

CASE STUDY

The Chapel in Green

BROADCAST-QUALITY VIDEO PRODUCTION INFRASTRUCTURE FOR MODERN WORSHIP EXPERIENCES.

THE CHALLENGE

The Chapel in Green, a thriving church community in Northeast Ohio, had outgrown their existing video production setup. The video ministry needed a dedicated space with professional-grade equipment to deliver broadcast-quality content for weekend services, live streaming, and special events. Their vision required a complete infrastructure overhaul—from cameras to control room to fiber connectivity.

THE SOLUTION

MediaNet AV designed and installed a comprehensive video production ecosystem powered by Blackmagic Design equipment. We built a purpose-designed control room with three operator stations, deployed professional broadcast cameras throughout the sanctuary, and installed 24-strand fiber infrastructure connecting all production elements. The result is a turnkey system that empowers their volunteer team to create compelling visual content.

PROJECT SCOPE

Video Control Room Design

Camera System Installation

Fiber Infrastructure

Production Switching

Signal Distribution

Operator Training

3

OPERATOR STATIONS

40 × 40

VIDEO ROUTER CAPACITY

24

FIBER STRANDS

Video Control Room



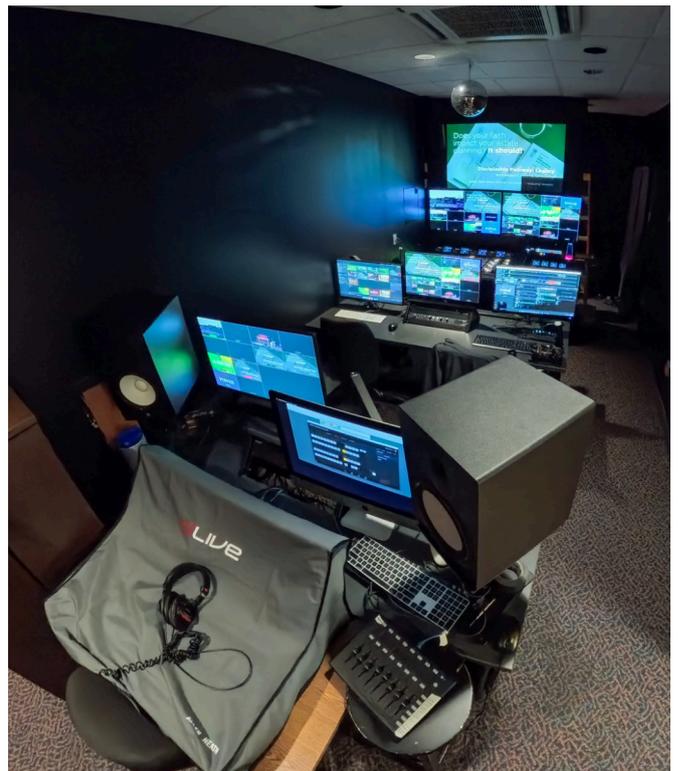
The purpose-built video control room features three dedicated operator stations arranged in an ergonomic layout for extended production sessions.

The room is centered around a Blackmagic ATEM 4 M/E Constellation HD switcher and custom-designed furniture optimized for workflow and collaboration.

A separate rack room houses the Videohub 40×40 12G router and supporting infrastructure, isolating equipment noise from

“From the first walkthrough to final install, MediaNet AV helped push our production technology forward in a way that immediately raised the standard.”

— CHAPEL IN GREEN, VIDEO MINISTRY TEAM



Technical Infrastructure

PRODUCTION SWITCHING

At the heart of the system is a Blackmagic ATEM 4 M/E Constellation HD live production switcher paired with a dedicated 4 M/E Advanced Panel. This broadcast-grade combination delivers four independent mix/effects buses, real-time graphics keying, and seamless transitions across all sources.

SIGNAL ROUTING & DISTRIBUTION

A Blackmagic Videohub 40×40 12G provides zero-latency video routing across the entire facility. Combined with AJA fiber transmitters and receivers on openGear frames, the system delivers pristine signal quality from stage to control room to every display destination in the building.



EQUIPMENT HIGHLIGHTS

ATEM 4 M/E Constellation HD Switcher

ATEM 4 M/E Advanced Panel

Videohub 40×40 12G Router

3× URSA Broadcast G2 Cameras

DeckLink Quad 2 Capture Card

24-Strand SM Fiber Backbone

2× AJA openGear Rackmount Frames

4× AJA Fiber Transmitters (3G-SDI)

4× AJA Fiber Receivers (3G-SDI)

3× Custom Operator Desks

KiPro Recording System

Tally & Intercom Integration

Camera System & Sanctuary



BROADCAST CAMERAS

Three Blackmagic URSA Broadcast G2 cameras with studio viewfinders provide broadcast-quality image capture throughout the sanctuary. Positioned at key vantage points, the cameras cover the full stage width with options for wide, medium, and tight shots. SDI signals travel via fiber infrastructure to the control room, ensuring zero signal degradation over long cable runs.

FIBER INFRASTRUCTURE

A custom 24-strand indoor plenum-rated single-mode fiber backbone connects the stage, FOH position, and control room. AJA fiber transmitters and receivers convert 3G-SDI signals for pristine transport across the facility,



Results & Benefits

The new video production system has transformed The Chapel's ability to deliver professional broadcast-quality content. The dedicated control room provides an optimized environment for operators, enabling complex productions with seamless transitions and real-time graphics integration.

40X40

VIDEO ROUTING CHANNELS

24

FIBER STRANDS INSTALLED

8

BUILDING-WIDE VIDEO FEEDS

OPERATIONAL IMPROVEMENTS

- Centralized camera shading for consistent image quality across all cameras
- Fiber infrastructure eliminates long cable runs and signal degradation
- Custom operator stations reduce fatigue during extended productions
- Integrated tally and intercom systems improve crew communication
- Scalable architecture supports future expansion and technology upgrades
- Intuitive controls enable volunteer operators to produce professional results





Ready to Transform Your Space?

15+

YEARS OF AV EXCELLENCE

Since 2010, MediaNet AV has excelled in audio, video, and lighting solutions for churches, schools, and businesses. We design custom, intuitive systems and provide comprehensive training for seamless operation.

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SCAN TO VIEW OUR WORK