



Building Delivery System Simplifies Construction Through Manufacturing



THE SITUATION

BLOX is at the cutting edge of construction, using a new method called Design, Manufacture, and Construct (DMC). BLOX offers a building delivery system that leverages manufacturing to simplify the construction phase. BLOX's cross-functional teams of architects, manufacturers, and tradesmen design and manufacture the modules in their Bessemer, AL plant. The facility has over a million square feet of production space and includes an on-site intermodal that connects them to every rail, truck, and port in North America. Working with an extensive network of general contractors who snap the BLOX modular systems into place, the BLOX team can quickly complete multiple construction projects across the nation.

THE CHALLENGE

BLOX applies DMC manufacturing techniques to produce pre-built medical modules such as hospital bathrooms, foot and headwalls, MEP racks, patient rooms, exam rooms, trauma rooms and fully equipped Free Standing Emergency departments. These rooms are then injected into the construction of hospitals and various healthcare facilities around the country, ensuring a quicker and more efficient build.

In order to monitor the progress of their modules from factory floor to numerous construction sites throughout the country, BLOX sought out affordable project cameras that were easy to set-up and relocate, were remotely managed and did not require on-site power. BLOX also required versatile time-lapse video tools.

THE SOLUTION

After vetting several options, BLOX selected Sensera Systems for their robust, low-cost construction camera solutions for their fast-moving projects. Sensera was able to provide BLOX with the cameras they needed to monitor their projects from start to finish—from the production lines in their factory in Bessemer, AL to the numerous

construction sites spread throughout the country—the BLOX team has the ability to monitor a project's progress in real-time even when they aren't on-site.

THE BENEFITS

- **Complete end-to-end solution** Camera system, 4G LTE/WiFi connectivity, and Cloud-hosted servers and software all in one complete solution.
- **Solar-powered, LiFePo4 Batteries & AC Power** No on-site power required; however, all Sensera camera systems come standard with all three power options. *Cameras can run on battery power for up to 5 days (up to 10 days on XL models).*
- **Real-time, remote monitoring** Ensure productivity and communications even when you can't be on-site.

"We chose Sensera's cameras because of their capabilities, their simple user interface, and high-quality time-lapse creation. Not only that, we really enjoy how small, portable, and easy these cameras are to set up, which means moving them from project-to-project is no problem. Plus their technical support is great."

—Nate Renfro, Project Manager, BLOX

THE PRODUCT

Sensera [MC26](#) and [MC78](#) cameras. The MC26 entry level monitoring and time-lapse camera is designed for short-cycle projects and jobsites with a smaller footprint. The MC78 full-featured camera produces 8MP images with live streaming and DVR edge recording for more extensive projects. Sensera's SiteCloud SW and service integrates with most BIM software, which allows for streamlined work-flow in Autodesk BIM 360 and PlanGrid.