wolfenberger
3301 Fountainview,
Suite 210
Houston, TX 77057

FACILITY

TSB Studios
Audio for Video
Post Production Suite



Gary Bankhead Photography 713/861-4130

DESCRIPTION

TSB Recording started life as a small music recording studio in Houston, Texas more than fifteen years ago. Owner/Chief Engineer Tom Wolfenberger, already adept at music recording, slowly branched out into producing audio tracks for the advertising industry. With many local, regional and national awards to their credit, over the years TSB Recording became a successful audio recording facility. Realizing the potential of digital audio in general (and random-access digital editing in particular), Tom decided to meet his clients' requests for him to enter the world of digital audio-for-video post-production.

TSB Studio A is a purpose-built room designed to allow fast and accurate digital audio editing and sound sweetening for the video industry – primarily broadcast television advertising and corporate multi-image presentation. The Dyaxis Digital Editing System allows full audio manipulation including random-access editing to picture, equalization, effects addition, level control and compilation mixing, all entirely in the digital domain. The main audio monitoring system is extremely accurate and powerful, and has enabled the studio to become a popular choice for compact disc mastering. Studio A also has the ability to handle real time remote voice talent recording sessions via ISDN digital audio transfer.

FEATURES

- Totally digital audio environment provides complete creative flexibility.
- Random-access "editing to picture" for fast and accurate placement of audio tracks.
- High-power main audio monitor chain with extended low frequency response.
- Extensive outboard signal processing and special effects equipment.
- Compact, ergonomic studio layout.
- ISDN interface for digitally recording and transmitting audio to/from remote studios.
- Digital and analog source and recording decks allow complete format transfers.
- Large acoustically isolated room for voice and music recording.
- VHS and Umatic video systems with SMPTE time code synchronization.
- 32" large format video monitor.

EQUIPMENT

AUDIO

TAC analog console w/ P&G faders
Dyaxis digital audio editing system
TOC biamped main monitors
JBL nearfield bridge monitors
Bryston ST Series amplifiers
Lexicon 300 digital effects/reverb
Lexicon LXP Series effects units
Aphex compressors
Aphex noise gates
BBE aural exciter
Aphex stereo limiter
Denon CD player
Tascam DAT recorder
Otari analog recorder w/CCTC

Technics turntable
Stanton cartridge
Nakamichi cassette decks
Aphex signal distribution amplifiers
Aphex -10/+4 converters
AKG microphones
ADC UltraPatch patchbays
Mogami audio wiring

VIDEO

Sony Umatic editing deck
Sony VHS deck
Sony 32" control monitor

