



CLIENT

Samastipur, a city in Bihar, India, is home to many colleges and universities, requiring robust surveillance for the police and traffic departments.

CHALLENGE

The biggest challenge for this city and its police department and other agencies is achieving full situational awareness of the many roadways and thoroughfares.

SOLUTION

Oncam worked with integrator DAAAM Security System Pvt Ltd to install four Evolution 180 Outdoor cameras in various strategic locations through Samstipur.

RESULTS

The implementation of Oncam cameras has upgraded the city's security surveillance, helping the police department monitor major thoroughways and ensuring the safety and security of its people.

Samastipur Achieves a Safer City with Oncam's Evolution 180 Range

Monitoring traffic flow at busy roadways and thoroughfares in busy cities such as Samstipur is a priority. Its police department opts for state of the art technology for effective and efficient surveillance.

Samastipur, a city in Bihar, India, encompasses 2,905 square kilometers and is situated at the banks of the Budhi Gandak River. It serves as the headquarters of the Samastipur district, which is one of 38 districts of Bihar in India, with a population of more than 4.2 million people.

Samastipur is a busy city bustling with cars and activity, requiring robust surveillance for the police and traffic departments to ensure comprehensive safety.

For many years, the city relied on outdoor traditional, fixed, narrow field-of-view (FOV) cameras to cover major highways and intersections and provide a bird's eye view of the flow of traffic, as well as video data for investigative purposes.

"We wanted wide-angle cameras that can capture the entire four-lane highway," said Harpreet Kaur, Senior Superintendent of Police, Samastipur Police. "With narrow FOV cameras, we had to use multiple cameras to fully cover the area, which couldn't reproduce video evidence of incidents as we needed it."

Samastipur worked with integrator DAAAM Security System Pvt Ltd to update its surveillance camera solutions, and the team recommended the

Oncam Evolution 180 Outdoor camera. The integrator partner installed four Evolution 180 Outdoor cameras in various strategic locations to capture two major traffic junctions and two major highways that bypass the city. The cameras are part of a wider system of cameras provided by some of Oncam's strategic alliance partners that work seamlessly together to integrate critical video data and transmit information back to Samastipur Police.

The Evolution 180 Outdoor camera encompasses the innovative 6MP Panoramic+ image, equipped with Oncam's Angle Compensation Technology, which provide adaptive dewarping of a 180-degree image. The true day/night functionality allows images to be produced in all lighting conditions, serving the transportation and Safe City focus areas in Samastipur. Both the camera and lens are also optimized to give customers more pixels on target than any other panoramic camera, ultimately enhancing security for Samastipur Police by increasing the ability to locate potential threats or vulnerabilities.

One of the most unique characteristics of the Evolution 180 Outdoor is the design of the

Providing an oversight of the city

“With 180-degree cameras from Oncam, traffic monitoring has become easier and post-event analysis is possible.”

Harpreet Kaur
Senior Superintendent of Police
Samastipur Police



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enclosure that reflects the function of the device.

The model holds an IP68 rating for submersion, as well as an IP69K rating against water and dust ingress from harsh environments.

“We chose the Evolution 180 Outdoor camera because of its IP69K rating and its ability to seamlessly collect video data – even in extreme weather,” said Devendra Jha, Project Director Samastipur Safe City, Rampion Advertising and Consultancy. “The angle of view of the camera is also very high, allowing us to see more of the scene and zoom into areas of interest. The pixel density is also greater than the cameras we had in place, giving us a better resolution picture to see problem areas more clearly.”

Additionally, its IK10+ rating further enhances the camera’s ruggedness against impact protection. This helps protect the camera and the data it’s collecting from the elements, which ensures maximum uptime for the cameras, since the city’s police department relies on the incoming video data to help investigate incidents and monitor traffic flow and congestion.

In addition to a user-friendly experience for the installer, the Evolution 180 Outdoor is ONVIF Profile S compliant, adding integration flexibility with leading video management systems, like the city’s Milestone VMS. “Not only does Oncam specialize in 180- and 360-degree cameras, but their products also have an open platform that is easily integrated with a variety of other technology, which was important

to us,” Jha said.

The cameras that oversee the major thoroughways in Samastipur are monitored by the police department, where they use the footage for crime prevention and tracking. “The video helps us to effectively provide oversight of the city around the clock, ensuring the safety and security of people using these roadways,” Ranjan said. “With 180-degree cameras from Oncam, traffic monitoring has become easier and post-event analysis is possible.”

Operators are also more efficient with the new surveillance cameras, as there are fewer feeds to watch on a regular basis. “This allows us to increase our operator’s effectiveness in monitoring,” Ranjan said.

The Oncam technology also excels at providing low-light performance at a high megapixel, giving the police department a clearer picture even in the middle of the night. “The Evolution 180 is a true day/night camera, providing full situational awareness of a scene 24 hours a day,” Jha said.

As the city of Samastipur continues to grow and congestion becomes an even bigger issue, it’s important that the police department looks for innovative technology that is reliable and scalable. Oncam’s 180-degree camera range allows operators to clearly see a situation at all times, providing Samastipur Police with the relevant information to investigate an incident, ultimately bringing the safety and security of residents to the forefront.



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