



CASE STUDY

# Christian Healthcare Ministries

24-FIXTURE LED LIGHTING REBUILD DELIVERING WIRELESS DMX AND TOUCHSCREEN CONTROL FOR THE EVENT CENTER.

## THE CHALLENGE

Christian Healthcare Ministries' Barberton event center sees regular use for weekly chapel, internal events, and programming that goes to camera. With staff and volunteer operators running the room week after week, the lighting needed to be reliable, consistent, and easy to operate. After more than two decades, the original rig had aged out of dependable service: fixtures were going dark, circuits were running near their limits, and the room read poorly on camera. The system needed more than another round of lamp swaps.

## THE SOLUTION

Working with CHM's production team, MediaNet AV designed a 24-fixture LED rebuild around the Chauvet Professional Ovation E-160WW, a wireless-DMX balcony system pairing Ovation ellipsoidals with Maverick Storm 2 Profile movers, and a ChamSys QuickQ 20 console. A custom Light Source MegaBatten lowers the front truss eighteen inches to flatten the projection angle and lift the shadowing. Every fixture was addressed and bench-tested at the MNAV warehouse before install.

### PROJECT SCOPE

#### Stage Lighting Package

24 LED Ellipsoidals & 2 Moving Lights

#### Control System

ChamSys QuickQ 20 Console

#### Custom Truss Installation

MegaBatten Lighting Array

#### Wireless DMX System

City Theatrical Multiverse

#### On-Site Services

Setup, Focus & Programming

#### Operator Training

Volunteer Team Support

24

LED FIXTURES INSTALLED

3

WIRELESS DMX ZONES

480 → 40

AMPS, POWER DRAW

# Modernizing the Rig



CHM's event center hosts weekly chapel and internal programming, much of it captured on camera, which makes lighting quality a production concern, not just an aesthetic one. Thomas Beaver, CHM's Video Productions Director, was MediaNet AV's point of contact throughout the project.

The existing rig was well past its service life. Some fixtures were 25-plus years old, roughly a quarter had stopped working, and the 575-to-1000-watt incandescent units drew enough current to leave burn marks on a few twist-lock outlets. The problems were obvious on camera: front light hit the stage at a steep downward angle, creating "raccoon-eye" shadows, while the lack of true backlight and uneven stage coverage left performers visually blending into the background.

Working with Thomas and the CHM team, MediaNet AV proposed a full LED rebuild with two structural changes. A custom Light Source MegaBatten lowers the front fixture position by eighteen inches, bringing the light onto faces at a flatter angle and lifting the shadows. Wireless DMX from each side of the balcony then allowed movers and matched Ovation ellipsoidals to be added without pulling new cable through the architecture.



*“It was absolutely worth the investment. The quality of our lighting for video has improved immensely, and the system is far safer and more efficient — we’ve taken our total power draw from around 480 amps down to about 40.”*

— THOMAS BEAVER, VIDEO PRODUCTIONS DIRECTOR, CHRISTIAN HEALTHCARE MINISTRIES

# The System & Outcomes



## FRONT & BACKLIGHT SYSTEM

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Sixteen Chauvet Professional Ovation E-160WW warm-white LED ellipsoidals hang from the new MegaBatten as the front wash, each on a 36-degree HD lens tube and holding consistent color across all sixteen units. Four more Ovations with 50-degree lenses sit above the stage to provide the backlight the room previously lacked. All twenty address through TR1 power-and-DMX combo cabling, retiring the old stage-pin runs.

16× Ovation E-160WW + 36° HD lens tube (front)

4× Ovation E-160WW + 50° HD lens tube (back)

TR1 power + DMX combo cabling

Safety cable on every hung fixture

## OUTCOMES

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The rebuilt rig delivers consistent coverage front and back, and dropping the front fixtures eighteen inches cleared the raccoon-eye shadows the old angle cast on talent. Moving to LED cut both heat and power: total connected load fell from roughly 480 amps to about 40, and on camera the lighting quality improved markedly.

The safety improvement is just as significant. The original fixtures had overtaxed their circuits to the point of visible damage, a real fire risk in a room full of people. That exposure is now gone: the LED rig runs cool and well within the limits of properly rated circuits.



## BALCONY & WIRELESS CONTROL

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Each side of the balcony carries two Ovation ellipsoidals and one Maverick Storm 2 Profile mover, a 580W LED yoke profile with CMY+CTO color mixing, framing shutters, a prism, and a 10:1 zoom. A City Theatrical Multiverse Node bridges each balcony position to the wired DMX universe, so the QuickQ 20 sees one clean, continuous patch with no exposed cable runs.

4× Ovation E-160WW (2 per balcony side)

2× Maverick Storm 2 Profile movers

3× City Theatrical Multiverse Node Transceiver

1× ChamSys QuickQ 20 console





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