



FOYIL CASE STUDY

EMPOWERING EDUCATION WITH TECHNOLOGY:

Ascend Integrations and Foyil School's \$40,000 Investment in Low Voltage Cabling and Security

AT A GLANCE

CHALLENGES

- Outdated cabling infrastructure caused network disruptions, limiting access to digital learning tools.
- The school needed to enhance campus security through modern surveillance systems.
- Budget constraints posed challenges to implementing large-scale upgrades.

SOLUTIONS

- Designed and installed a scalable low voltage cabling system using high-performance Fiber Optic cables.
- Implemented enterprise level surveillance solutions featuring AI analytics to ensure safety across campus.
- Donated \$20,000 for the project, which was matched by the school for a total budget of \$40,000.
- Delivered a seamless and future-proof integration of network and security systems.
- Equipment Fully Adheres to National Defense Authorization Act (NDAA)

At Ascend, we take pride in delivering transformative solutions that empower educational institutions like Foyil School. From modernizing connectivity to enhancing security, we're committed to making a lasting impact. Our \$20,000 donation underscores our dedication to community investment and innovation. Let us help your organization achieve its technology and safety goals.

ABBY NESHEIM CEO

OBJECTIVES

Modernize the school's connectivity and enhance campus security through the installation of a structured low voltage cabling system and state-of-the-art AI surveillance. By addressing outdated infrastructure and providing scalable solutions, the project aimed to achieve connectivity to remote buildings through use of PtP technology, support future technology integrations, and ensure a safer environment for students and staff.

EXECUTIVE SUMMARY

Foyil School partnered with Ascend to strengthen its technology infrastructure, address connectivity challenges and modernize campus security. Faced with a limited budget and over 20 structures needing coverage, Ascend donated \$20,000 toward the project, with the school matching the contribution in order to provide a solution without compromise. In addition to installing a robust low voltage cabling system, Ascend implemented a state-of-the-art security camera network to ensure the safety of students and staff. This case study highlights how this collaboration transformed the school's technological capabilities and revitalized outdated surveillance equipment.

BENEFITS

Measurable Outcomes:

- \$40,000 total investment enabled the installation of cutting-edge cabling and security systems without compromising quality or coverage.
- Worked outside of school hours and maintained 0 downtime to school functions.
- Utilized Ascend's proven AI technologies such as;
 - facial recognition, active threat deterrence, fight/fire/gunshot/vape detection.
- Improved campus coverage with additional modern IP cameras equipped with 24/7 recording, 5MP resolution and scheduled mobile notifications.
- Scalable enterprise solutions ready to support future technological and security upgrades.

The newly installed cabling system eliminated frequent connectivity issues, ensuring seamless access to digital tools for teachers and students. Additionally, the security camera network provided enhanced surveillance, creating a safer environment for all. "IT infrastructure, or security systems, our team is ready to tackle your next project.



COMPREHENSIVE GYMNASIUM MONITORING WITH ADVANCED 360° SURVEILLANCE

At Ascend, we bring years of experience in designing and implementing sophisticated security solutions tailored to the unique needs of athletic facilities. For your gymnasium, we installed an 8MP High-Resolution 360° Camera to provide full, seamless coverage without the need for multiple expensive cameras or compromising image quality during critical moments. This camera ensures that the entire facility is monitored with no blind spots, all while delivering exceptional clarity.

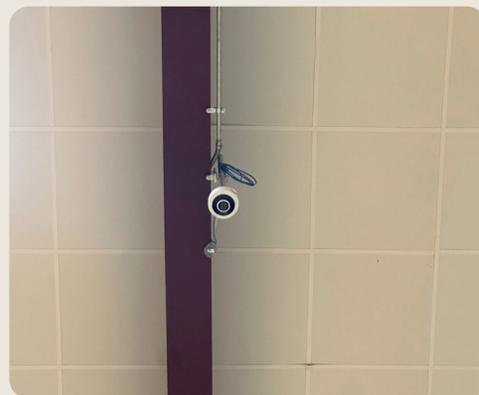
With 8MP resolution, operators can zoom in with precision, maintaining sharp image quality that is crucial for tasks such as identifying individuals or monitoring critical events. The camera is mounted with expertise to achieve the highest quality image, even at significant heights, and under the challenging conditions often present in athletic environments. Whether dealing with high ceilings, the movement of athletes, or varying light levels, we use the right techniques and equipment to ensure optimal camera placement and performance.

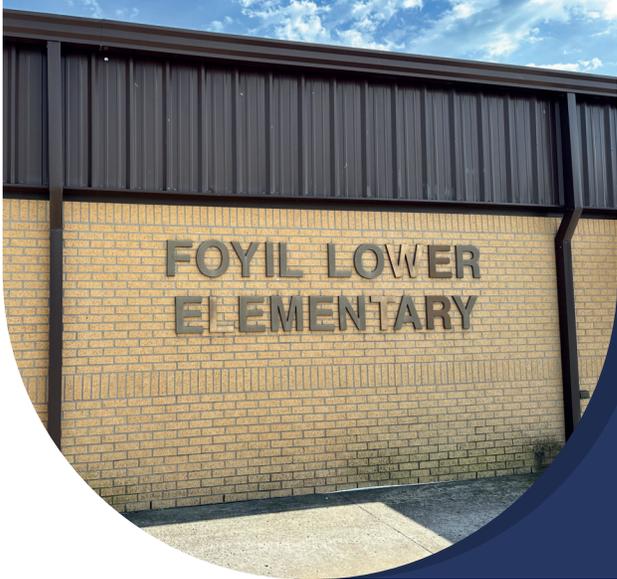
Our team is highly trained in working safely within these environments, ensuring that high-risk surfaces—like polished basketball courts—are not damaged during installation. We use specialized equipment and take extra care to avoid any impact on flooring or other sensitive surfaces, ensuring your space remains in pristine condition.

