

Anchorage Baptist Temple – a blend of live presentation and broadcast operations

June 1, 2005

CHALLENGE

Anchorage Baptist Temple (ABT), a beautiful worship and education facility with a broad reach in both radio and television, required a technical upgrade for its 2000-seat auditorium in Anchorage, Alaska.

Through the leadership of Dr. Jerry Prevo, visionary Senior Pastor, Anchorage Baptist Temple has grown from an average attendance of 300 to over 2200. Dr. Prevo is also the founder and CEO of two radio stations and television station KCFT, Channel 35, broadcasting family programming 24 hours a day.

Dr. Prevo turned to Diversified Systems and Sony for technical guidance in order to streamline the current requirements of the facility while defining a roadmap for future growth. According to Dr. Prevo, "Working with Diversified, R. Orange Engineering and Sony placed us in a position to quickly make a digital transition."

RESOLUTION

ABT had technical requirements that were unique by typical broadcast standards. Diversified Systems engaged Pat Caley, Diversified Systems Senior Project Manager, to thoroughly understand ABT's workflow and vision for the future. Mr. Caley summarized the challenge: "ABT actually produces two simultaneous live shows for separate audiences, coordinated from the same control facility. Attendees in the Temple require church services and graphics projected on large screens in the auditorium while the largely volunteer staff also creates a one-hour television program for local broadcast. Anchorage Baptist had a variety of legacy equipment for inclusion and required a well-documented design that would allow for sensible expansion well into the future within a modest budget."

DESIGN TEAM

Patrick Caley
Systems Engineer/Project Manager

Joe Barth
Chief Engineer

EQUIPMENT LISTS

CAMERAS

- | | | |
|---|------|---|
| 1 | Sony | HDC930 Multi-Format Handheld Camera w/ 22X Lens |
| 5 | Sony | HDC910 Multi-Format Studio Camera W/ 72X lens |
| 6 | Sony | HDCU950 Camera Control Unit w/RCP-751 Remote |
| 1 | Sony | MSU750 Master Set-up panel w/CNU-700 Network Unit |

IRIS CONTROL

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|---|----------|-------------------------------------|
| 2 | Sony | LMD530 5" Color LCD Monitor |
| 2 | Sony | PVM9L2 9" Color Video Monitor |
| 2 | Videotek | TVM821DP Component Waveform Monitor |

VIDEO TAPE RECORDERS AND FRAME SYNCHRONIZERS

- | | | |
|---|-----------|---|
| 4 | Sony | DNW-A75 Betacam SX Editing VTR |
| 2 | Sony | DSR-DR1000 DVCAM Half Rack Video Disk Recorder |
| 2 | Panasonic | DWR-E20 DVD-R |
| 2 | Sony | BVW75 Betacam SP Editing VTR w/Dynamic Tracking |
| 2 | Sony | PVW-2800 Betacam SP Editing VTR |
| 1 | Sony | VO9800 3/4" U-matic VCR |
| 1 | Fortel | TURboTCB2 Time Base Corrector |
| 2 | Hitachi | FX665 VHS Video Cassette Recorder |
| 2 | DPS | 265 Analog Frame Sync |

GRAPHICS & NON-LINEAR

- | | | |
|---|----------|---|
| 1 | Pinnacle | FXDEKO 2 Channel Character Generator w/ FA Keyboard |
| 1 | Pinnacle | TYPPEDEKO Single Channel Character Generator |
| 2 | Sony | CPD520GS 20" VGA Monitors |
| 2 | Media | 100 Compaq EVO Non-Linear Editor |
| 4 | Dell | PAQZ 17" VGA Monitor |

Realizing that the future was clearly on an HDTV platform, Anchorage Baptist purchased (5) Sony HDC-910 High Definition cameras and (1) HDC-930 High Definition handheld camera. At the heart of their new system is a Sony DVS-9000sf switcher equipped with 2.5 M/Es, 17 inputs, 24 outputs, and four channels of DME. Along with the main 2.5 M/E control panel, ABT purchased a second single M/E control panel that shares M/E 2 of the main control panel. This second panel allows them to have a fully functioning M/E for local programming in the auditorium, while the main panel is used for the broadcast program. The flexibility of this system allows content for both local and broadcast audiences to be fed a mix of simultaneous or different material throughout the production.

ABT's legacy infrastructure was fully integrated into the new system. Their existing Sony Betacam SX machines have been augmented by (2) Sony DSR-DR1000 video disk recorders. All the decks are capable of RS-422 control from the DVS-9000sf switcher.

While current requirements mandate the system to be configured in 4:3 for both the local displays and broadcast, this may soon change with plans to move to a 16:9 aspect ratio.

The facility's infrastructure was re-designed as a fully digital environment, utilizing SMPTE fiber optic for camera paths and an implementation of dark fiber for delivery of digital signals to the local displays, allowing for future upgrades to HD production.

Dr. Prevo can be seen daily on television on the "Anchorage Baptist Temple Hour with Dr. Jerry Prevo," and heard daily on his radio program, "Bible Principles to Live By." Learn more at www.ancbt.org.

ROUTER

1	Utah	Utah 200 32 X 32 Analog Video Router
1	Utah	32X32SD-64 32 X 32 SDI Video Router
1	Utah	VO-400 CONV 8-D to A Option for SDI Output Card
1	Utah	VI 400 CONV 8-D to A Option for SDI Input Card
1	Utah	DDS-264/64 64 Port RS-422 Data Router
1	Utah	SC3AC-SYS/RED Control System/Dual Control Cards
3	Utah	CSP16160/8 Full Matrix Control Panel
3	Utah	CSP3014 Single Bus Control Panel

SWITCHER

1	Sony	DVS9000SF SDI Production Switcher w/ DME option
1	Sony	MKS8010 2.5 M/E Control Panel
1	Sony	MKS9011 1 M/E Control Panel
1	Sony	MKS8700 Device Control Unit

MONITOR WALL & CONSOLE

14	Sony	PVM96 9" B/W Monitor
2	Sony	PVM91 9" B/W Monitor
8	Panasonic	WV5410 10" B/W Monitor
2	Sony	PVM1954Q 20" Color Video Monitor
1	Sony	BVM24E1WU 22.5" 16:9 Color Video Monitor
1	Sony	LMD440 4 X 4" LCD Monitor
1	Sony	PVM4B1U 4 X 4" B/W Monitor
1	Tektronix	WFM601A Serial Component Waveform Monitor
1	Tektronix	1740A Analog Waveform/Vector Scope
1	Dorrough	380A 2 Channel Analog Audio Meter

VIDEO TAPE MONITORING

4	Sony	LMD440 4 X 4" LCD Monitor
1	Sony	PVM4B1U 4 X 4" B/W Monitor
1	Tektronix	WFM601A Serial Component Waveform Monitor
1	Tektronix	1740A Analog Waveform/Vector Scope

INTERCOM

1	Telex	ZEUS 24 Station 4-Wire Intercom Matrix
9	Telex	MKP4 Modular 4 Position Key panel
2	Telex	MCS325 Modular Speaker
2	Telex	MCP90-12 12" Microphone Goose Neck

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