

An aerial photograph of the Florida Keys Overseas Highway, a long, narrow strip of land connecting the mainland to the Florida Keys. The road is a two-lane asphalt highway with a yellow center line, running parallel to a concrete barrier wall. The surrounding water is a vibrant turquoise color. In the distance, more keys are visible under a bright, slightly cloudy sky.

Case Study

# Advanced Surveillance Solutions for Florida Keys COAST Project

The Florida Keys rely on a single highway as their vital link to the mainland. To enhance safety and visibility, the Florida Department of Transportation launched the COAST (Connecting Overseas to Advance Safe Travel) Project—providing a durable, cost-effective monitoring solution designed to meet FDOT's high standards.



# Challenge

## Unstable Wireless Network

FDOT's communications in Monroe County depend entirely on wireless connectivity. Limited bandwidth and inconsistent performance made reliable remote integration and testing extremely difficult.

## Operational Complexity

With network delays, every keystroke or system command became a potential point of failure, especially during subsystem and system tests.

## Harsh Environmental Conditions

Surrounded by saltwater and exposed to extreme heat, humidity, dust, and tropical storms, equipment needed to endure some of the harshest conditions in the U.S.

## Budget Discipline

FDOT required maximum coverage and safety enhancement while ensuring the project stayed within budget.

# Solutions

## Ease of Use & Network Efficiency

Our camera platform was selected for its intuitive GUI, which minimized keystrokes and streamlined testing. This was critical in a low bandwidth environment, where reducing input commands significantly lowered the risk of failure.

## Durability in Harsh Conditions

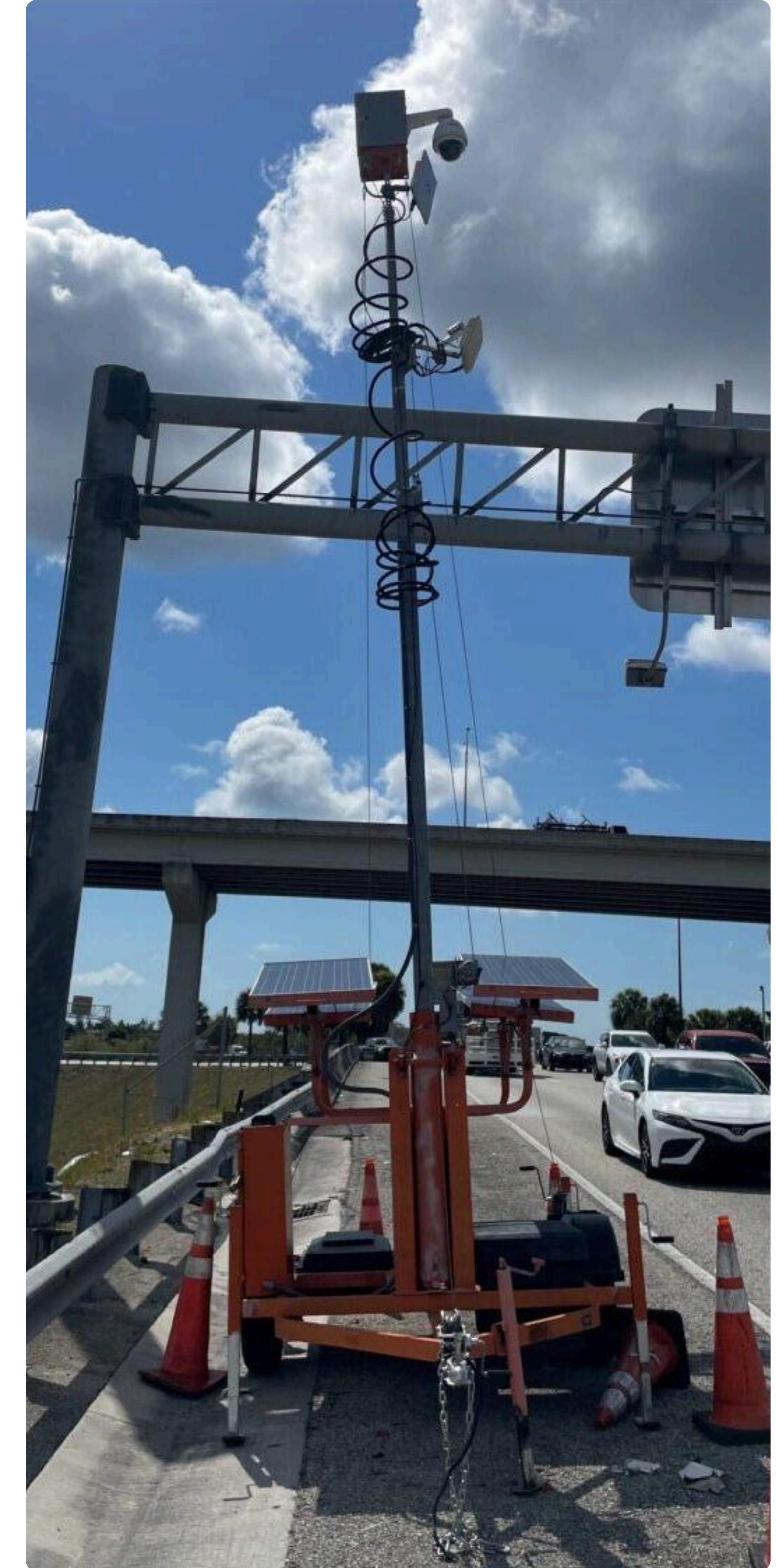
All deployed equipment was chosen specifically to resist salt exposure, high temperatures, dust, and storm conditions. This ensured continuous, reliable operation with reduced maintenance requirements.

## Easy Physical Installation

The cameras were designed for straightforward physical setup, which reduced installation time, minimized labor costs, and accelerated deployment across the project.

## Strategic, Cost-Effective Coverage

By deploying the right camera in each zone, FDOT achieved maximum coverage without unnecessary overspending. This balance of performance and efficiency ensured that safety goals were met while adhering to budget constraints.





"The project met all our success metrics — full compliance, on-budget delivery, and optimal surveillance in one of the country's most complex environments. It strengthened roadway safety in Monroe County. We chose this solution because it delivered value first — reliability, durability, ease of use, and cost control — with technology enabling, not driving, the outcome."

Brandon Boyd  
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