To further enhance security, the 360° camera is equipped with cutting-edge AI technology, enabling advanced features such as:

- **Object Detection:** Automatically identifies and classifies objects within the gymnasium.
- **Facial Recognition:** Quickly recognizes individuals to enhance security and streamline identification.
- **Unusual Activity Detection:** Flags any suspicious or abnormal behavior for immediate response.
- **Object Tracking:** Tracks specific individuals or objects across the gym, offering real-time monitoring.
- **Occupancy Counting:** Tracks the number of people in the gym to ensure safety compliance and optimize crowd control.

With Ascend, you get more than just a security system – you get the assurance that your gymnasium is protected by a solution designed for performance, safety, and lasting reliability.





ASCEND: TAILORED SECURITY SOLUTIONS BUILT FOR TOUGH ENVIRONMENTS

At Ascend, we specialize in designing and implementing cutting-edge security solutions that are built to endure even the harshest conditions and the demands of an evolving technological landscape. Our systems are engineered with enterprise-grade cameras featuring vandal-proof metal housing and an IP67 rating, ensuring they stand strong against the wear and tear of both students and the elements.

Whether you're protecting expansive athletic fields, school grounds, or high-traffic areas, our solutions are designed to withstand extreme weather conditions – from heavy rain to intense heat – and continue performing reliably year-round. With our rugged, long-lasting security technology, your campus will always stay secure, no matter the challenge.



NEW CAMERA



OLD CAMERA

ENHANCE YOUR SCHOOL'S ATHLETIC FIELD SECURITY WITH CUTTING-EDGE SURVEILLANCE



As schools continue to prioritize safety and security, protecting athletic fields is just as important as safeguarding other campus areas. Our advanced surveillance solutions provide a powerful, comprehensive tool to ensure that your athletic facilities remain secure and well-monitored.

To tackle the demands of this expansive outdoor environment, Ascend designed this security solution to include strategically placed cameras capturing ultra-clear, high-resolution footage, that offers a full 180° wide-angle view to cover expansive areas such as sports fields, parking lots, and stadiums. With its 4K resolution, you can rely on sharp, detailed images for better identification and surveillance, ensuring no corner is left unmonitored.

But our commitment to security doesn't stop at top-tier hardware – we integrate the latest AI-powered analytics to enhance your system's functionality. Our surveillance solutions utilize sophisticated AI analytics and reporting software that can automatically detect and track suspicious activity, alert security personnel in real-time, and provide comprehensive reports for further review.

With this combination of high-resolution cameras and powerful AI-driven analytics, your school's athletic fields will be safer and better protected, with proactive surveillance that responds to potential risks before they become serious threats.

Partner with us today to secure your school's athletic fields and ensure the safety of students, athletes, and visitors alike.



ADDITIONAL SERVICES

Access Control, WIFI, PA System/Alerting, MSP services, VOIP phone solutions, Bugler alarm, underground fiber and conduit instillation, AV/Technology Integration

JOBSITE PHOTOS

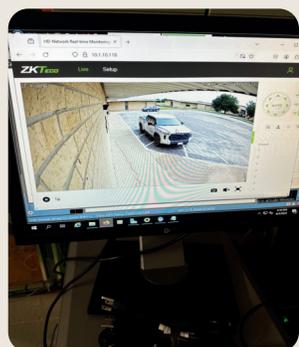
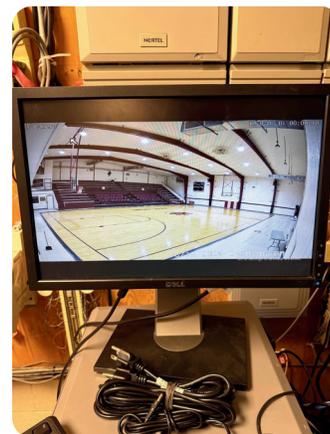


FIBER OPTIC CABLING

Modernize the school's connectivity and enhance campus security through the installation of a structured low voltage cabling system and state-of-the-art security cameras.

GYMNASIUM CABLING

Ascend stands apart through its expertise in interconnecting structured cabling solutions of all sizes and types, including those that meet the unique needs of gymnasium environments. Whether it's installing armored pathways like EMT conduit or configuring complex networks, we ensure that every cable is securely and neatly installed, minimizing disruption and maximizing the longevity of your system. Our attention to detail ensures not only the safety of students but also the long-term reliability and durability of your surveillance solution.



ZKTECO PARTNER

ZKTeco, a global leader in advanced biometric and security solutions, specializes in access control and surveillance technologies. As a proud ZKTeco partner, Ascend Integrations utilized their innovative products to deliver reliable and secure connectivity and surveillance for Foyil School.