


Construction Progress Cameras Keep All Stakeholders Informed & Engaged

SENSERA SYSTEMS

THE SITUATION

Denver Water is a responsible and proud steward of Colorado's most treasured natural resource. Sustainably providing high-quality water from Colorado's snowmelt and watersheds to 1.4 million people in the city and county of Denver and surrounding suburbs. Established in 1918 as a non-political municipal agency, independent of city government, Denver Water is Colorado's oldest and largest water utility.

THE CHALLENGE

In 2016, Denver Water began its innovative Operations Complex Redevelopment Project at 1600 W. 12th Ave. in Denver, CO. The 34.6 acre campus will include equipment shops, fleet maintenance warehouses, space for pipe and materials storage, trade buildings, as well as, Denver Water's administration building that houses 600 employees. Mortenson Construction was selected as the general contractor for the project, which is expected to be completed in late 2019.

Sustainability is a key factor in the Redevelopment Project as the complex has been designed to incorporate LEED certification and educational demonstrations of net zero energy and leading-edge concepts around the management of all water sources.

As a public utility agency, transparency with stakeholders was of key concern. The Denver Water team sought a camera solution that would offer simple sharing of real-time project status with state and local officials, with Mortenson Construction and its trade partners, with its employees and with Denver Water customers.

THE SOLUTION

Denver Water selected Sensera Systems for an end-to-end camera solution to provide cost-effective, seamless, and transparent project monitoring and progress tracking. "We were looking for a cost-effective site camera that provided a flexible public page and sharing feature to keep all our stakeholders engaged in the project. Sensera Systems Cameras offered time-lapse, LiveView, recording and video streaming. The fact that they are solar powered and wireless allows us to move the cameras as this large project progresses and simplifies installation and lowers our costs," said Mark Thomas, Sr. Infrastructure Technician, Denver Water

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.

> *"The cameras offered a wide range of capabilities, including time-lapse. The public URL feature made it very easy for us to share real-time progress with stakeholders."*
>
> — Mark Thomas, Sr. Infrastructure Technician, Denver Water

THE PRODUCT

Sensera MC78 (previously MC68) cameras. 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.

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